SIMULATIONiQ™ Enterprise

Scores and Reports

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Scores & Reports Overview

The SIMULATIONiQ Scores and Reports module enables your Administrators, Educators or any customized role that has access to the Scores and Reports module, the ability to generate reports from evaluations, scores, performance, surveys, and center/inventory usage reports.

Reports can be generated in either .pdf or MS Excel formats, where all of the features of Excel can be used. Of course, data can only be generated based upon the amount of data entered into the system.

Generated reports can be printed, saved, and scheduled to be delivered to recipients. Report notifications appear in the Message section of the recipient's Dashboard.

This contains links to the following appendices:

Appendix A – Types of Reports

Appendix B – Other (Admin) Reports

Appendix C – Data Grid Reports

Appendix D – List Reports

Appendix E – Statistical Terms

Appendix F – Weighted Mean Scores

Appendix G – Report Parameters and Report Entities

Appendix H – Creating a Pivot Table in MS Excel with Report Data

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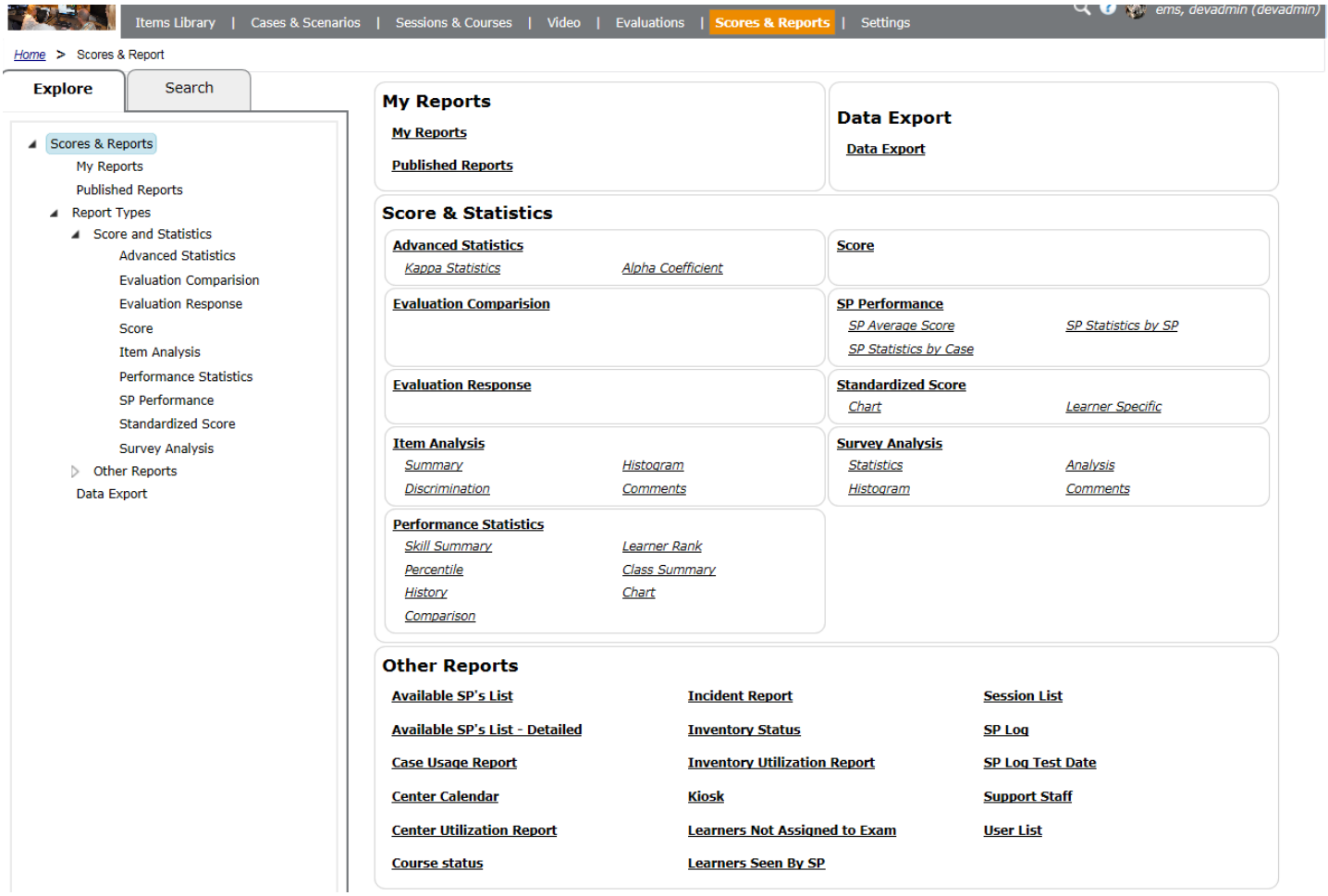

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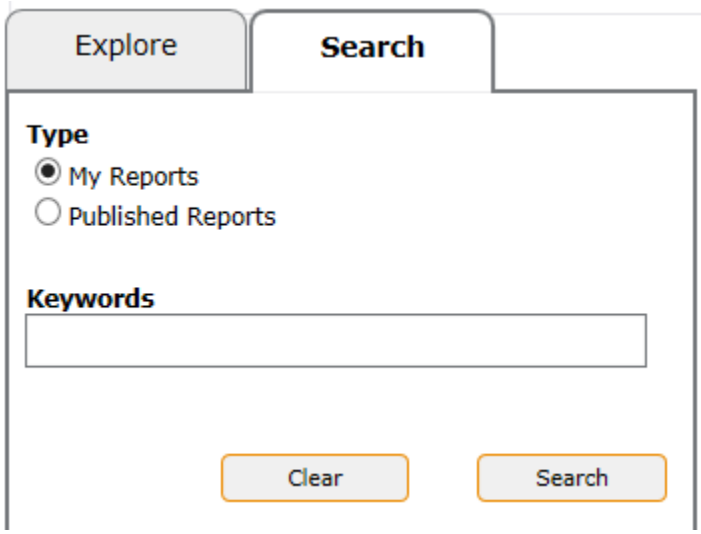
Search Tab



Search from either the **My Reports** or **Published reports** reporting categories. Enter any keywords at the text field to narrow your search; you can also select Active or Expired reports by clicking the applicable checkbox. When you have finished populating your search criteria, click **Search** to populate the landing page grid.

Reporting Parameters

There are two parameters in SIMULATIONiQ Enterprise **Settings** pertaining to **Scores and Reports**; they are as follows:

- Calculate scores and statistics up to the number of decimals defined.
- Number of decimals to display in score and statistical reports. Valid values 0 to 2. Exception: 4 decimals for point-bi-serial, kappa and alpha reports.

These are defined by your EMS Support Administrator or your site administrator. For more information, please consult your Settings documentation.

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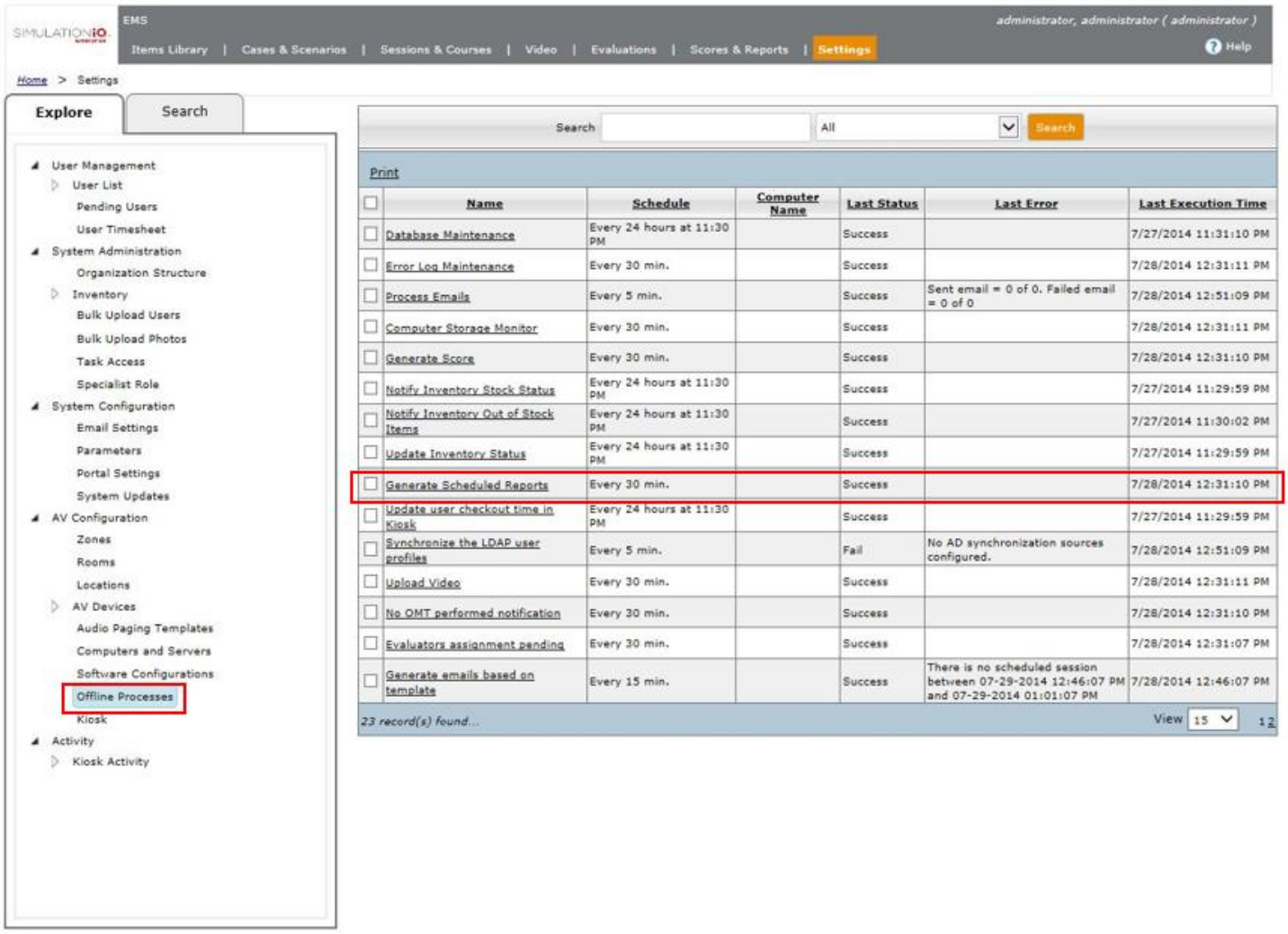
Offline Processes (Reporting)

Before using SIMULATIONiQ Enterprise's Scores and Reports functionality, your EMS Support Administrator or your site administrator should check Offline Processes in **Settings** to be sure that reporting services are functioning properly. The process that generates published reports appears below.



Name	Schedule	Computer Name	Last Status	Last Error	Last Execution Time
Database Maintenance	Every 24 hours at 11:30 PM		Success		7/27/2014 11:31:10 PM
Error Log Maintenance	Every 30 min.		Success		7/28/2014 12:31:11 PM
Process Emails	Every 5 min.		Success	Sent email = 0 of 0. Failed email = 0 of 0	7/28/2014 12:51:09 PM
Computer Storage Monitor	Every 30 min.		Success		7/28/2014 12:31:11 PM
Generate Score	Every 30 min.		Success		7/28/2014 12:31:10 PM
Notify Inventory Stock Status	Every 24 hours at 11:30 PM		Success		7/27/2014 11:29:59 PM
Notify Inventory Out of Stock Items	Every 24 hours at 11:30 PM		Success		7/27/2014 11:30:02 PM
Update Inventory Status	Every 24 hours at 11:30 PM		Success		7/27/2014 11:29:59 PM
Generate Scheduled Reports	Every 30 min.		Success		7/28/2014 12:31:10 PM
Update user checkout time in Kiosk	Every 24 hours at 11:30 PM		Success		7/27/2014 11:29:59 PM
Synchronize the LDAP user profiles	Every 5 min.		Fail	No AD synchronization sources configured.	7/28/2014 12:51:09 PM
Upload Video	Every 30 min.		Success		7/28/2014 12:31:11 PM
No OMT performed notification	Every 30 min.		Success		7/28/2014 12:31:10 PM
Evaluators assignment pending	Every 30 min.		Success		7/28/2014 12:31:07 PM
Generate emails based on template	Every 15 min.		Success	There is no scheduled session between 07-29-2014 12:46:07 PM and 07-29-2014 01:01:07 PM	7/28/2014 12:46:07 PM

These are defined by your EMS Support Administrator or your site administrator. For more information, please consult your Settings documentation. If the **Last Status** for this process does not show Success (the same way it appears in the grid), please contact EMS Client Support.

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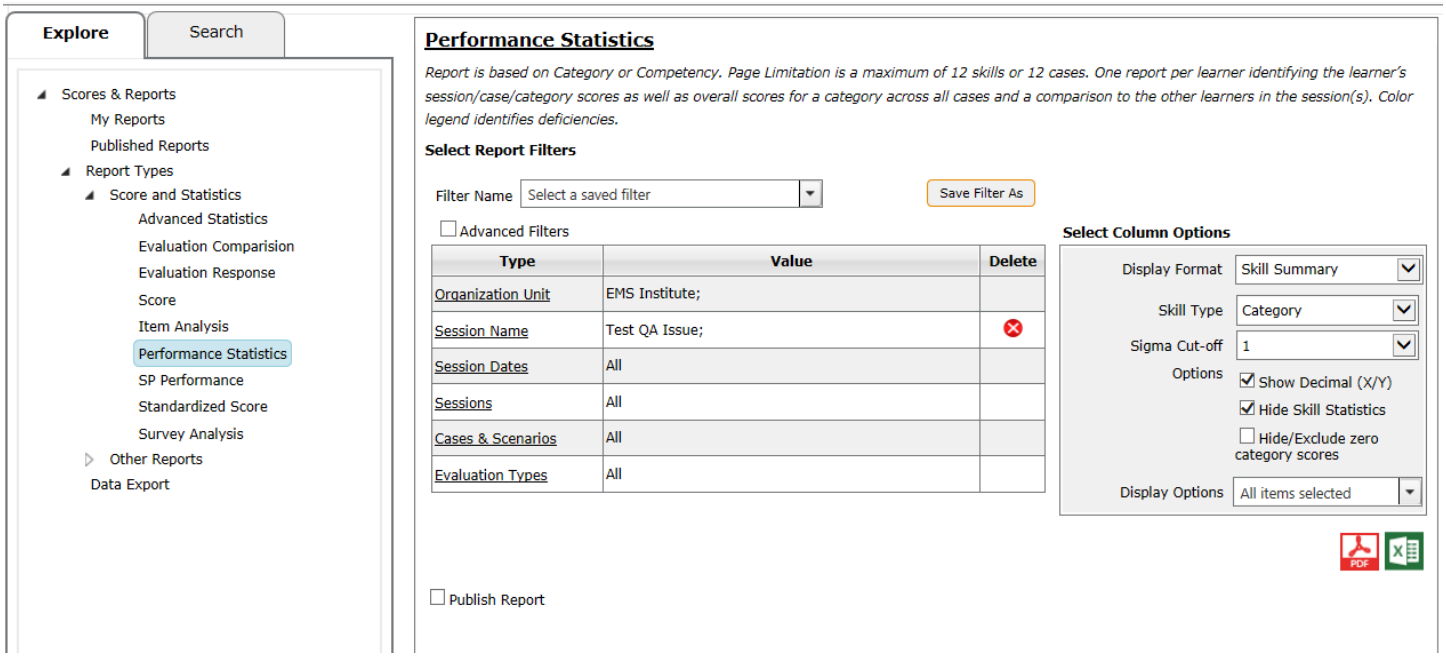
Scores and Reports Workflow

Select Report

Click **Scores & Reports.** All reports are alphabetized and hyperlinked on the Scores & Reports landing page. A description appears with each report.

My Reports • This displays the reports the administrator publishes for the logged-in user.	Scores & Statistics • Generate and publish score and statistical reports.
Published Reports • This displays completed or pending reports that have been scheduled for distribution to assigned recipients.	Other Reports • Generate and publish reports other than score-based or statistical-based reports, such as inventory and center utilization, SP and learner reports, among others.
Data Export • Generate raw data and export scores.	

Select Report Filters



1. Click desired report from the **Score & Reports** landing page.
2. Select the desired report filters:

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From the **Filter Name** field, select an existing filter and then click the icon to edit the filter.
Or
Select the desired filters from the grid and then click **Save Filter As** to create a new filter.

3. Click **Advanced Filters** to display more filters. See **Filters** below for more information about selecting your search criteria.
4. Click the **Publish Report** checkbox to distribute the report to Learners, SPs and/or Educators (more information follows in the next topic).

Filters

Selecting Your Search Criteria

Filter your search criteria: Define your desired search criteria by clicking on any one of the hyperlinks located in the **Type** column of the **Filter** grid.

Filter Column Tips:

- One or more filters can be selected.
- Start with Session Name and/or Date.
- Work filter selections from top to bottom.
- The more filters selected, the narrower the data results generated.
- If a filter has not been selected for a particular Type, then *all* data will be generated, meaning a broad net of all data that applies to that filter will be included in the search criteria.
- Select the filter type hyperlink **under the Type column**. In the next window that opens, select the Filter type in the drop down menu. The window will change according to the **Filter Item**.
- Click **Save** to continue to select more filters, or click **Save & Close** to save your selection and close the window. Here is a sample of the Session Name window:

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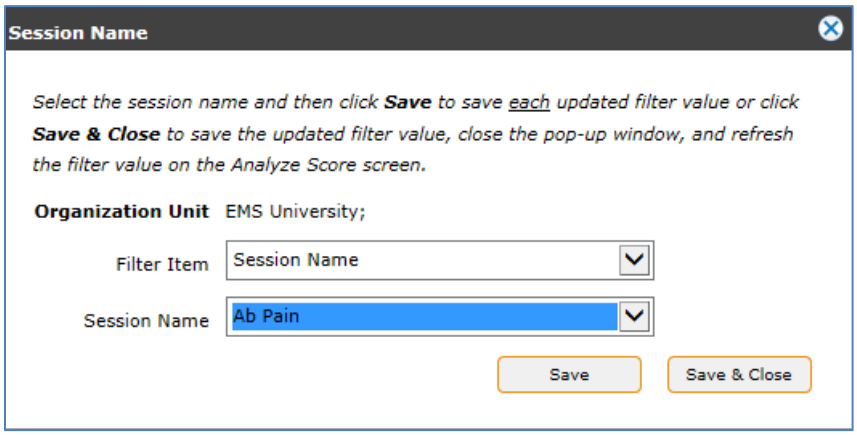

Search Filter Types

Organization Unit: Select the main organization (institute) or a particular department within your organization.

Session Name: Select the Session. Using this filter will display all data related to the session, including the various cases or scenarios that were scheduled in that session.

Session Dates/Sessions: Select a date range in the *From* and *To* calendar fields. This will display all sessions within that date range. If the Session Name has been selected, the data will display all the dates within that range in which that particular session occurred. If a Session Name has not been selected, it will give you data of all Sessions that occurred within the date range.

Cases & Scenarios: Use this filter to define the search criteria by case or scenario. When using this filter in conjunction with Session Name or Session date, the data generated will display the cases and scenarios that apply within those filters.

Evaluation Type: Reports can be generated to display only selected evaluation types. For example: Performance Assessment. Pre-Encounter, Post-Encounter, Survey.

Category Groups: Category Groups are defined in the Items Library task group. If your session has utilized categories within Category Groups, and you wish to generate data or run a report based on a Category Group, then use this filter and select the name of the Category Group.

Competencies: To generate data or run a report based on Competencies, choose this filter and select the Competency. Competencies are created in Items Library, and then associated with a case's Performance Assessment questions in Cases & Scenarios > Competencies.

Categories: If you wish to extract data on a particular category, choose this filter and select the Category.

Evaluator: Select a particular evaluator to display data based only on that evaluator.

Learner Group: Data and Reports can be generated per learner group by choosing the learner group name.

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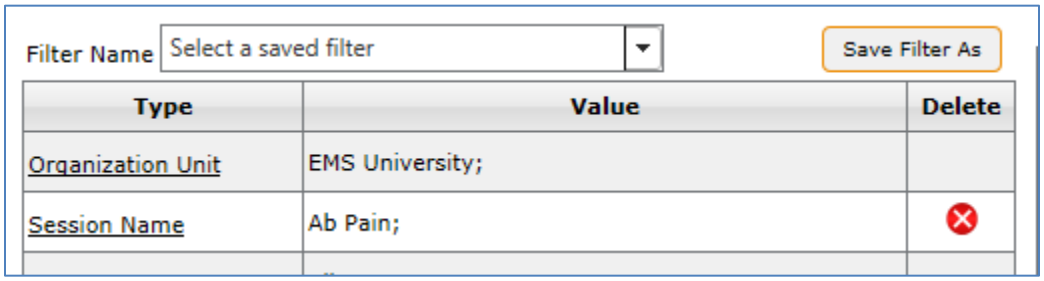
Graduation Year: Data can be generated according to a learner Grad Year, if a Grad Year is entered in the learners' Profile page. Choose the Grad Year of the Learner(s) in the system in order to generate that data.

Learner: Data and Reports can be generated per learner by choosing the learner name.

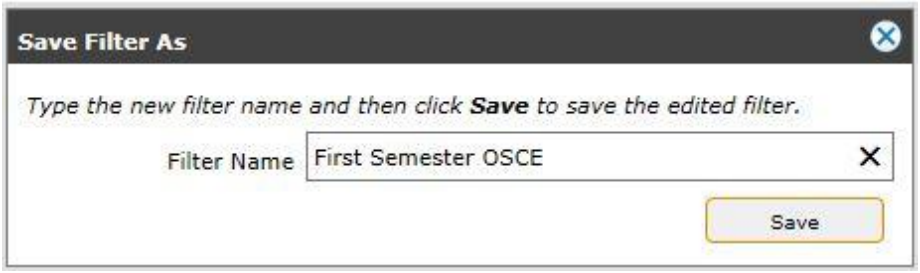
Save Your Search Filters

After defining your Search Filters, they can be saved to allow you to easily repopulate the Search Filters by simply selecting it.

1. Define your Search Criteria in the column.
2. Click the **Save Filter As** button.



3. Name the filter
4. Click **Save**.



Procedural details on each of the filter types follows:

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Organization Unit

A facility and its divisions are known as the Organization Structure. Divisions can be made within this hierarchical structure. These divisions are referred to as units. Your application is delivered with one parent Organizational Unit within the structure, which is listed at the top level of the Organization Structure.

Organization Unit members:

Each division will have its members. Any organization unit can have three different types of members:

- Administrator(s);
- Members
- Learner Group (if a Learner Group is defined for that unit).

Once the Organizational Structure is defined, learner groups and user accounts can be associated with one or more levels within the structure. Please consult your Settings documentation for more information.

Select the **Organization Unit** data type, and the following dialogs appear:

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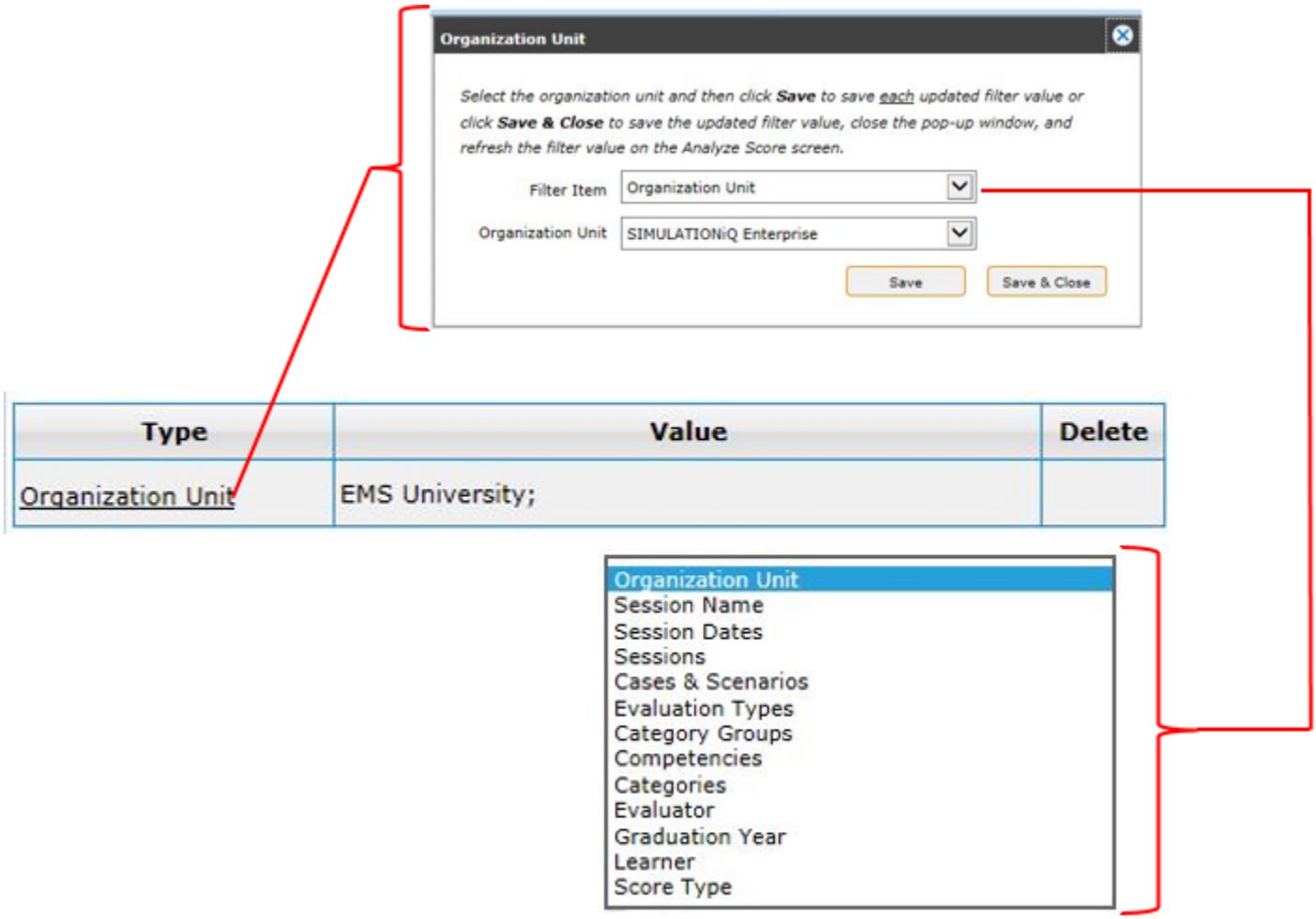

Note: The Filter Item selections appear for each data type where filter item selection is allowed.

Select the **Organization Unit** data type (at the **Filter Item** field) and the Organization Unit name from the drop-down lists. Press **Save** to retain information on this data type and select another data type to include in your filter. Press **Save & Close** to retain your selections and exit the dialog.

Note: You cannot delete an Organization Unit selection at the grid; EMS Institute is the default.

Session Name

Select the **Session Name** data type, and the following dialog appears:

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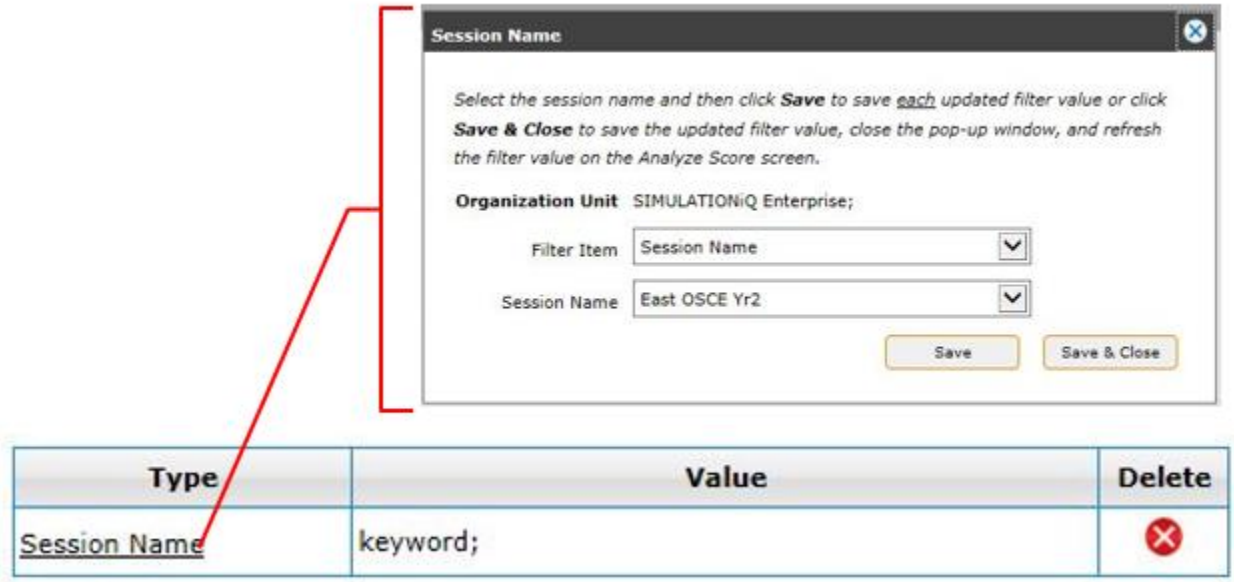

The Organization Unit data type selection is included in your filter details; this helps you to narrow your search results.

Select the **Session Name** data type (at the **Filter Item** field) and the name at the **Session Name** data type field. Press **Save** to retain information on this data type and select another data type to include in your filter (the Session Name appears in the grid; press **Delete** to clear the grid and make another selection). Press **Save & Close** to retain your selections and exit the dialog.

Session Dates

Select the **Session Dates** data type, and the following dialogs appear:

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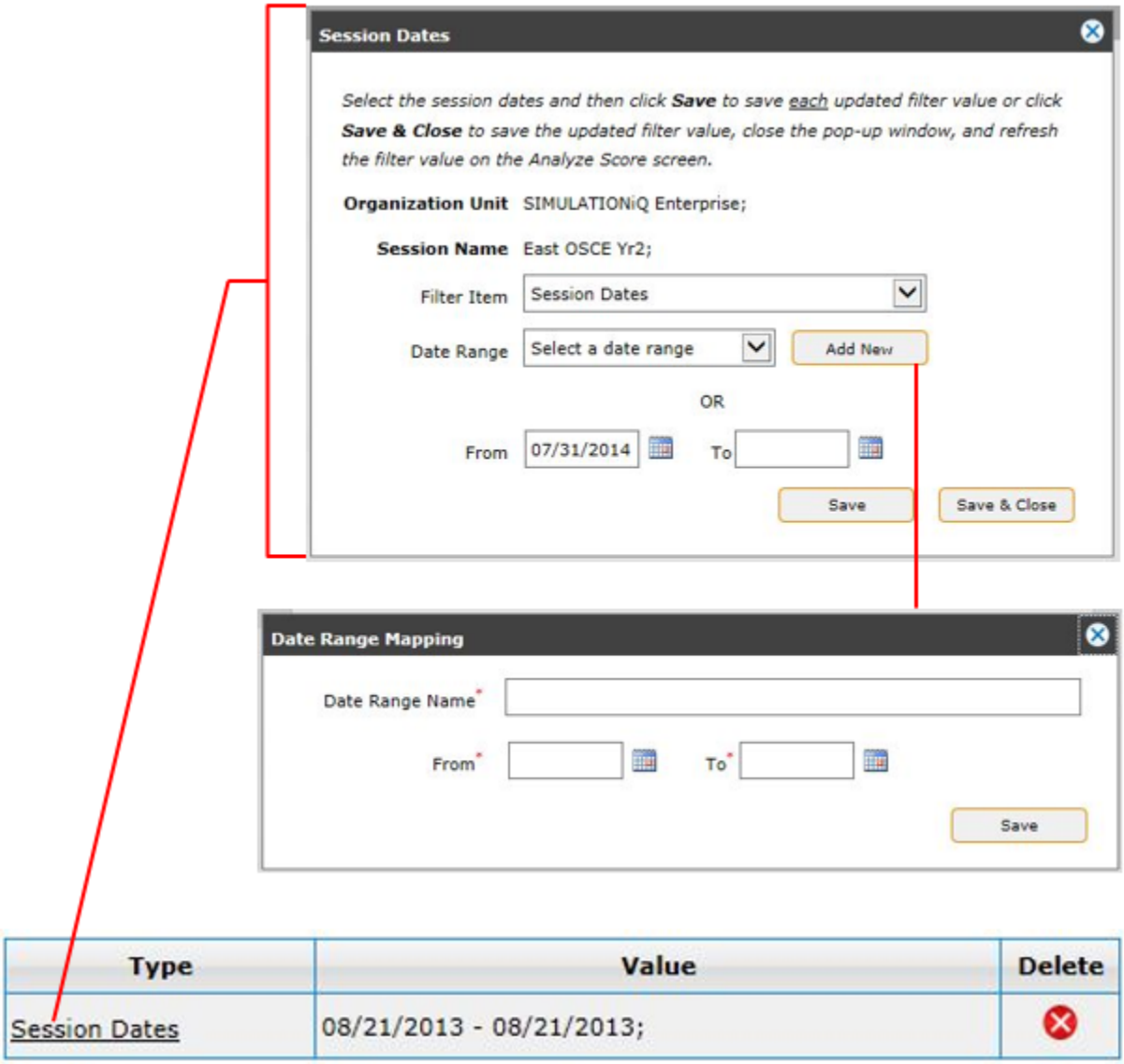

The **Organization Unit** and **Session Name** data type selections are included in your filter details; this helps you to narrow your search results.

Select the **Session Dates** data type (at the **Filter Item** field); you can then select a predetermined range or create a new range by pressing the **Add New** button. Enter a new **Date Range Name** and select new **From** and **To** dates using the calendar icons (these are required fields). Press **Save** at the **Date Range Mapping** dialog to retain new range information.

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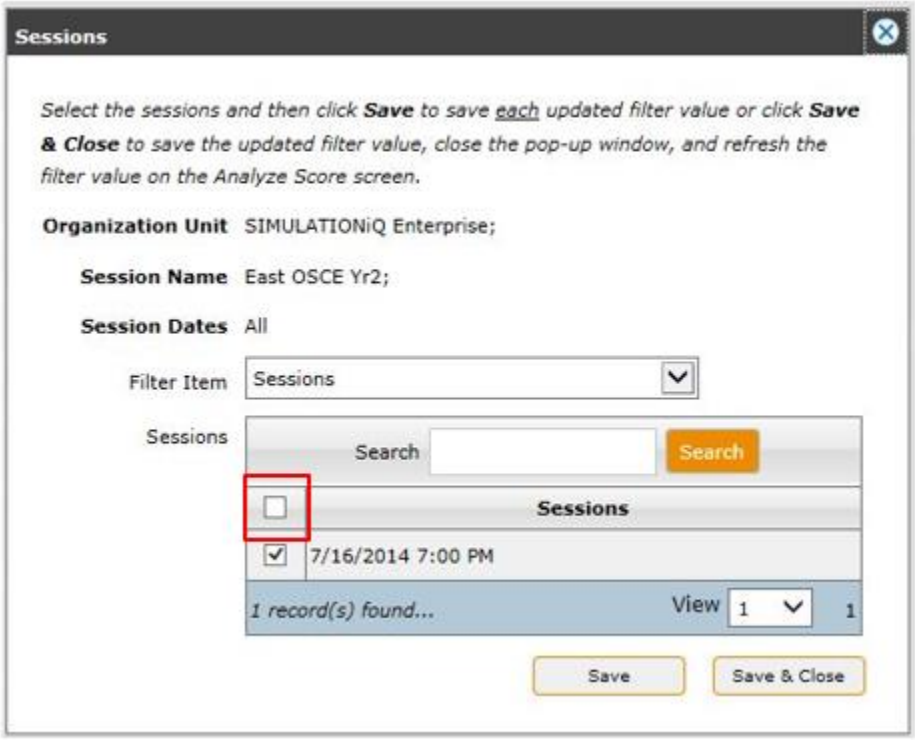
Press **Save** at the **Session Dates** dialog to retain your **Session Dates** selection and choose another data type (the Session Dates appear in the grid; press **Delete** to clear the grid and make another selection). Press **Save & Close** to retain your selections and exit the dialog.

Sessions

Select the **Sessions** data type, and the following dialog appears (click the checkbox in the upper left corner to select all sessions):



Note: Checkboxes for data type selections are available for Analyze Score Report filters, allowing for entry of more than one value per data type; for populating the same data types when creating Analyze Statistics filters, it is only necessary to click the grid hyperlink to make a single selection per type.

The **Organization Unit**, **Session Name** and **Session Dates** data type selections are included in your filter details; this helps you to narrow your search results.

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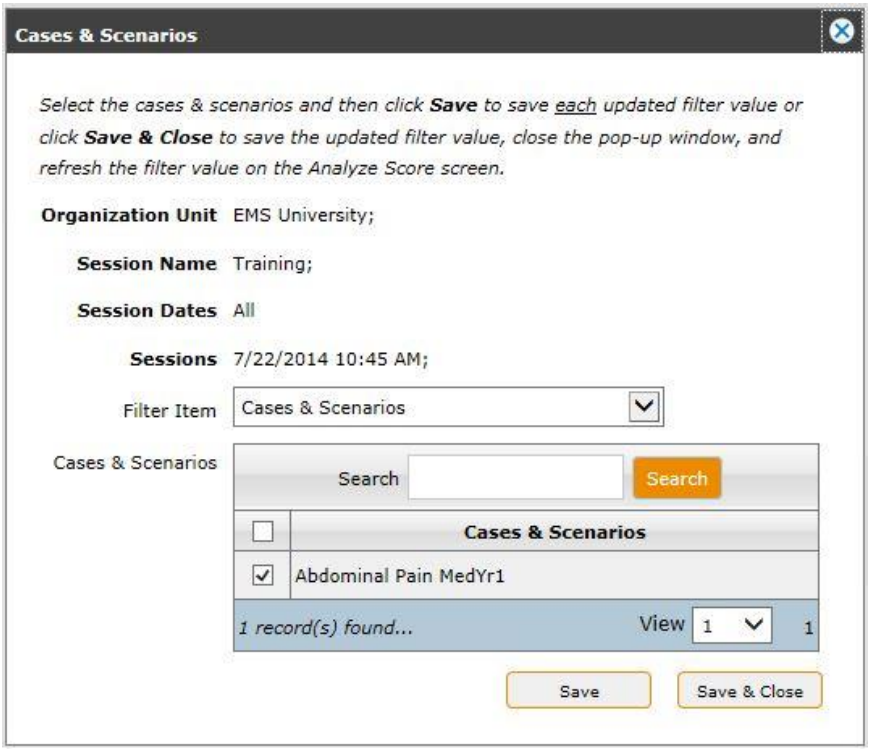
Select the **Sessions** data type (at the **Filter Item** field) to populate the grid. Click the checkbox next to the grid selection(s) you wish to include in your filter (enter an alphanumeric value at the text field and press **Search** to customize your grid selections).

Press **Save** at the **Sessions** dialog to retain your Sessions selection(s) and choose another data type (the Sessions selection appears in the grid; press **Delete** to clear the grid and make another selection). Press **Save & Close** to retain your selections and exit the dialog.

Cases and Scenarios

Select the **Cases & Scenarios** data type, and the following dialog appears:



The **Organization Unit**, **Session Name**, **Session Dates** and **Sessions** data type selections are included in your filter details; this helps you to narrow your search results.

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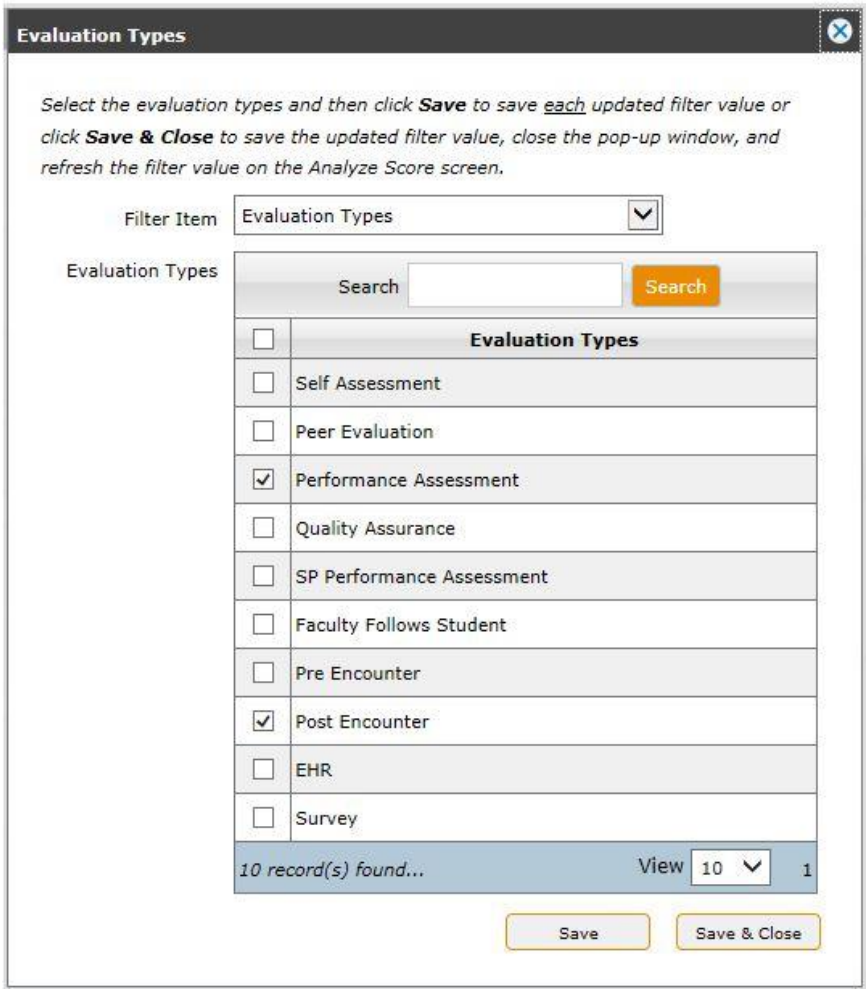
Select the **Cases & Scenarios** data type (at the **Filter Item** field) to populate the grid. Click the checkbox next to the grid selection(s) you wish to include in your filter (enter an alphanumeric value at the text field and press **Search** to customize your grid selections).

Press **Save** at the **Cases & Scenarios** dialog to retain your selection(s) and choose another data type (the Cases & Scenarios value appears in the grid; press **Delete** to clear the grid and make another selection). Press **Save & Close** to retain your selections and exit the dialog.

Evaluation Types

Select the **Evaluation Types** data type, and the following dialog appears:



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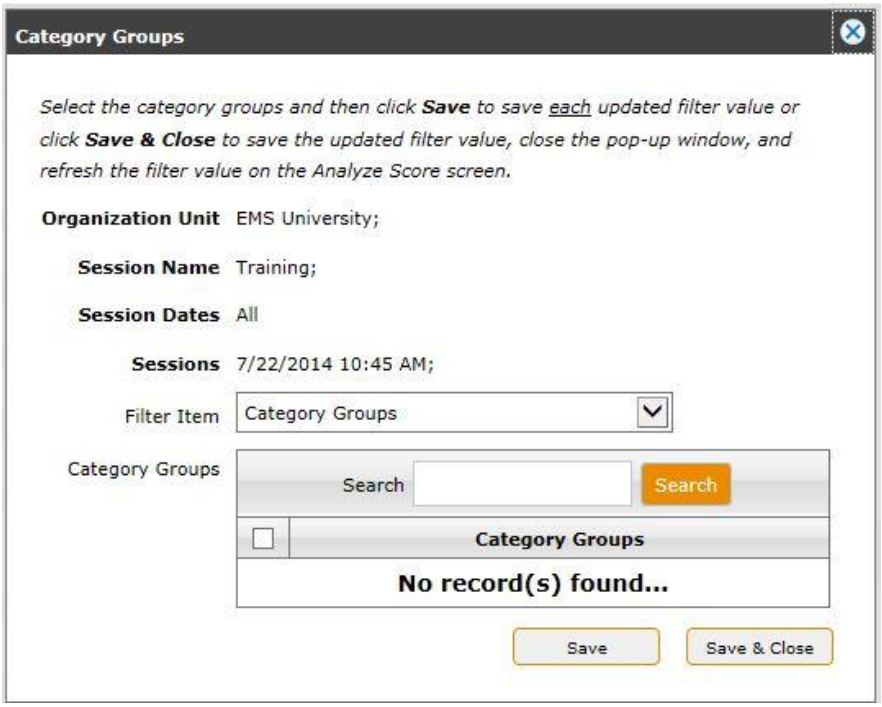
Select the **Evaluation Types** data type (at the **Filter Item** field) to populate the grid. Click the checkbox next to the grid selection(s) you wish to include in your filter (enter an alphanumeric value at the text field and press **Search** to customize your grid selections). The evaluation type selection can be associated with a session name, date, or value from any other data type associated with this filter.

Press **Save** at the **Evaluation Types** dialog to retain your selection(s) and choose another data type (the Evaluation Type values appears in the grid; press **Delete** to clear the grid and make another selection). Press **Save & Close** to retain your selections and exit the dialog.

Category Groups

Select the **Category Groups** data type, and the following dialog appears:



As a reminder, a category group combines existing question categories for more efficient use. For example, a category group called GI OSCE could include the GI, History Taking, and Physical Examination categories (The **Organization Unit**, **Session Name**, **Session Dates** and **Sessions** data type selections are included in your filter details; this helps you to narrow your search results).

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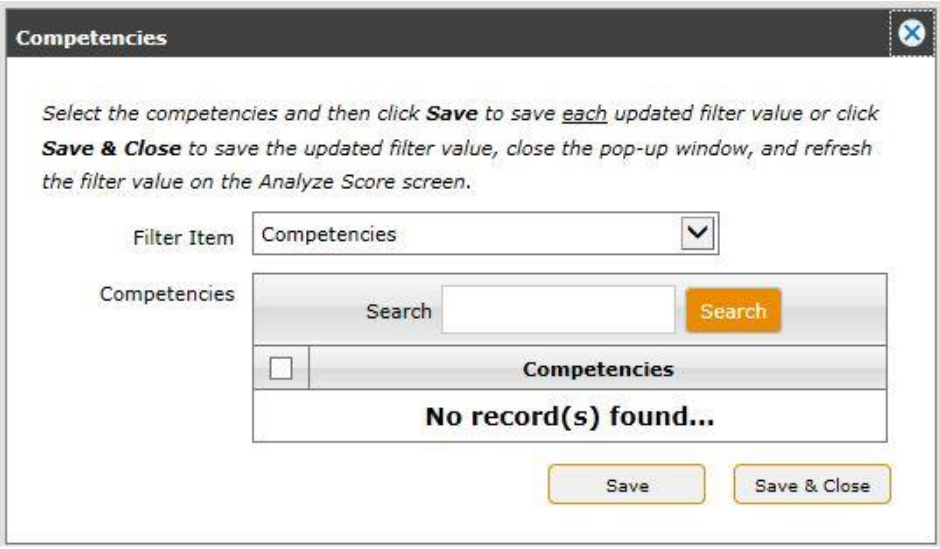
Select the **Category Groups** data type (at the **Filter Item** field) to populate the grid. Click the checkbox next to the grid selection(s) you wish to include in your filter (enter an alphanumeric value at the text field and press **Search** to customize your grid selections). The category groups selection can be associated with a session name, date, or value from any other data type associated with this filter.

Press **Save** at the **Category Groups** dialog to retain your selection(s) and choose another data type (the Category Group value appears in the grid; press **Delete** to clear the grid and make another selection). Press **Save & Close** to retain your selections and exit the dialog.

Competencies

Select the **Competencies** data type, and the following dialog appears:



As a reminder, a competency is a skill set that has been mapped (associated) to a case or scenario. The skill set is used to evaluate a learner to meet certain criteria.

Select the **Competencies** data type (at the **Filter Item** field) to populate the grid. Click the checkbox next to the grid selection(s) you wish to include in your filter (enter an alphanumeric value at the text field and press **Search** to customize your grid selections). The competency data type can be associated with a session name, date, or value from any other data type associated with this filter.

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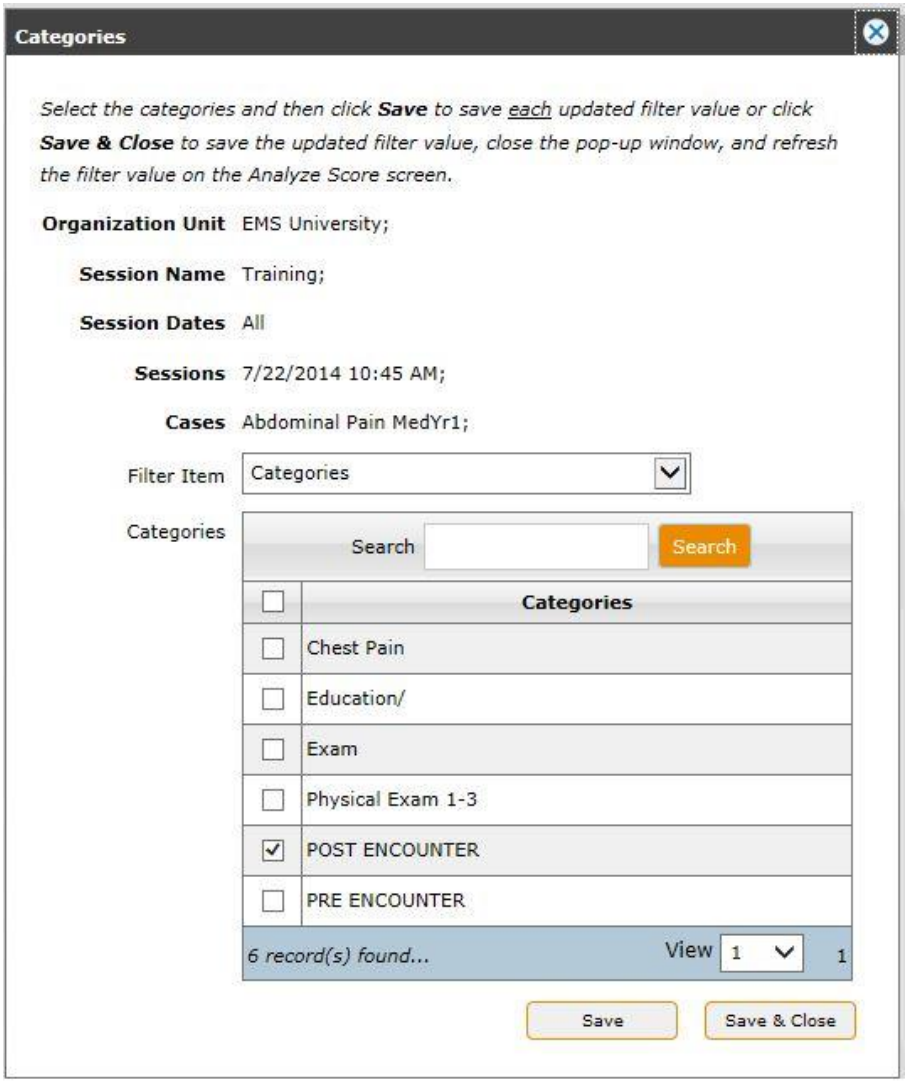
Press **Save** at the **Competencies** dialog to retain your selection(s) and choose another data type (the Competencies value appears in the grid; press **Delete** to clear the grid and make another selection). Press **Save & Close** to retain your selections and exit the dialog.

Categories

Select the **Categories** data type, and the following dialog appears:



As a reminder, a category is a means of designating the SP Checklist items in the case (this can include pre and post-encounter categories). The **Organization Unit**, **Session Name**, **Session Dates** and **Sessions** data type selections are included in your filter details; this helps you to narrow your search results.

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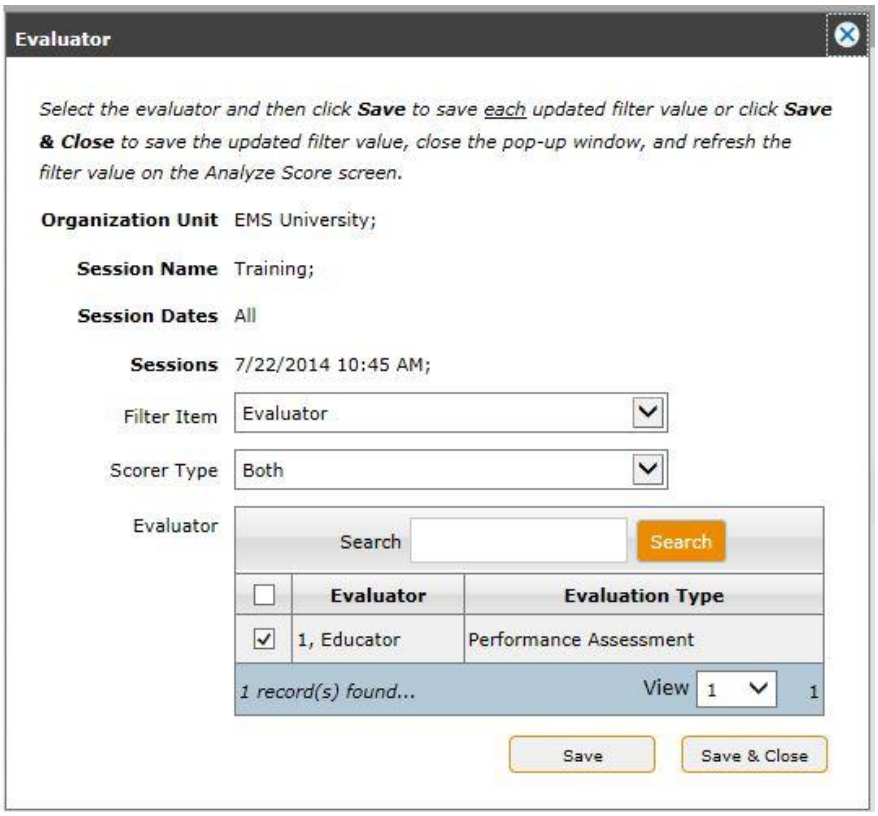
Select the **Categories** data type (at the **Filter Item** field) to populate the grid. Click the checkbox next to the grid selection(s) you wish to include in your filter (enter an alphanumeric value at the text field and press **Search** to customize your grid selections). The categories data type can be associated with a session name, date, or value from any other data type associated with this filter.

Press **Save** at the **Categories** dialog to retain your selection(s) and choose another data type (the Categories value appears in the grid; press **Delete** to clear the grid and make another selection). Press **Save & Close** to retain your selections and exit the dialog.

Evaluator

Select the **Evaluator** data type, and the following dialog appears:



The **Organization Unit**, **Session Name**, **Session Dates** and **Sessions** data type selections are included in your filter details; this helps you to narrow your search results.

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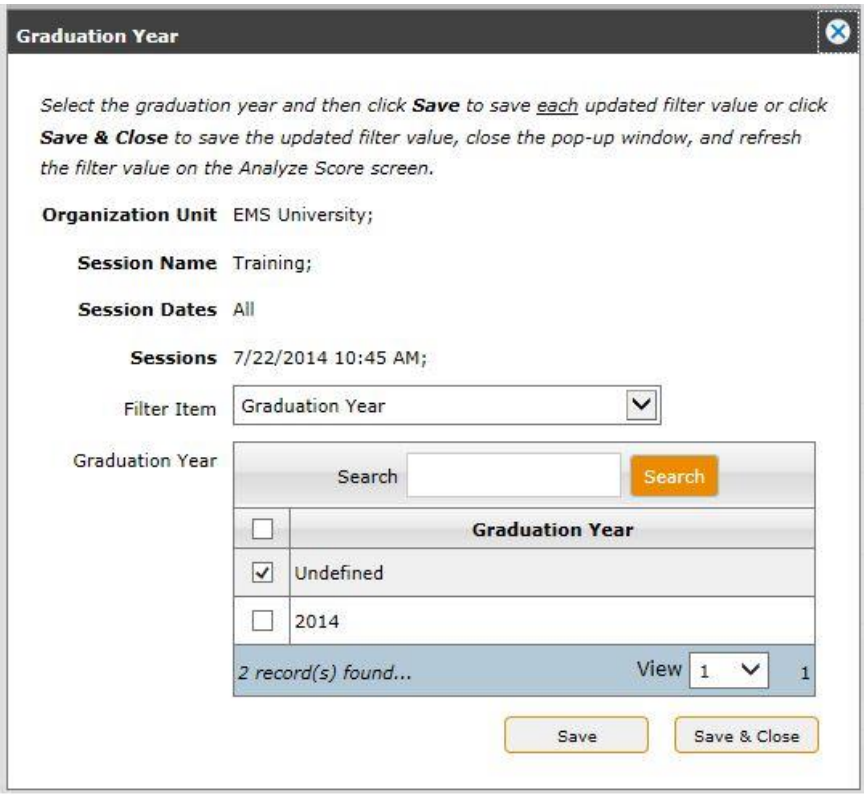
Select the **Evaluator** data type (at the **Filter Item** field) to populate the grid (under **Scorer Type**, select **Prime**, **Additional**, or **Both** from the drop-down list – **Both** is the default). Click the checkbox next to the evaluator grid selection(s) you wish to include in your filter (enter an alphanumeric value at the text field and press **Search** to customize your grid selections).

Press **Save** at the **Evaluator** dialog to retain your selection(s) and choose another data type (the Evaluator value appears in the grid; press **Delete** to clear the grid and make another selection). Press **Save & Close** to retain your selections and exit the dialog.

Graduation Year

Select the **Graduation Year** data type and the following dialog appears:



The **Organization Unit**, **Session Name**, **Session Dates** and **Sessions** data type selections are included in your filter details; this helps you to narrow your search results.

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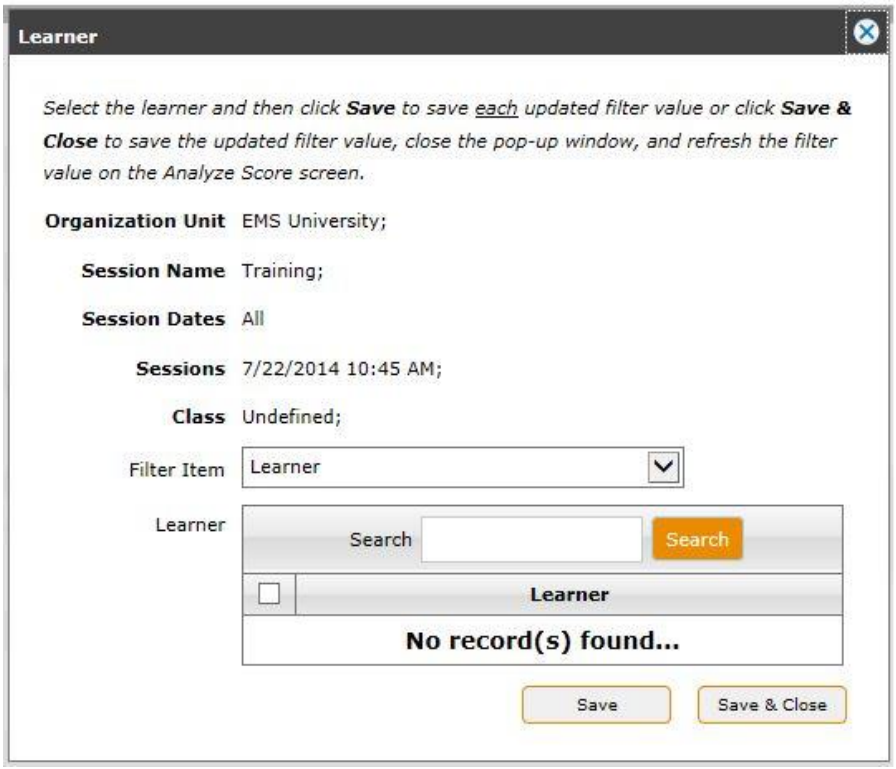
Select the **Graduation Year** data type (at the **Filter Item** field) to populate the grid. Click the checkbox next to the grid selection(s) you wish to include in your filter. Enter an alphanumeric value at the text field and press **Search** to customize your grid selections.

Press **Save** at the **Graduation Year** dialog to retain your selection(s) and choose another data type (the Graduation Year value appears in the grid; press **Delete** to clear the grid and make another selection). Press **Save & Close** to retain your selections and exit the dialog.

Learner

Select the **Learner** data type and the following dialog appears:



The **Organization Unit**, **Session Name**, **Session Dates**, **Sessions** and **Graduation Year** data type selections are included in your filter details; this helps you to narrow your search results.

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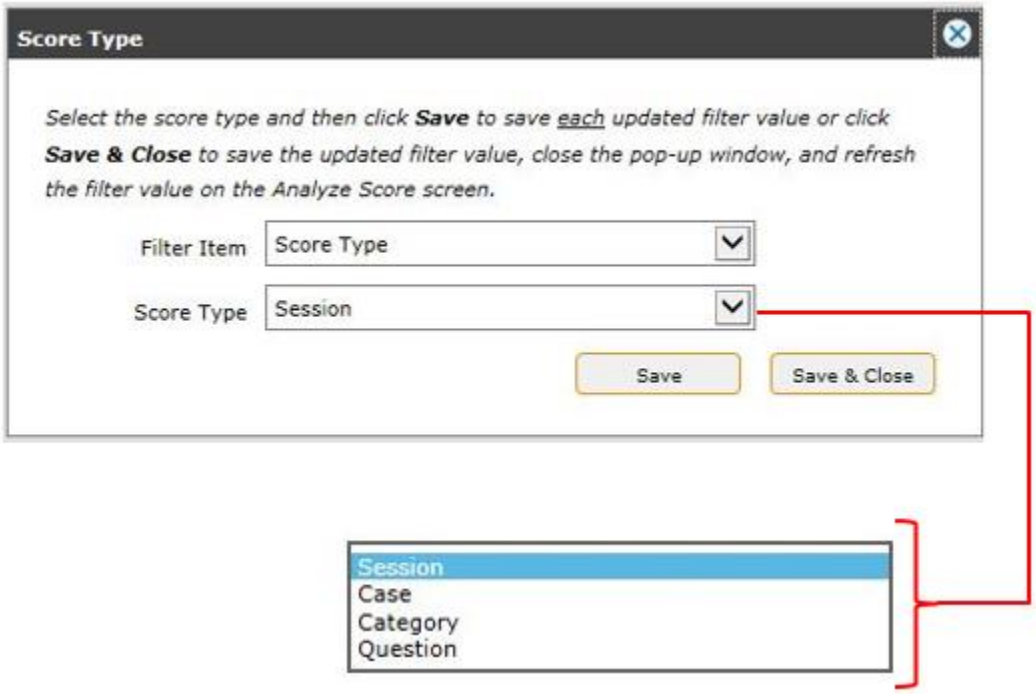
Select the **Learner** data type (at the **Filter Item** field) to populate the grid. Click the checkbox next to the learner grid selection(s) you wish to include in your filter. Enter an alphanumeric value at the text field and press **Search** to customize your grid selections.

Press **Save** at the **Learner** dialog to retain your selection(s) and choose another data type (the Learner value appears in the grid; press **Delete** to clear the grid and make another selection). Press **Save & Close** to retain your selections and exit the dialog.

Score Type

Select the **Score Type** data type and the following dialog appears:



Select the **Score Type** data type at the **Filter Item** field. You can customize this data type by selecting **Session**, **Case**, **Category**, **Question**, or **Category Group** as the **Score Type**.

Press **Save** at the **Score Type** dialog to retain your selection(s) and choose another data type. Press **Save & Close** to retain your selections and exit the dialog.

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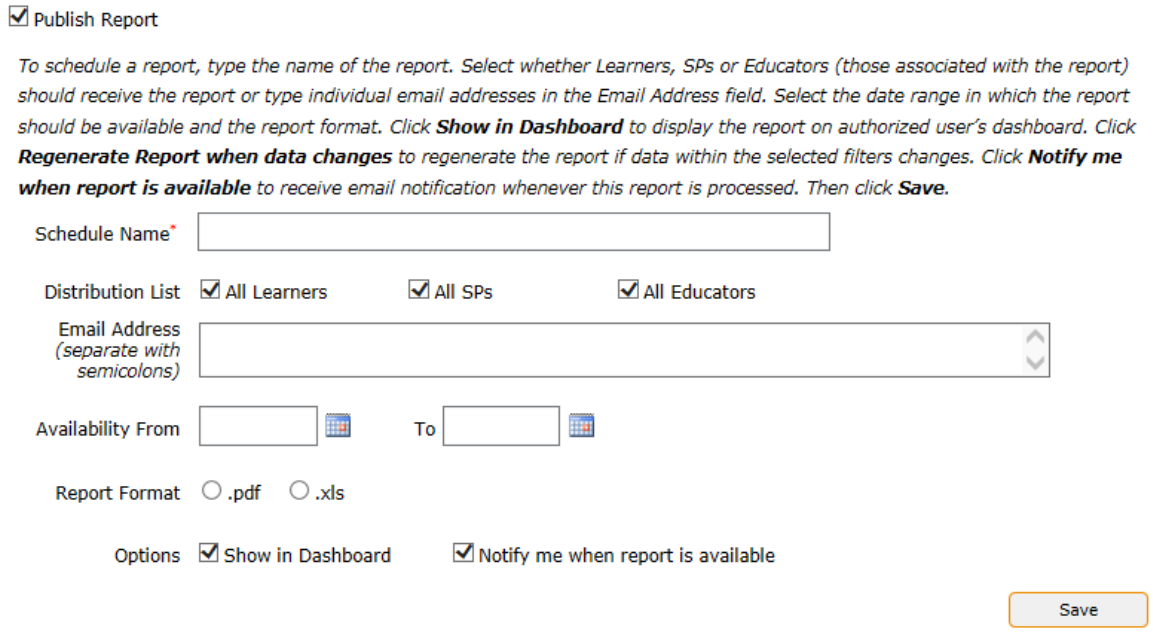
Publish Report



Publishing a report means that a report can be scheduled for delivery to recipients.

1. Click the **Publish Report** checkbox to generate data based on the filter selections.
2. Give the report a **Name** and **select who will receive** the report.
3. Additional recipients can be added by typing in the recipient's email address(es).
4. Define the **dates** that the report will be available to the recipients
5. Select either the **PDF** or the **Excel** icon to generate the report in that format.
6. Options:
    a. **Show in Dashboard** – displpays a link to the report on the user's dashboard
    b. **Notify me when report is available** – this must be checked for notification to be send via an email to the recipients. The email address must be in the User's Profile page, or in the box under the Distribution List and email services must be configured for the Orion system.
7. Click **Save.** Click **Published Reports** to view the status of schedule reports.

Report Notification

A notification message appears at the top of the screen when a report is ready to view.

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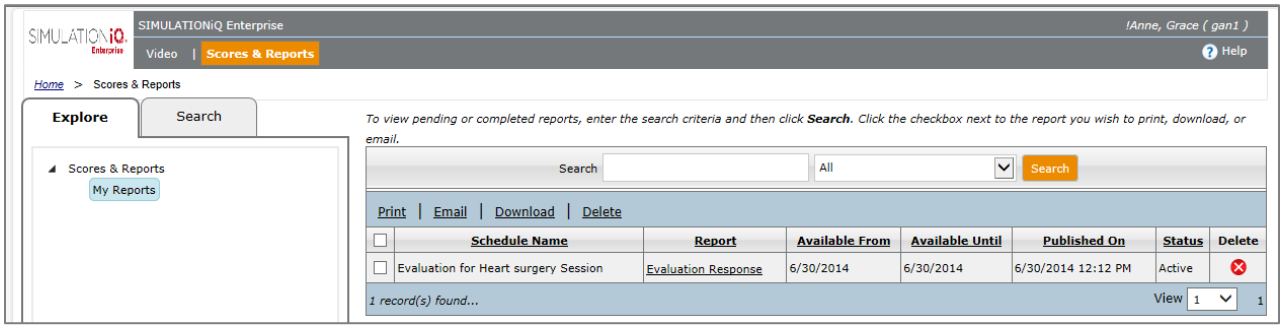
How users access the Published Report

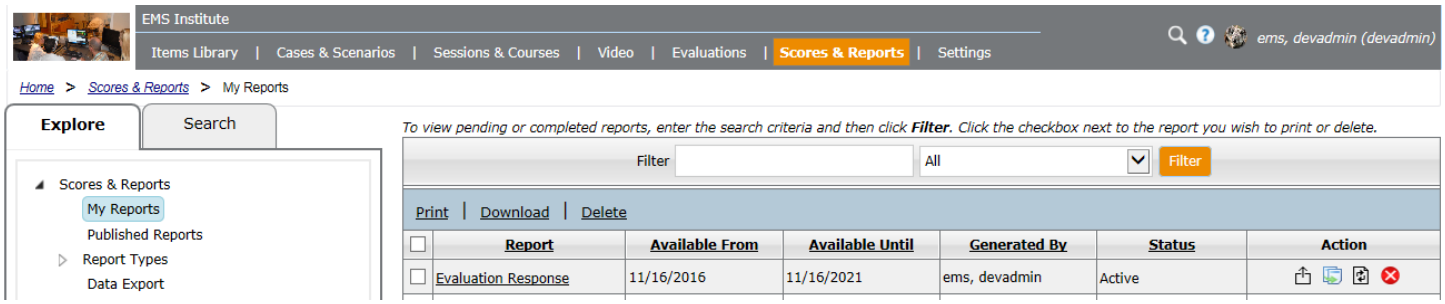
When the report is available, a link appears in the Message Center in the recipient's dashboard.

<u>Important Note:</u> Learners and SPs need "My Reports" enabled in their Task Access to access reports.



Click the link from the Dashboard or click **Scores & Reports > My Reports** to access the report.

My Reports



My Reports displays only those reports that the Administrator publishes for the logged in user. To view pending or completed reports, enter the search criteria and then click **Search**. Click the checkbox next to the report you wish to print, download, or delete.

The following tasks appear on the **My Reports** grid:

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Task	Result
Search	Enter keywords and then click the drop-down arrow to search by: • Schedule Name • Report • Available From • Available Until • Published On • Status Click **Search**. The search results appear with the keyword highlighted if it exists.
Print	Click the checkbox(es) next to the desired report(s) in the grid and then click **Print**. A .pdf file is generated and displayed in the Report Viewer.
Download	Click the checkbox(es) next to the desired report(s) in the grid and then click **Download**. If you selected only one report, then the report is downloaded and you will be asked to either open or save the file. If you selected more than one report, then all selected reports are merged into a zip file and you will be asked to open or save the zip file.
Delete	Click the checkbox(es) next to the desired report(s) in the grid and then click **Delete**.
Actions	Share Copy Requeue Delete this report and any existing shared copies of the report.

Generate Score

To generate scores, click the

button in the upper right corner of the **Analyze Score** activity page.

Report Data is based on the last date and time the system generated scores, which is indicated in the Report Data section. The date and time of the next scheduled calculation process (per the system parameters) is also indicated. To generate pending scores:

1. Click **Generate Score**. A message appears: “This may take a few minutes. Do you want to continue?”
2. Click **OK** to continue.

Published Reports

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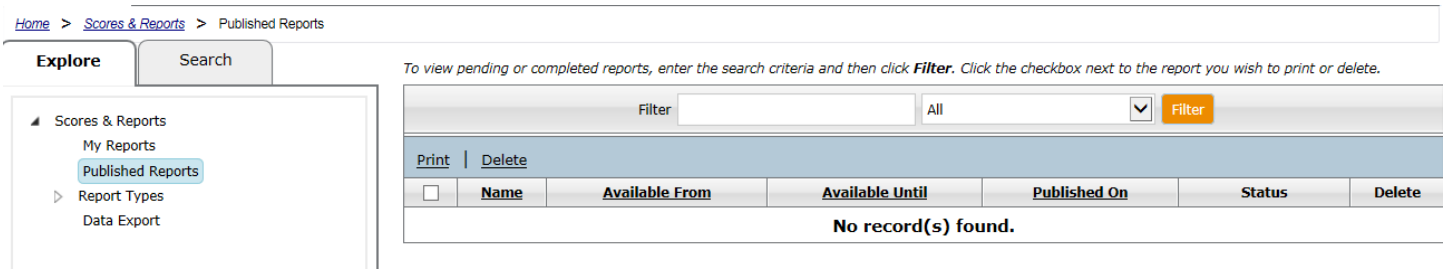

<u>To view pending or completed reports:</u>

1. Enter the search criteria and then click **Search**. The search results appear.
2. Click the checkbox next to the report you wish to print or delete.

The following tasks appear on the **Schedule Reports** grid:

Task	Result
Search	Enter keywords and then click the drop-down arrow to search by: • Schedule Name • Available From • Available Until • Published On • Status Click **Search**. The search results appear with the keyword highlighted if it exists.
Print	Click the checkbox(es) next to the desired report(s) in the grid and then click **Print**. A .pdf file is generated and displayed in the Report Viewer.
Delete	Click the checkbox(es) next to the desired report(s) in the grid and then click **Delete**. Note: If the report status is **Completed** then all published reports will be deleted for all users.

Reports are generated every 30 minutes. Notice the “Pending” status in the screenshot above. After 30 minutes, the report will show as “Completed”.

*If you find the reports are not being scored, verify the Offline Process services are running by going to **Settings > AV Configuration > Offline Processes.** The grid will tell you the last time and date the Offline Processes for “Published reports” ran successfully. If they have not ran successfully, go to AV Control, to System Monitor and restart the “Agent” service under the SQL grid.*

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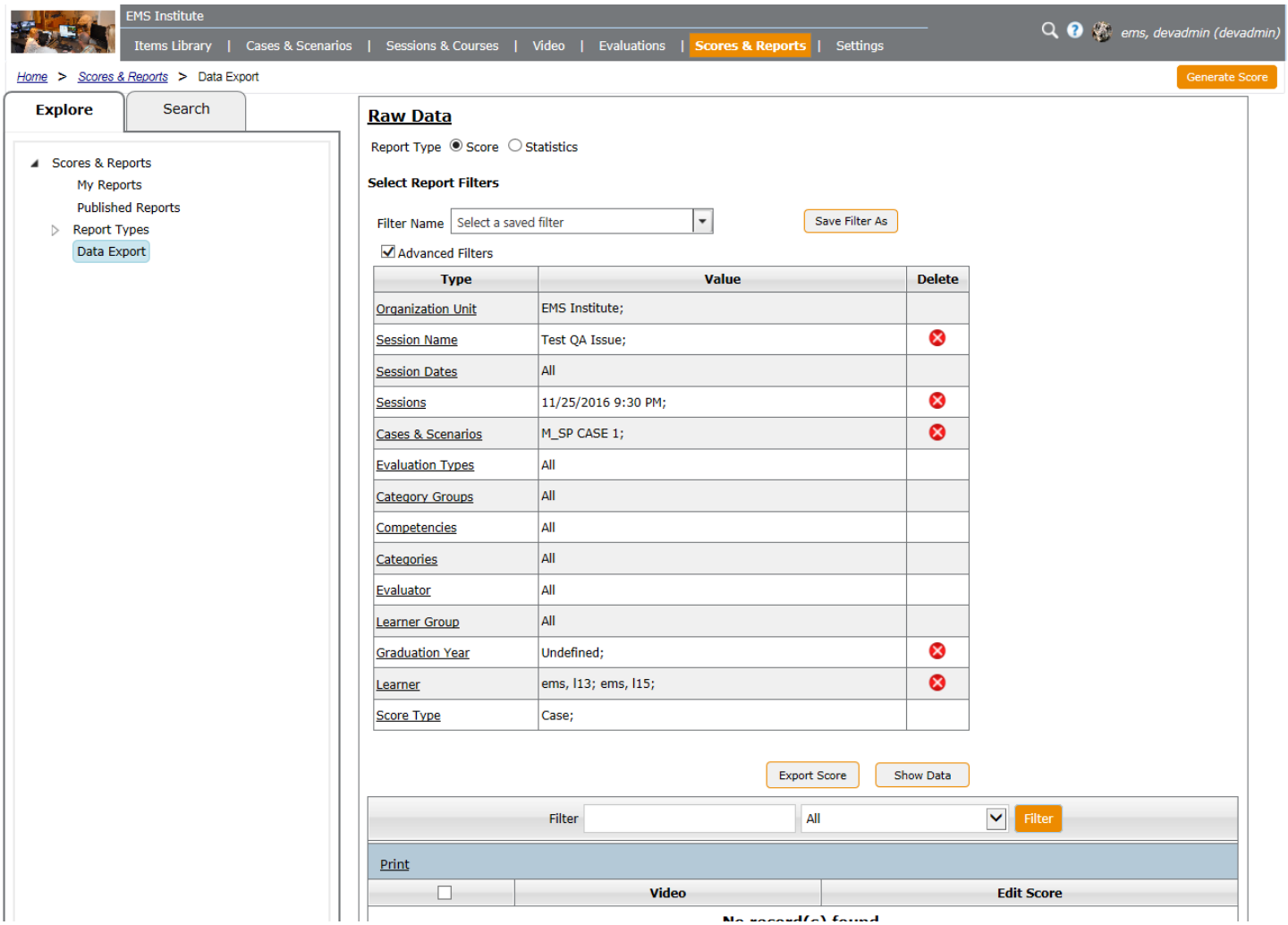
Data Export



1. Select your Search filters.
2. Either:

- Click the **Export Score** button to generate scores when there are more than 500 records, or to bypass displaying the data in the Data Grid below and go directly to the Export Score window.

OR

- Click the **Show Data** button to display the results in the Data Grid at the bottom of the page.

Export Scores

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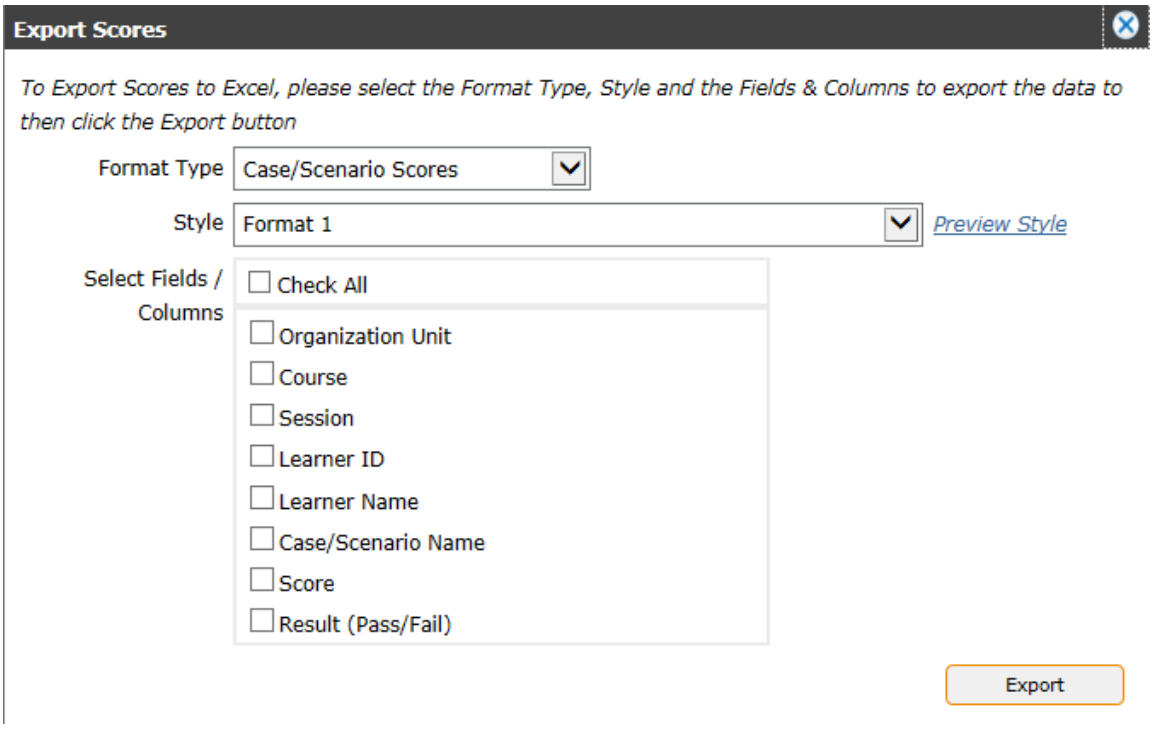

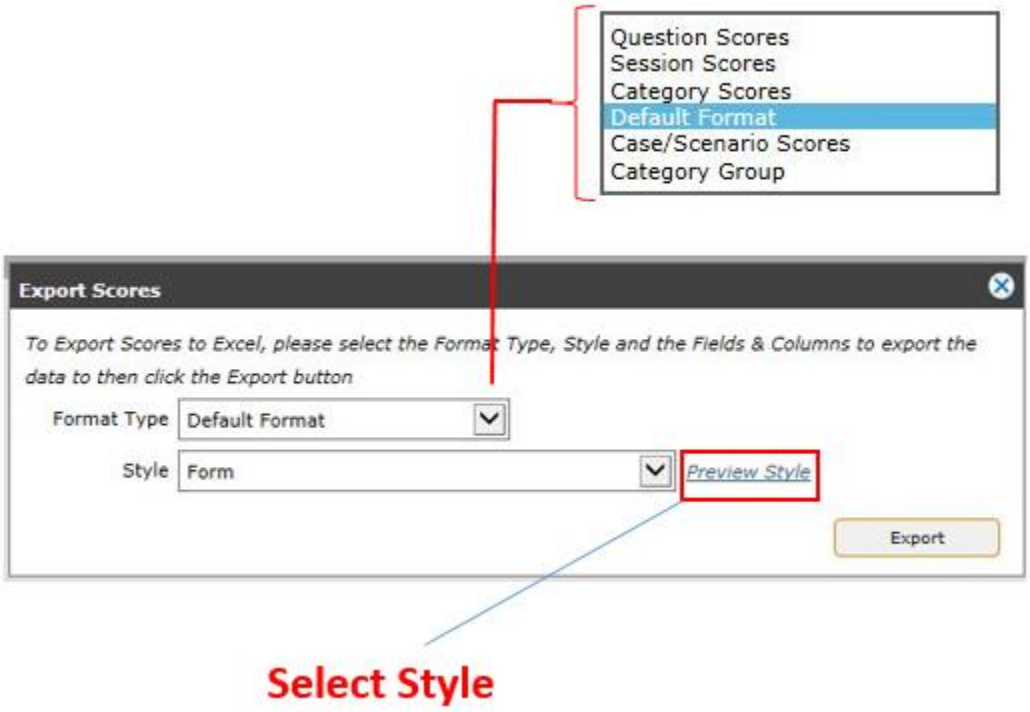

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Customize the file by selecting the **Format Type** and the **Style** from the drop-down lists. Click **Preview Style** to view your output in accordance with your selections.

The following table lists the Export Scores fields by format type:

Format Type	Format Numbers Available	Fields/Columns
Question Scores	Format 1	• Case/Scenario Name
		• Category Group Name
		• Category Name
		• Percent Score
		• Competency Name
		• Course
		• Evaluator Name
		• Learner ID
		• Learner Name
		• Organization Unit
		• Question Text
		• Response
		• Score
		• Session
		• Max Score
		• Case/Scenario Name
	Format 2/Format 3	• Case/Scenario Name
		• Category Group Name
		• Category Name
		• Competency Name
		• Course
		• Evaluator Name
		• Learner ID
		• Learner Name
		• Organization Unit
		• Response
		• Score
		• Session
	Format 4	• Course
		• Evaluator Name
		• Learner ID
		• Learner Name

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Format Type	Format Numbers Available	Fields/Columns
		• Organization Unit
		• Score
		• Percent Score
		• Session
	Format 5	• Case/Scenario Name
		• Category Group Name
		• Category Name
		• Competency Name
		• Course
		• Evaluator Name
		• Learner ID
		• Organization Unit
		• Question Text
		• Response
		• Session
	Format 6	• Category Group Name
		• Category Name
		• Competency Name
		• Course
		• Evaluator Name
		• Learner ID
		• Organization Unit
		• Question Text
		• Response
		• Session
	Format 7	• Session
		• Course
		• Evaluator Name
		• Learner ID
		• Learner Name
		• Organization Unit
		• Score
		• Mas Score
		• Total Score
		• Total Max Score

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Format Type	Format Numbers Available	Fields/Columns
Session Scores	Formats 1 and 2	• Case/Scenario Collection Name
		• Course
		• Learner ID
		• Learner Name
		• Organization Unit
		• Result (Pass/Fail)
		• Score
		• Session
*Category Scores	Format 1	• Case/Scenario Name
		• Category Name
		• Percent Score
		• Course
		• Evaluator Name
		• Learner ID
		• Organization Unit
		• Result (Pass/Fail)
		• Score
		• Session
		• New Score
	Format 2	• Case/Scenario Name
		• Category Name
		• Course
		• Learner ID
		• Learner Name
		• Organization Unit
		• Result (Pass/Fail)
		• Score
		• Session
Default	Form	All fields
Case/Scenario Scores	Formats 1 and 2	• Case/Scenario Name
		• Course
		• Learner ID
		• Learner Name
		• Organization Unit
		• Result (Pass/Fail)
		• Score

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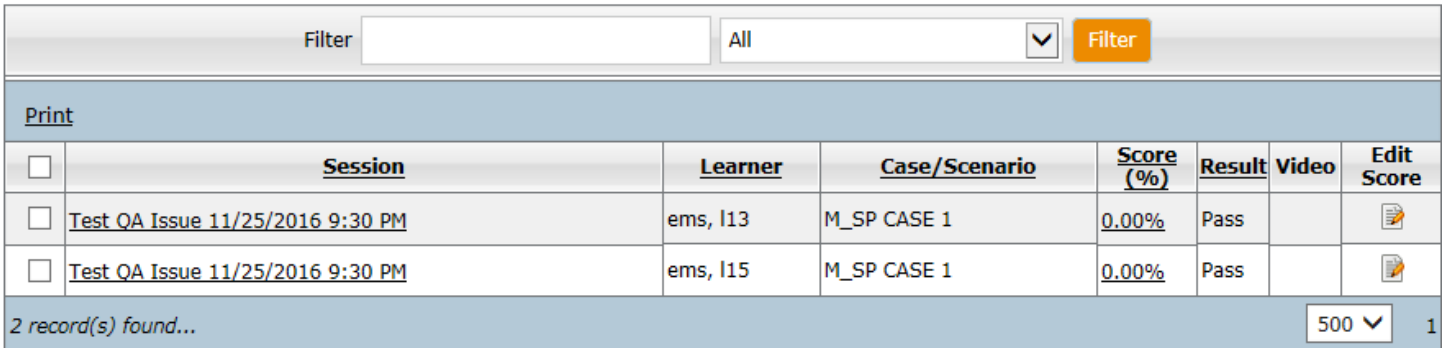
Format Type	Format Numbers Available	Fields/Columns
		• Session
Category Group	Format 1	• Case/Scenario Name
		• Category Group Name
		• Course
		• Learner ID
		• Learner Name
		• Organization Unit
		• Score
		• Session

*-Use this format to export raw scores.

Click the **Export** button after making your **Format Type** and **Style** selections. This exports the file to the Downloads folder on your PC.

Show Data

Edit Score



The **Edit Score** icon appears at the end of a row of data (shown above). Click the checkbox to select a row of data and then click the **Edit Score** icon.

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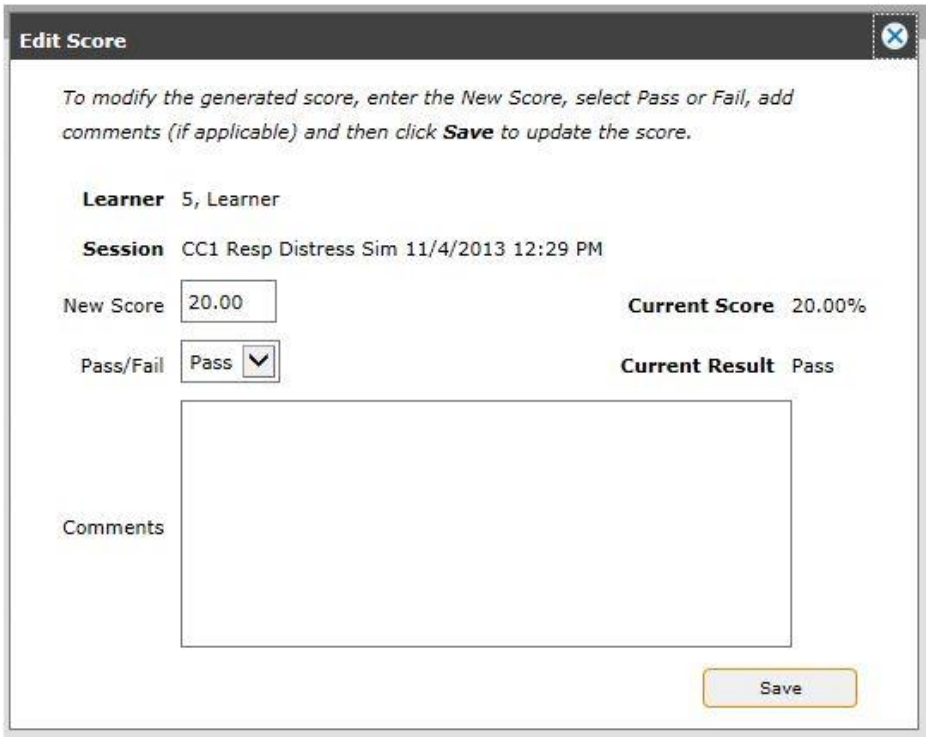

Make any scoring changes, select pass or fail criteria, or enter comments as desired. Click **Save** to retain all updates.

B

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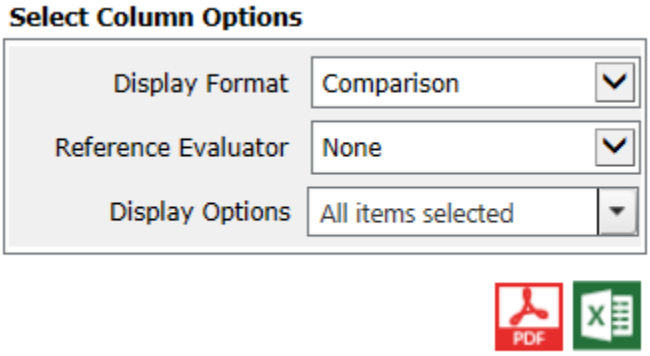
Report Types: Score and Statistics

Evaluation Comparison



If multiple evaluators were assigned to a case in a session, their responses may be compared in the **Evaluation Comparison Report.** Also, observer responses can be compared side by side with SP responses in this report. This report may be used for quality assurance purposes. This report will also display the agreements in percentage for category based on referenced evaluator. In addition:

- The report will not consider text type items (questions).
- All parameters will be printed at report header section.
- Items will be printed in checklist order.
- The report will have capability to display responses for up to 5 evaluators.

The report should be able to display/print formatted texts (i.e., rich text). A sample report appears below:

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Evaluation Comparison - Comparison

Labor and Delivery Session 6/27/2013 3:08 PM

Shoulder Dystocia

Team

SIMULATIONiQ™ Enterprise

EMS Training - Energy Prep

Question Text	1, Educator	2, Educator
Skills		
Simulated an episiotomy Medical knowledge	Yes	Yes
Recognized shoulder dystocia:	Yes	Yes
Recognized shoulder dystocia within:	Within 1-3 minutes	Within 1-3 minutes
Skills		
Responded to manuevers	Yes	Yes
Delivered posterior arm	Correctly	Correctly
Delivery Method	Performed a Zanvinelli	Performed a Zanvinelli
Degree of force used during delivery	Gentle traction	Gentle traction
Attempts to fracture the clavicle Medical knowledge	Yes	No
Collects cord blood for gases Awareness	Yes	Yes
Actual head-to-body delivery time	Within 1-3 minutes	Within 1-3 minutes
Agreement:	100 %	90 %

0 %	0 %	0 %		

2/5/2014 6:50 PM — Copyright © 2013 Education Management Solutions — Page 1 of 1

Evaluation Comparison Summary

Select Column Options

Display Format: Summary

Options: ☐ Show Question Text

Display Options: All items selected

To print question text along with your learner, scoring and category details, click the Show Question Text checkbox.

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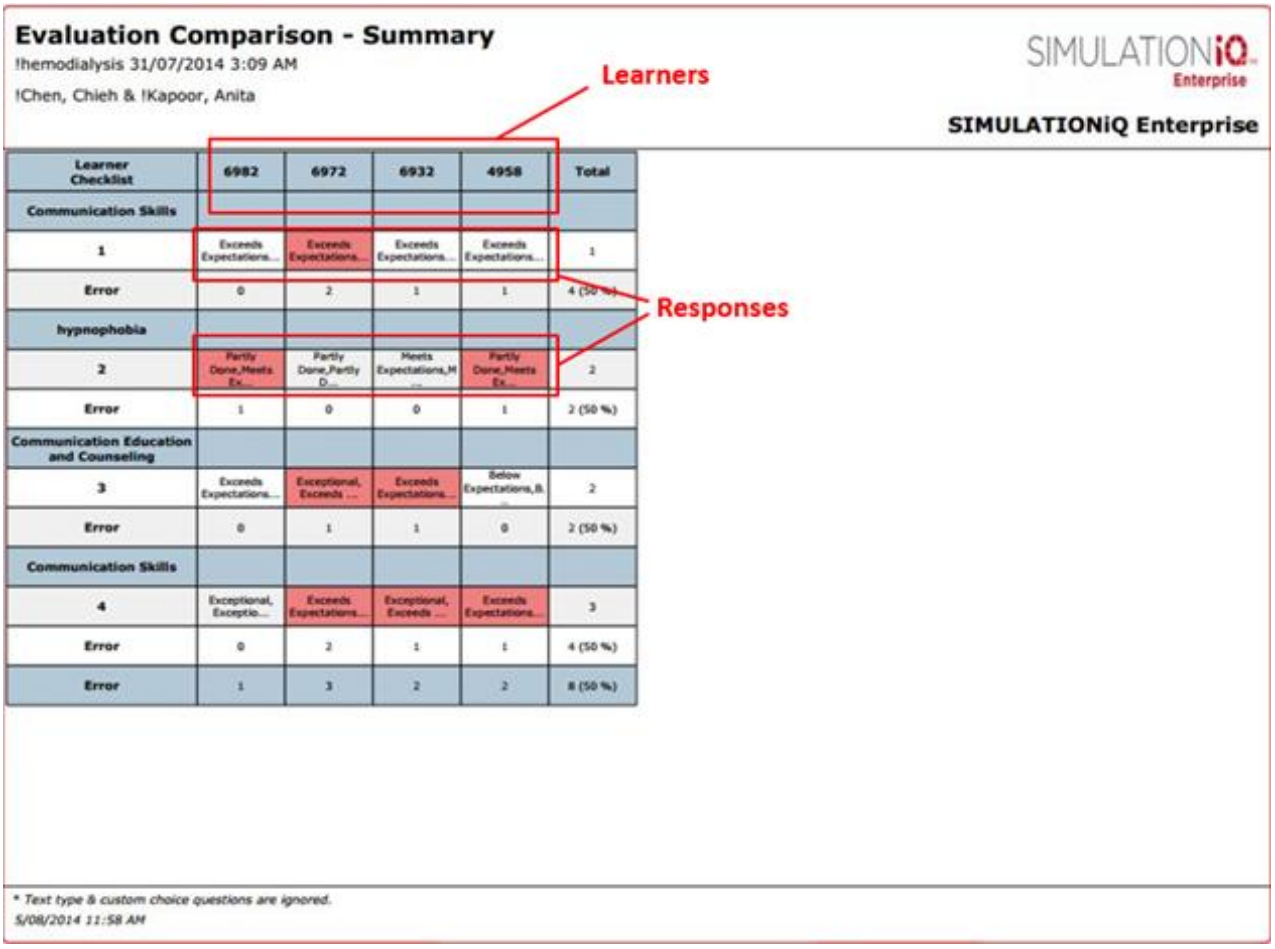
A sample report appears below:



Evaluation Comparison - Summary

!hemodialysis 31/07/2014 3:09 AM

!Chen, Chieh & !Kapoor, Anita

SIMULATIONiQ Enterprise

SIMULATIONiQ Enterprise

Learners

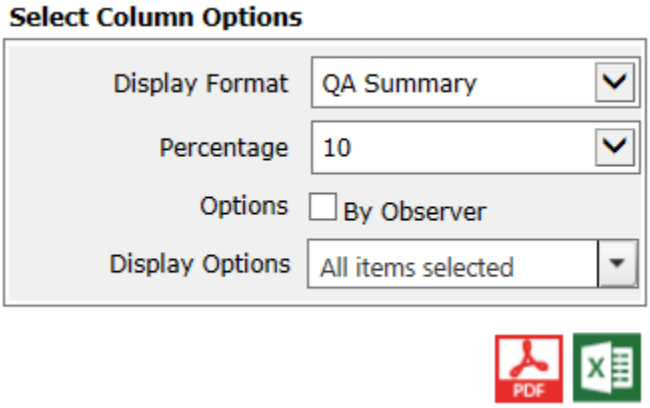
Responses

Learner Checklist	6982	6972	6932	4958	Total
Communication Skills					
1	Exceeds Expectations...	Exceeds Expectations...	Exceeds Expectations...	Exceeds Expectations...	1
Error	0	2	1	1	4 (50 %)
hypnophobia					
2	Partly Done,Meets Ex...	Partly Done,Partly D...	Meets Expectations,M ...	Partly Done,Meets Ex...	2
Error	1	0	0	1	2 (50 %)
Communication Education and Counseling					
3	Exceeds Expectations...	Exceptional, Exceeds ...	Exceeds Expectations...	Below Expectations,B ...	2
Error	0	1	1	0	2 (50 %)
Communication Skills					
4	Exceptional, Exceptio...	Exceeds Expectations...	Exceptional, Exceeds ...	Exceeds Expectations...	3
Error	0	2	1	1	4 (50 %)
Error	1	3	2	2	8 (50 %)

** Text type & custom choice questions are ignored.*

5/08/2014 11:58 AM

Evaluation Comparison QA Summary



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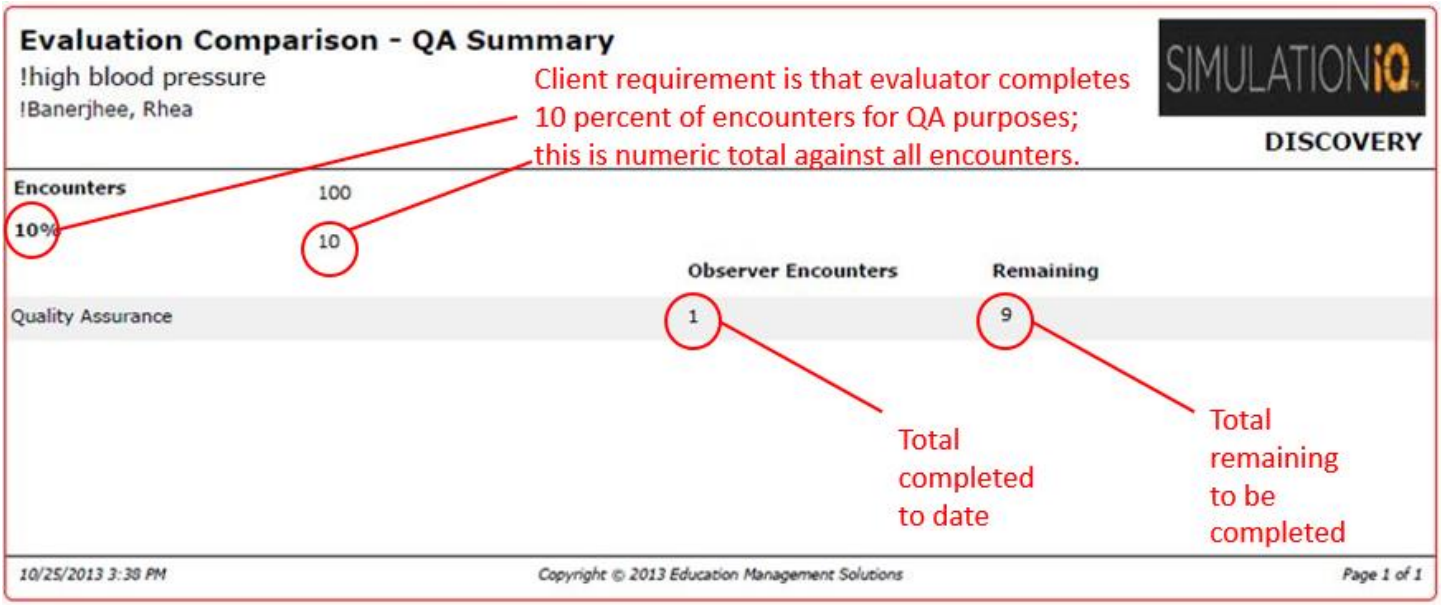
Click the By Observer checkbox to produce a report with the name of the observer included**.**

A sample report appears below:



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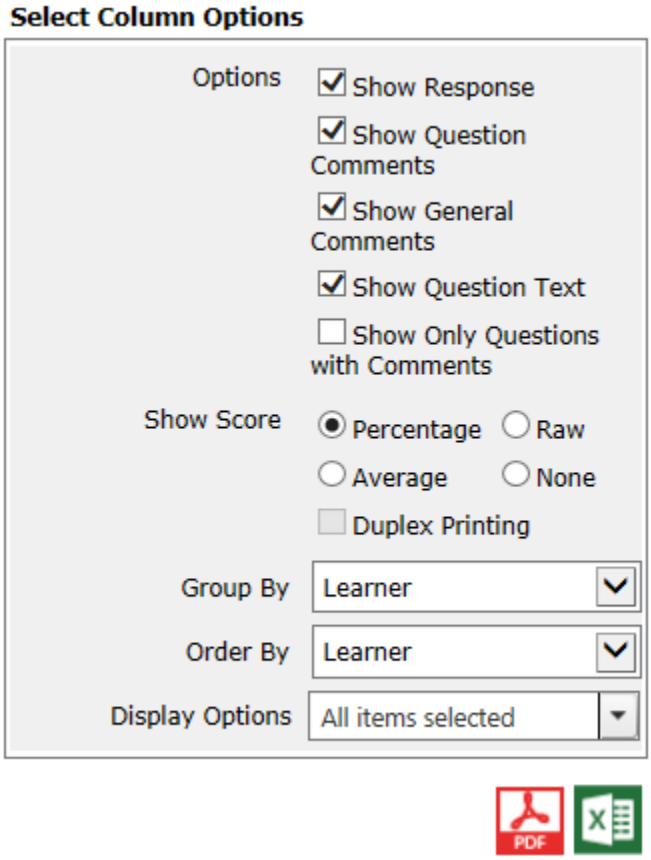
Evaluation Response

B



The **Evaluation Response Report** displays the responses or comments for the provided parameters. The following radio button score types are available:

Field	Description
Percentage Score	This displays the learner's score as a percentage.
Raw Score	This displays the learner's score not as a percentage.
Average Score	This displays the learner's score not as a percentage along with the category average fot the learner within the session and case.

Duplex printing is also available for this report by clicking the checkbox.

In addition:

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- All parameters will be printed at the report header section.
- Items will be printed in checklist order.
- By default, a page break will occur after every student if a lot of details are shown for each student.
- In case of order by evaluator, a page break will occur after every evaluator also.
- General comments will be printed beneath case/scenario name/id. Like Comment: comment text.
- Question comments will be printed beneath question text. Like Comment: comment text.
- The Case will be printed in a single row. Like CASE: Case Name or SCENARIO: Scenario Name.
- The Category and Evaluator will be printed in a single row. Like CATEGORY: Category Name Evaluator: Evaluator Name (SP)
- Each evaluator will be identified by SP/Faculty.
- A report can be generated for a single category. In this case Q. No. will start from 1 for first category (whether it comes in middle in the whole checklist).
- The report will display/print formatted texts (i.e. rich text).
- With each category, the question header (Q.no, Question Text and Response) will be printed.
- If a report is being generated for comments, only those cases/questions will be printed that have a comment. The sequence of questions will be printed as per checklist order.
- This report will be available only if user selects a single evaluation type. Based on selected evaluation type, responses/comments/scores will be displayed.
- *Group by* and *Order by* values cannot be the same.
- A flag is displayed before a custom question.
- Show question text can only be applicable if show score is selected.
- If show question text is not selected, then question text will not be displayed.

Note: If “Show Only Questions with Comments” is checked and there aren’t any comments, then the report won’t generate.

Show score will not be applicable for surveys. A sample report follows:

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Evaluation Response – Percentage Score

Evaluation Response

DPM 29AUG13 1300 L2 8/29/2013 1:00 PM

ACS - DPM

DPM 29AUG13 1300 L2

EMS University

Stovell, Paul

Question Text	Score (%)
Team Simulation Competency Scale	
Interpersonal & Communication : Team Communication 4	80
Patient Care: Coordination of Care 3-Some Cues Needed to Perform	60
Patient Care: Information Utilization 3-Some Cues Needed to Perform	60
Patient Care: Situational Assessment 3-Some Cues Needed to Perform	60
Practice Based Learning: Clinical Reasoning 3-Some Cues Needed to Perform	60
Professionalism: Team Interaction 4	80
Systems based practices: Team Coordination 3-Some Cues Needed to Perform	60
Comments: Good effort for case #1	0

General Comments : *Good teamwork and communication this will get better with additional cases*

Evaluation Response – Raw Score

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Raw Evaluation Response

Test Session New 4/15/2015 11:30 AM

Test Case Tejal

ems, l1

EMS Institute

	Question Text	PtsEarned/Possible
POST ENCOUNTER		
1	Post enc text type question?	0/5
2	Post enc text type question?	0/5
3	Post enc text type question?	0/5
4	Post encounter 1-2 question?	0/5
5	Post encounter 1-2 question?	0/5
6	Post encounter 1-2 question?	0/5
POST ENCOUNTER Sub-Total		**0/30**
Total Raw Score		**0/30**
Total Percent		**0.00%**

Evaluation Response – Average Score

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Evaluation Response

Test Session New 4/15/2015 11:30 AM

Test Case Tejal

ems, l1

EMS Institute

	Question Text	PtsEarned/Possible
POST ENCOUNTER		
1	Post enc text type question?	0/5
2	Post enc text type question?	0/5
3	Post enc text type question?	0/5
4	Post encounter 1-2 question?	0/5
5	Post encounter 1-2 question?	0/5
6	Post encounter 1-2 question?	0/5
POST ENCOUNTER Average		**0**
Average		**0**

Score Report

Select Column Options

Display Format: Detailed

Options:
- ☑ Show Grading Scale Score *(Excludes Custom Scoring Questions)*
- ☑ Show Comments
- ☐ Show Question Text

Display Options: All items selected

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Score Detailed

B

The **Score Report—Detailed** includes a form score, case score, case category and question score including the percent correct and pass/fail results. In addition:

- All parameters will be printed at the report header section.
- Items will be printed in checklist order.
- By default, a page break will occur after every student.
- General comments will be printed beneath case/scenario name/id. Like Comment: comment text.
- A question comment will be printed beneath question text. Like Comment: comment text.
- The form name will be printed in a single row with score and result. Like CASE COLLECTION: Form Name SCORE: 100% RESULT: PASS.
- A Case will be printed in a single row with score and result. Like CASE: Case Name or SCENARIO: Scenario Name SCORE: 100% RESULT: PASS.
- A Category will be printed in a single row with score and result. Like CATEGORY: Category Name SCORE: 100% RESULT: PASS.
- The report will display/print formatted texts (i.e. rich text).
- If show grading score is checked, then category score will be printed as:
    - Grading score/Maximum grading (like 0.75/5 or 1.00/3).

Selected option/choice will be printed for each question within brackets. A sample report follows:

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Score - Detailed

1, Learner

8, SP

SIMULATIONiQ Enterprise

EMS

Question Text		Score (%)
Ab Pain 8/26/2013 9:04 AM	**86.90** Pass	
Ab Pain	**86.90** Pass	
History Taking (H)	**1.00\1** Pass	
Allergies (none) (Yes)		100.00
Anything make the pain better or worse must ask both for credit (better: curled in fetal position; worse: walking, movements) (Yes)		100.00
Appetite decreased (Yes)		100.00
Contraception (condoms occasionally) (Yes)		100.00
Diarrhea (no) (Yes)		100.00
Domestic Abuse (no) (No)		0.00
Drinking (rare) (No)		0.00
Dysuria (No)		0.00
Fever or chills (felt warm; yes, chills) (Yes)		100.00
General health: (healthy, no significant medical problems) (Yes)		100.00
h/o sexually transmitted infection (Yes)		100.00
Last menstrual period: (3 weeks ago, lighter than usual) (Yes)		100.00
Location of Pain: (right lower quadrant, much more than left) (Yes)		100.00

Score Summary

B

Select Column Options

Display Format: Summary

Options: ☐ Pass/Fail

Display Options: All items selected

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The **Score Report—Summary** includes a form score, case score and case category score including the percent correct and pass/fail results. Case and Category score will be printed in a tabular format. In addition:

- All parameters will be printed at report header section.
- By default, a page break will occur after every student.
- The header for Case/Scenario will be printed as “CASE NAME” or “SCENARIO NAME”.
- A second column will be printed as “CASE SCORE” or “SCENARIO SCORE”.
- The rest of columns will be Category names.
- The report prints all categories for a case. In one row, a maximum up to 6 categories will be printed. The rest of the categories will be printed on the next page.
- If the score is not available for the case/category then the score will be printed as “N/A”.

Whenever pass/fail is selected then score will be printed with pass/fail. Like **100.00 - Pass**.

A sample report appears below:

Score - Summary

1, Learner

Case/Scenario Name	Case/Scenario Score (%)	History Taking (H) (%)	Physical Exam (H) (%)
Ab Pain	86.90 Pass	86.21 Pass	87.50 Pass

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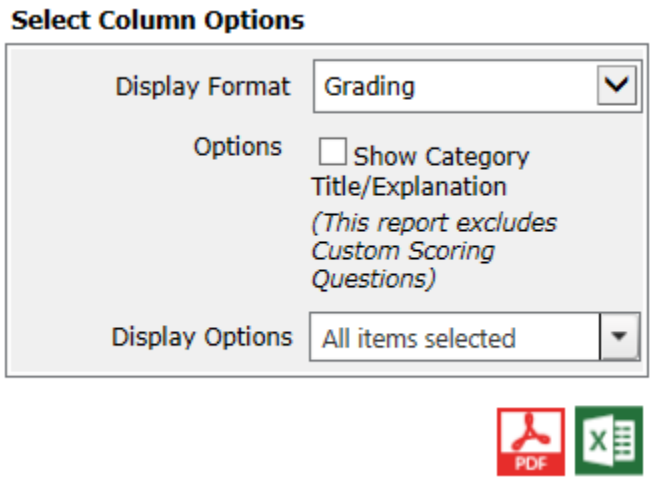
Score Grading

B



The **Score Report—Grading** includes include a category grading scale score. This will also print the title and description for the category. These title and description will be displayed only for administrators. In addition:

- All parameters will be printed at the report header section.
- Items will be printed in category order.
- A page break will occur after every student and encounter.
- The report will display/print formatted texts (i.e. rich text).
- Custom scoring questions will be excluded from this report.
- A legend will be printed in the page footer as "***Custom scoring items are excluded from this report.***"
- The caption for Session Name in the header will be printed as "Exercise."
- The caption for Session Number in the header will be printed as "Exercise."
- The Encounter number will be printed in the report header area.

A sample report appears below:

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Score - Grading

Ab Pain 8/26/2013 9:04 AM

Ab Pain

1, Learner

SIMULATIONiQ Enterprise

EMS

History Taking (H)	**Score:** 1.00\1
General health: (healthy, no significant medical problems)	Yes
General health: (healthy, no significant medical problems)	Yes
h/o sexually transmitted infection	No
Last menstrual period: (3 weeks ago, lighter than usual)	Yes
Location of Pain: (right lower quadrant, much more than left)	Yes
Medications (none)	Yes
Nausea and vomiting (yes nausea; no vomiting)	Yes
Pregnancies (never pregnant)	Yes
Previous surgery (none)	Yes
Quality of Pain: aching, then sharp	Yes
Severity of Pain. 8 out of 10 on a scale of 0 to 10)	Yes
Sexually active, monogamous	Yes
Smoking (no)	No
Student expresses concern for the patient's discomfort	Yes
Student introduces self to the patient	Yes
Student makes adequate eye contact with the patient	Yes
Vaginal discharge	Yes

Advanced Statistics

Select Column Options

Statistics Type: Kappa Statistics

Options: ☐ Statistics for Individual SPs

Display Options: All items selected

Kappa Statistics

B

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The **Advanced Statistics Report—Kappa Statistics** uses Kappa statistics to assess the accuracy of evaluation performed by an SP for each question. Generated by the completion of a substantial number of QA checklists, Kappa Statistics is an index which compares observer agreement against that which might be expected by chance. Possible values range from +1 (perfect agreement), 0 (no agreement above that expected by chance) to -1 (complete disagreement). In addition:

- The Kappa value is not calculated for custom scoring questions. In this case '-NA-' is displayed for Kappa Value.
- The report is for the prime evaluator only.
- The Pre/Post encounter will not be considered.
- All parameters will be printed at report header section except for student report.
- Each case will start with a new page.
- Dichotomous response types are optimal (e.g. True / False, Yes / No)
- Custom scoring questions (i.e. multiple choice) are not encouraged as they will skew this report

If Individual SP is selected then calculation will be based on individual SPs. Evaluator name will be displayed in the page header. Page break will occur after every evaluator.

A sample report appears below:

Advanced Statistics - Kappa Statistics

Ab Pain

Ab Pain

EMS

Question Text	N	Kappa Value
Location of Pain: (right lower quadrant, much more than left)	1	N.A.
Quality of Pain: aching, then sharp	1	N.A.
Severity of Pain. 8 out of 10 on a scale of 0 to 10)	1	N.A.
Anything make the pain better or worse must ask both for credit (better: curled in fetal position; worse: walking, movements)	1	N.A.
Appetite decreased	1	N.A.
Nausea and vomiting (yes nausea; no vomiting)	1	N.A.
Allergies (none)	1	N.A.
Contraception (condoms occasionally)	1	0.00
Diarrhea (no)	1	N.A.
Domestic Abuse (no)	1	N.A.

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Alpha Coefficient

The **Advanced Statistics—Alpha Coefficient Report** uses the Cronbach Alpha coefficient to measure the squared correlation between observed scores and true scores. Reliability is measured in terms of the ratio of true score variance to observed score variance. In addition:

- Calculations are done on the base of question score.
- All calculations are done to 6 decimal places, but the Alpha value is displayed with 4 decimal places.
- How categories will be shown:
  - If the report is being calculated for an individual case, then the pre encounter category will be excluded from the calculation. The post encounter category will not be shown in the report.
  - If the report is being generated for all cases without selecting the category based alpha, then calculations will be done for cases and in the place of category, “All” will be displayed.
    If category-based alpha is selected, then calculations will be based on each; categories and cases will be printed as “ALL CASES.” In this case, pre/post categories will be included and displayed.
- If Question is less than or equal to 1 then Alpha Value will be printed as ‘--NA--’.
- If Total Variance is 0, then Alpha Value will be printed as ‘--NA--’.
- All parameters will be printed at the report header section.

The option category based alpha value will be enabled only if case is selected as “All”.

A sample report appears below:

Advanced Statistics - Alpha Coefficient

SIMULATIONiQ Enterprise

EMS

Case/Scenario Name	Category Name	Alpha Value	Questions	N
All Cases/Scenarios	History Taking (H)	0.0000	25	1
All Cases/Scenarios	Physical Exam (H)	0.0000	13	1

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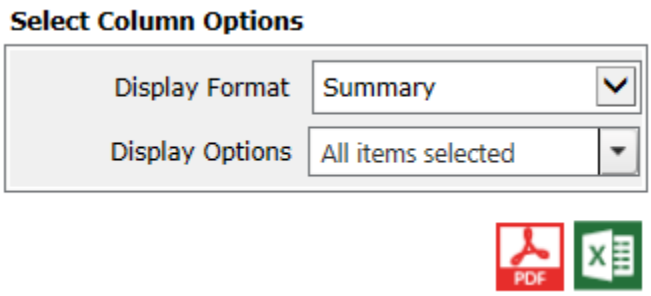
Item Analysis



Item Analysis Summary

B

The **Item Analysis – Summary Report** provides comprehensive item statistics organized by session or by case and allows for the analysis of the effectiveness or key validation of each item. In addition:

- All parameters will be printed at the report header section.
- "N.A." will be printed if statistics entry has an invalid value.

All items (checklist) will be printed in at the end of the report. The order will be checklist order.

A sample report follows:

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Item Analysis - Summary
Ab Pain
Ab Pain

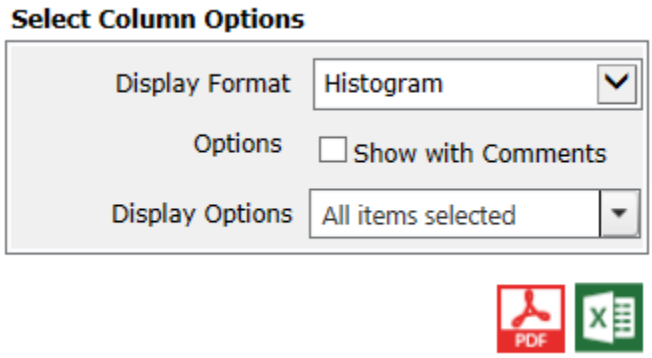
SIMULATIONiQ Enterprise

EMS

	Q-1	Q-2	Q-3	Q-4	Q-5	Q-6	Q-7	Q-8	Q-9	Q-10	Q-11
N	5	5	5	5	5	5	5	5	5	5	5
Number Missing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mean	1.00	1.00	0.60	0.80	0.80	0.80	0.80	1.00	1.00	1.00	1.00
Variance	0.00	0.00	0.24	0.16	0.16	0.16	0.16	0.00	0.00	0.00	0.00
SD	0.00	0.00	0.49	0.40	0.40	0.40	0.40	0.00	0.00	0.00	0.00
Standard Error	0.00	0.00	0.22	0.18	0.18	0.18	0.18	0.00	0.00	0.00	0.00
Minimum	1.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00
Maximum	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Range	0.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00
Sum Of Scores	5.00	5.00	3.00	4.00	4.00	4.00	4.00	5.00	5.00	5.00	5.00
Sum Of Squares	5.00	5.00	3.00	4.00	4.00	4.00	4.00	5.00	5.00	5.00	5.00
Skewness	N.A.	N.A.	-0.40	-1.60	-1.60	-1.60	-1.60	N.A.	N.A.	N.A.	N.A.
Kurtosis	N.A.	N.A.	-1.88	-0.23	-0.23	-0.23	-0.23	N.A.	N.A.	N.A.	N.A.
T Value	N.A.	N.A.	0.00	0.00	N.A.	N.A.	0.00	N.A.	N.A.	N.A.	N.A.
Percentile 25	1.00	1.00	0.27	0.53	0.53	0.53	0.53	1.00	1.00	1.00	1.00

Item Analysis Histogram

The **Item Analysis – Histogram Report** can be accessed as follows:



This report is displayed as a graph and details the percentage of students gaining credit for a checklist or post encounter item. In addition:

- All parameters will be printed at report header section.
- Items will be printed in checklist order.
- Text-type items will also be displayed.
- Each item will be separated by color.
- Category Name will be printed as section/group instead of printing with each question.
- Statistics will be displayed as horizontal bars. Up to 9 bars will have different colors.

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- The report will print as many bars as choices/options are defined for an item (question) in Enterprise.
- Export to MS Excel (.xls and .xlsx) is included. Details contain:
  - Data pool
  - Class
  - Case Id
  - Case Name
  - Category Id
  - Category Name
  - Question Id (sort order)
  - Question text
  - Sample size
  - All choices/options with following:
    - Id
    - Choice text
    - No. of attempts
    - Percentage of attempts

A sample report follows (**Show with Comments** checkbox is checked):

Item Analysis - Histogram

N3200

N3200 Hanan Gupta

EMS Institute - JUPITOR

POST ENCOUNTER

Do you have any other comments or suggestions to improve this simulation? If Yes, please explain. N= 11

Yes		4(36.36%)
No		7(63.64%)

Comments

I felt like maybe the microphone didn't hear me well when I was talking to the patient. The patient asked questions that made me think the people operating didn't hear what I said. The same thing also occured in post conference.

I was a good simulation.

Ensure that intructors and students are provided the same information to calculate the rates.

Really enjoyed the lab, I would like to see more complication aside from respiratory distress. The last few scenarios has been all regarding respiratory and that helps me feel confident in the pulmonary field but would like more exposure to cardiac and neurological.

Did you have an "aha" moment when you learned something new today? If yes, please explain. N= 11

Yes		10(90.91%)
No		1(9.09%)

Comments

Yes, the medications have me an aha moment. With Deb Beatty and our Instructor, Michelle, we discusses complications and patient teachings for Heparin and it really helped me put the whole picture together.

I finally felt more confident programming the pumps.

I re-learned the heparin protocol.

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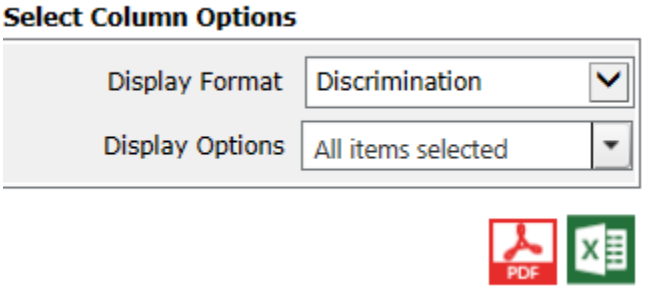
Item Analysis Discrimination



The **Item Analysis** – **Discrimination Report** quantifies the relationship of two variables. Individual examination item results are measured against those students who performed well and those students who performed poorly overall. For example, a positive point biserial tells us that those students who performed well on the examination answered that test item correctly. In addition:

- The report does not consider text type items (questions).
- All parameters are printed at the report header section.
- Items are printed in checklist order.
- An "*" sign will be displayed before *item no.* for the questions having Likert Scale or Custom Scoring options.
- For Likert Scale, *Correct Answer* will be the maximum score defined for the item.
- "Custom" will be displayed for *Correct Answer* if item is defined as custom scoring.
- The report has the capability to display *Response Frequencies* up to 9 choices/options.
- A legend is provided in the page footer as "***"*" Indicates that the question is either Likert Scale or Custom Scoring***"
- Un-attempted choices/options are identified in the Non Distractor column, multiple entries will be separated with a comma

This report will also be based on evaluation type and evaluator.

A sample report follows:

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Item Analysis - Discrimination

Ab Pain

Ab Pain

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Mean Score: 87.45 N: 1 Highest Score: 95.37 Max Score: 100.00

Median Score: 87.89 SD: 6.71 Lowest Score: 75.44

Q No.	Correct Group Responses			Point Biserial	Response Frequencies ***		Non Distractor
	Overall %	Upper 27 %	Lower 27 %		1	2	
20	0.00	100.00	0.00	0.00	4	1	
21	0.00	100.00	0.00	0.00	4	1	
22	0.00	100.00	0.00	0.00	4	1	
23	0.00	0.00	0.00	0.00	3	2	
24	0.00	0.00	0.00	0.00	3	2	
25	100.00	100.00	100.00	0.00	5	0	2
26	100.00	100.00	100.00	0.00	5	0	
27	100.00	100.00	100.00	0.00	5	0	2
28	100.00	100.00	100.00	0.00	5	0	
29	0.00	0.00	100.00	0.00	4	1	
30	0.00	0.00	100.00	0.00	4	1	
31	100.00	100.00	100.00	0.00	5	0	2
32	100.00	100.00	100.00	0.00	5	0	
33	0.00	100.00	0.00	0.00	4	1	
34	0.00	100.00	0.00	0.00	4	1	

Item Analysis Comments

Select Column Options

Display Format: Comments

Display Options: All items selected

The **Item Analysis – Comments Report** can be accessed as follows:

Display Options include All Items, Case Name, Learner Name, and/or Learner ID.

A sample report in .pdf format appears below:

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Item Analysis - Comments

N3200

N3200 Hanan Gupta

EMS Institute - JUPITOR

POST ENCOUNTER

Do you have any other comments or suggestions to improve this simulation? If Yes, please explain.

Comments

I felt like maybe the microphone didn't hear me well when I was talking to the patient. The patient asked questions that made me think the people operating didn't hear what I said. The same thing also occured in post conference.

I was a good simulation.

Ensure that intructors and students are provided the same information to calculate the rates.

Really enjoyed the lab, I would like to see more complication aside from respiratory distress. The last few scenarios has been all regarding respiratory and that helps me feel confident in the pulmonary field but would like more exposure to cardiac and neurological.

Did you have an "aha" moment when you learned something new today? If yes, please explain.

Comments

Yes, the medications have me an aha moment. With Deb Beatty and our Instructor, Michelle, we discusses complications and patient teachings for Heparin and it really helped me put the whole picture together.

I finally felt more confident programming the pumps.

I re-learned the heparin protocol.

That we adjust the flow rate on Heparin and how to enter it in the computer. It is important and helpful to leave a note on why you changed the flow rate, the change to, who verified the dose.

An "aha" moment when I learned something today was when my group calculated the heparin dosage and it ended up being different than the right dosage and we were not sure why. It turns out Mary was looking at a different protocol and that in a certain circumstance we were actually

Performance Statistics

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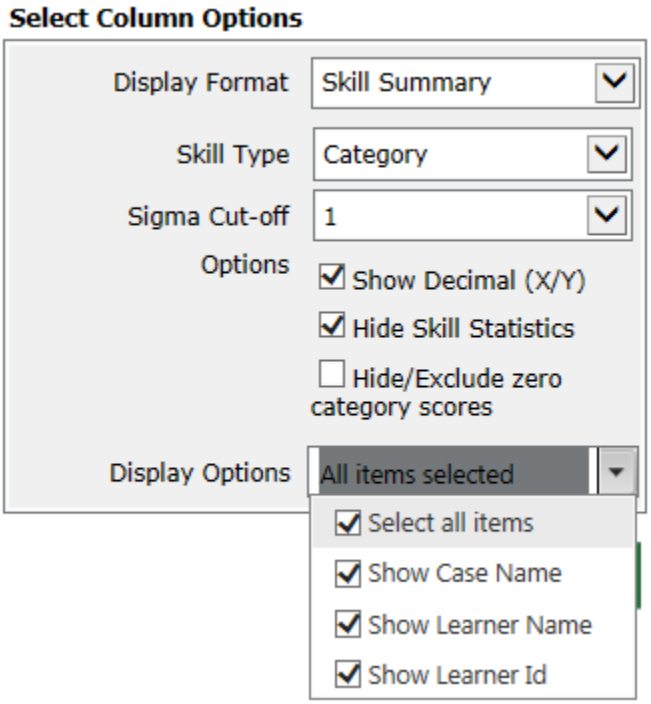

Performance Statistics Skill Summary

B

The **Performance Statistics – Skill Summary Report** is based on Category or Competency. The data will be displayed in a tabular format. Color legends make the report more readable. This report will be printed on a single page for a student so there will be limitation for maximum of 12 skills or 12 cases. In addition:

- All parameters are printed at the report header section.
- The Session Section (i.e. right bottom section where session/form statistics is displayed) has a double border to separate session statistics.
- If score is not available, then the cell will be empty.
- The first column is the name of skills (i.e. Category Group/Category/Competency), then the labels for Case/Scenario Statistics.
- The column headers will be Case/Scenario names and then skill statistics.
- Whenever “Show Decimal” is checked, then the XY value will be printed along with score.
- Whenever “Hide Statistics” is checked, then skill statistics will not be displayed.
- All calculations will exclude number missing criteria.
- Raw data can be exported to .xls or .xlsx formats.

If any student has more than 12 cases or more than 12 skills within data pool then system will display a message” *Unable to generate report in proper format for more than 12 Cases/Skills. Please select valid session date range.*”. Report will not be generated for these types of cases.

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A sample report appears below:

Performance Statistics - Skill Summary

1, Learner

SIMULATIONiQ Enterprise

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Case/ Category	Ab Pain	Skill Area Score	Skill Area Class Mean (N)
History Taking ...	86.21% 22/25	86.21% 22/25	88.2%(5)
Physical Exam (...	87.5% 11/13	87.5% 11/13	86.62%(5)
Case Total	86.9% 33/38	Total Test Score	Class Mean
Class Mean (N)	87.45%(5)	86.9% 33/38	87.45%(5)
Class StdDev	6.71%		
Case Range High	95.37%		
Case Range Low	75.44%		

LEGEND
> Mean + Two Std. Deviation
> Mean + One Std. Deviation
< Mean + One Std. Deviation
< Mean - One Std. Deviation
< Mean - Two Std. Deviation

Performance Statistics Learner Rank

B

Select Column Options

Display Format: Learner Rank

Statistics Type: Session

Report Type: Rank Order of Learners

Options: ☑ Category Based Statistics

Display Options: All items selected

The **Performance Statistics – Learner Rank Report** organizes student scores and provides class rank, top and bottom percentage scores and scores by a selected standard deviation above or below the mean.

In addition:

- All parameters are printed at the report header section.
- A page break will occur after selected entity (i.e. after form/Case/Category).

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- Whenever only Category is checked, then all statistics will be calculated across the data pool for the category. Otherwise, statistics calculation will be based on the category within the case within data pool. Also, the Cas/Scenario name will not be displayed if this is checked. This will be applicable only when Category is selected.
- Every optional selected option will be printed in the report header like:
    - **Report Type :** Students above 1 Standard Deviation
    - **Report Type :** Students below 1 Standard Deviation
    - **Report Type :** Students above 1 percentage
    - **Report Type :** Students below 1 percentage
    - **Report Type :** 50 percentage of Students at Top
    - **Report Type :** 50 percentage of Students at Bottom
    - **Report Type :** Students above Cutoff mark
    - **Report Type :** Students below Cutoff mark
    - **Report Type :** Rank order of Students
- This is how the report will be generated for different options:
    - **Rank Order of Students**
        - All students will be displayed within data pool in in the descending order of score. That means top to bottom.
    - **SD Above Mean**
        - All students whose score is greater or equals to than (***SD*** * provided SD) + ***Mean*** will be displayed within data pool in in the descending order of score.
    - **SD Below Mean**
        - All students whose score is less than ***Mean*** - (***SD*** * provided SD) will be displayed within data pool in in the descending order of score.
    - **Percentage Below Mean**
        - All students whose score is less than or equals to ***Mean*** - (provided Percentage value) will be displayed within data pool in in the descending order of score.
    - **Percentage Above Mean**
        - All students whose score is greater than or equals to ***Mean*** + (provided Percentage value) will be displayed within data pool in in the descending order of score.
    - **Percentage Top**
        - First get maximum number of rows within data pool for the entity in the ascending order of score. Say the maximum number is MAXID. Then get all students having row numbers between MAXID - ROUND(((Provided Percentage value* MAXID)/ 100),0) and MAXID in the descending order of score.
    - **Percentage Bottom**
        - First get maximum number of rows within data pool for the entity in the ascending order of score. Say the maximum number is MAXID. Then get all students having row numbers less than or equals to ((Provided Percentage value* MAXID)/ 100) in the descending order of score.
    - **Below Cut Off**
        - All students, whose score is less than the defined cut-off (minimum passing) score for the entity, will be displayed within data pool in in the descending order of score.
    - **Above Cut Off**

All students whose score is greater than or equals to the defined cut-off (minimum passing) score for the entity will be displayed within data pool in in the descending order of score.

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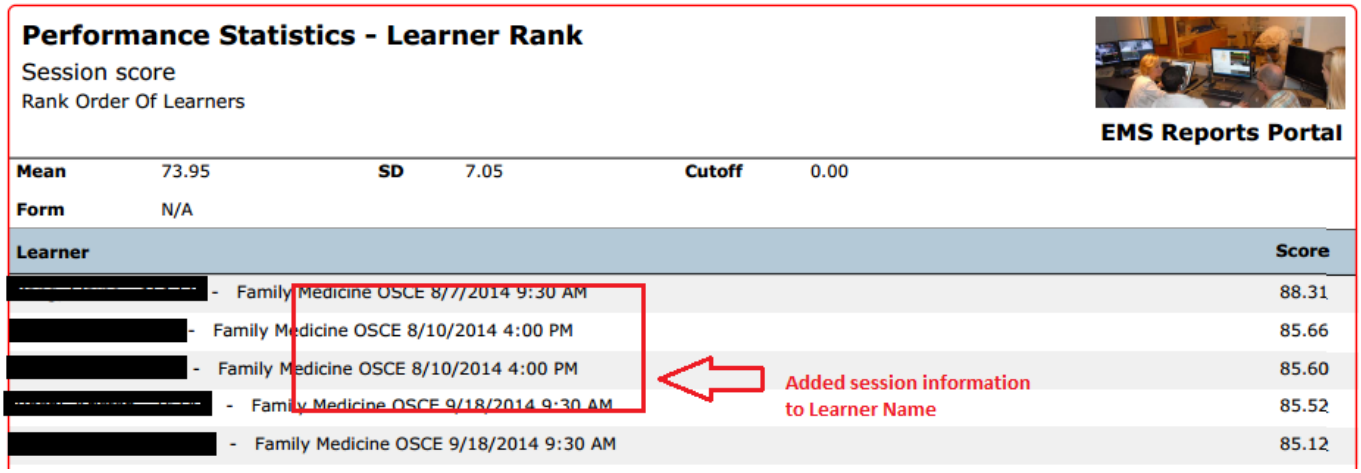
Note: To generate this report, case collection must be used for the session in which the learner participated.

A sample report appears below:



Performance Statistics - Learner Rank

Session score

Rank Order Of Learners

EMS Reports Portal

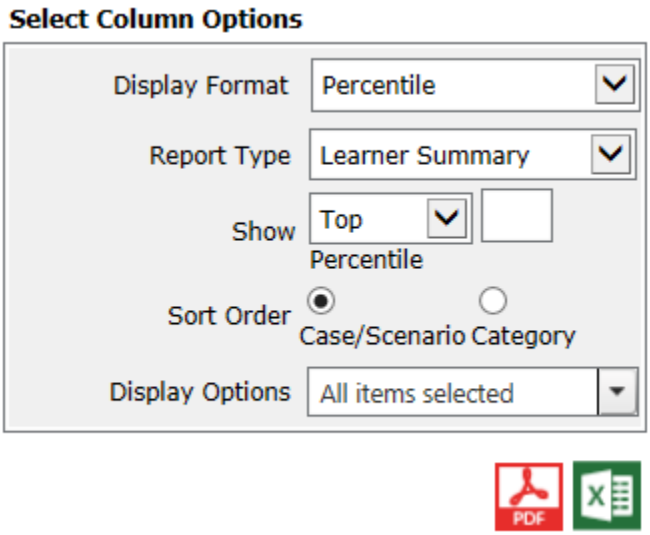
Mean	73.95	**SD**	7.05	**Cutoff**	0.00
Form	N/A				

Learner	Score
[redacted] - Family Medicine OSCE 8/7/2014 9:30 AM	88.31
[redacted] - Family Medicine OSCE 8/10/2014 4:00 PM	85.66
[redacted] - Family Medicine OSCE 8/10/2014 4:00 PM	85.60
[redacted] - Family Medicine OSCE 9/18/2014 9:30 AM	85.52
[redacted] - Family Medicine OSCE 9/18/2014 9:30 AM	85.12

Added session information to Learner Name

Performance Statistics Percentile

B



Select Column Options

Display Format: Percentile

Report Type: Learner Summary

Show: Top Percentile

Sort Order: Case/Scenario Category

Display Options: All items selected

The **Performance Statistics – Percentile Score Report** identifies percentile scores for the entire cohort, an individual student, or the defined top and bottom percentage of student scores over a selected period of time. Student Score refers to the individual students score for the session, category, etc. In addition:

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- The order of the report is:
    - If by Case order:
        - By default, ascending order of case score
        - Bottom percentile - ascending order of case score
        - Top percentile - descending order of case score
    - If by Category order:
        - By default, ascending order of category score and ascending order of case score
        - Bottom percentile - ascending order of category score and ascending order of case score
        - Top percentile - descending order of category score and descending order of case score

- Categories are printed in the order of category id.
- If student specific option is selected, then the page break will occur after each student. Calculation will be based on each student. An overall score will be displayed in this case.
- Legend will be printed as:
    - SS : Student Score
    - PR : Percentile
- All parameters will be printed at the report header section.
- If any cell does not have any value, then the cell will be displayed as "---" (i.e. if any category does not belong to a case then value for the category will be printed as "---").
- If all categories are not fitting in a single page, then the page breaks at 10 categories each page.
- The student name is printed in first column if summary is selected; otherwise, the case/scenario name will be printed in first column.
- If ***Show Case Score*** is selected, then the case/scenario score is displayed; otherwise, the overall score will be displayed for each student.

If ***Show Case Id*** is selected then case id will be printed instead of case name.

A sample report follows:

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Performance Statistics - Percentile
Angeli, Marco

SIMULATIONiQ Enterprise

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	Case/Scenario Score(%)		Medication Administration(%)		Family History (%)		Chest Pain(%)		Dr./Patient Hygiene(%)	
Case/Scenario ID	SS	PR	SS	PR	SS	PR	SS	PR	SS	PR
283	22.22	0.00	66.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	28.46	100.00	66.67	0.00	0.00	0.00	50.00	0.00	0.00	0.00
Overall Score	27.47	0.00	66.67	0.00	0.00	0.00	33.33	0.00	0.00	0.00

Performance Statistics Class Summary

B

Select Column Options

Display Format: Class Summary

Options: Statistics / Category Scores / Learner Specific

Display Options: All items selected

The **Performance Statistics – Class Summary Report** obtains complete case or case category statistics for the class involved in a session or range of sessions. The report provides score and average data for each learner per case, category and overall. In addition:

- All parameters will be printed at report header section.
- All calculations will exclude ***Number Missing*** criteria.
- Whenever summary is selected, Enterprise will print session statistics first. After printing the session statistics, a page break will occur and Enterprise will start printing case statistics.
- The order of summary will be by session id.
- In case of Case/Category report :
    - A maximum of 3 categories will be displayed for Case/Category report (the report prints all categories in multiple pages).
    - A legend will be displayed in the Case/Category report as:
        - N – Sample Size

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- M – Mean
- S – Standard Deviation
- Min – Minimum
- Max – Maximum
- P – Min. Pass %

- Case.Scenario name appears first.

In case of simulation scenario, role statistics will be calculated. Role statistics will come beneath each scenario.

A sample for the Statistics option follows:

Performance Statistics - Class Summary
02/13/2014 - 3/28/14;

SIMULATIONiQ Enterprise

EMS

Case/Scenario Name	Total	Team	Male	Female	Other	Mean	Variance	SD	Minimum	Maximum	Range	Pass
Liz Training Case	1	0	1	0	0	50.00	0.00	0.00	50.00	50.00	0.00	N/A
2 minute scenario	2	0	2	0	0	21.88	478.52	21.88	0.00	43.75	43.75	N/A
Anaphylaxis apx	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	N/A
Ab Pain	1	0	1	0	0	42.72	0.00	0.00	42.72	42.72	0.00	70
LM_Training Case w Survey	2	0	2	0	0	8.34	69.47	8.34	0.00	16.67	16.67	N/A
AS practice	1	0	1	0	0	0.00	0.00	0.00	0.00	0.00	0.00	80
AAM - Donna Pall C1	1	0	1	0	0	23.33	0.00	0.00	23.33	23.33	0.00	N/A
PA OSCE Abdominal	4	0	4	0	0	95.84	52.04	7.21	83.34	100.00	16.66	70

A learner-specific sample follows:

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Performance Statistics - Class Summary

[redacted] Student name

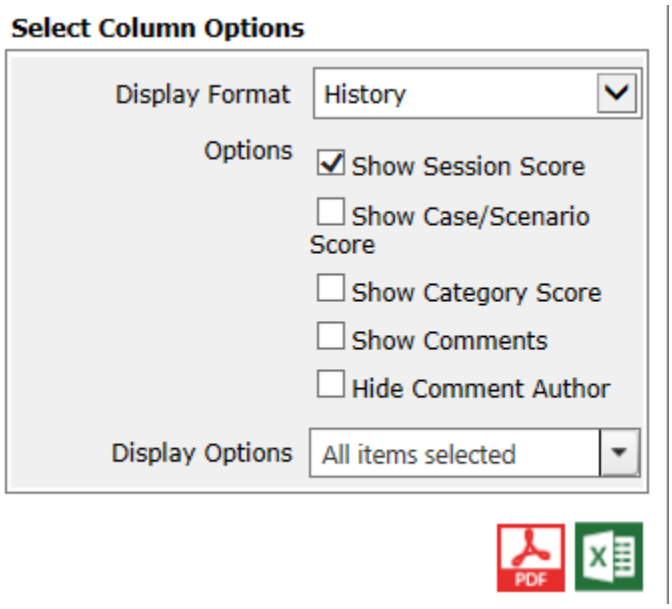
[redacted] Session name and date time

EMS Reports Portal

	Case/Scenario Score(%)		History(%)		Information Sharing(%)		Physical Exam(%)		Pt / Physician 2014(%)	
Case/Scenario Name	SS	AVG	SS	AVG	SS	AVG	SS	AVG	SS	AVG
Brad McGee 2014	79.49	50.00	69.23	100.00	---	---	69.23	100.00	100.00	100.00
Ethan Corey 2014	40.04	50.00	52.94	100.00	---	---	44.44	100.00	22.73	50.00
Josefina Velasquez 2014	79.08	100.00	57.14	100.00	---	---	83.33	100.00	95.83	100.00
Overall Score	66.20	50.00	59.77	100.00	---	---	65.67	100.00	72.85	50.00

Performance Statistics History

B



The **Performance Statistics – History Report** provides statistical information for individual student history including comparison to class means and comments by evaluators. Also displays general case comments by the SP or faculty evaluator.

In addition:

- All parameters will be printed at report header section.
- All calculation will exclude ***Number Missing*** criteria.
- Each student will start with a new page.
- Whenever show question comment is selected then question comments will also be displayed for each student (if any) after printing details. The heading for this section is “Standardized Patient Question Comments”. Question comments will be printed as:

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- Category : Category Name (Case: Case Name) (font will be Arial, 9.75pt, style=Bold)
  - Q No
  - Question Text
  - Comments: Comment (start with new line)

  Example:

  Q Question 1 YesNo

  Comments : 11/15/2011 - comment 1 spmal

- SP/Evaluator comments will be printed for each student (if any) after printing details. The heading for this section will be "Standardized Patient Comments." General comments will be printed as:
  - Case/Scenario Name : comment

  Example:

  Sample Case for Repo : general comment 1 spmal (prime)
- Based on selected scores, scores will be printed. Scores/details will be printed in the following order:
  - If Session Score is selected, then session score will be printed first.
  - If Case/Scenario score is selected, then case/scenario score will be printed beneath session score (if applicable).
  - If Category score is selected then category score will be printed beneath case/scenario score (if applicable).
- During export to .xls or .xlsx, Enterprise will export the data in following manner:
  - The xls or .xlsx file will have one sheet which contains the score/statistics data. The title of the sheet will be "StudentPerformanceHistory."
  - The xls or .xlsx file will have another sheet containing SP/Evaluator comments. The title of the sheet will be "GeneralComments."
  - The xls or .xlsx file will have another sheet containing question comments (if applicable). The title of the sheet will be "QuestionComments."

All comments must be within data pool. The report shows the category scored of evaluations completed by evaluators, and the pre- and post-assessment scores completed by the learners, along with the standard deviation from the mean.

A sample report follows:

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Performance Statistics - History
1, Learner
02/13/2014 - 3/28/14;

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Session/Case/Category	N	Score	Mean	Minimum	Maximum	Range	Pass
Liz's Case 2/18/2014 2:42 PM	1	50.00	50.00	50.00	50.00	0.00	0.00
CRAIG-EHR_TEST 2/24/2014 11:36 AM	0	0.00	0.00	0.00	0.00	0.00	0.00
CRAIG TEST 3/4/2014 8:35 AM	0	0.00	0.00	0.00	0.00	0.00	0.00
SP Cases_LM 3/10/2014 5:45 PM	3	100.00	100.00	100.00	100.00	0.00	0.00
Craig-SOAP Test 3/18/2014 10:20 AM	1	0.00	0.00	0.00	0.00	0.00	0.00
CRAIG TEST 3/19/2014 4:10 PM	0	0.00	0.00	0.00	0.00	0.00	0.00

Performance Statistics Chart

B

Select Column Options

Display Format: Chart
Report Type: Individual Performance
Based On: Session
☐ Bar Chart
Display Options: All items selected

The **Performance Statistics – Chart Report** displays the information in graph form and outlines the student performance as compared to the range of examinee scores, and the examinee average score. Individual performance information may be organized by Form, Case, Category or Category Group. An individual **Student Session Scores** report may be generated as well.

The Chart Report can also be shown in bar graph form if the following checkbox is selected:

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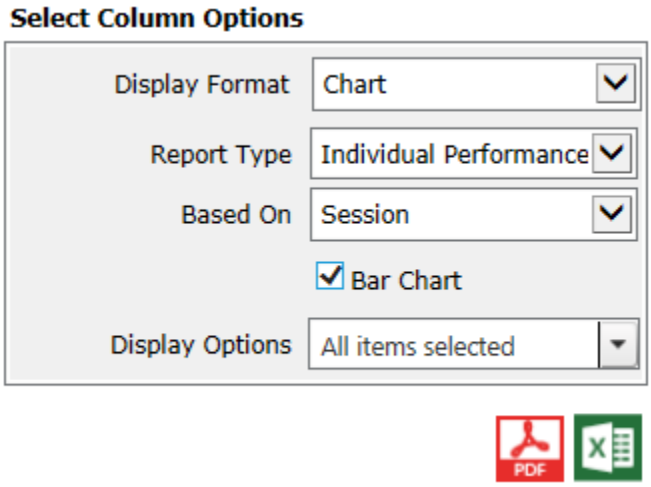
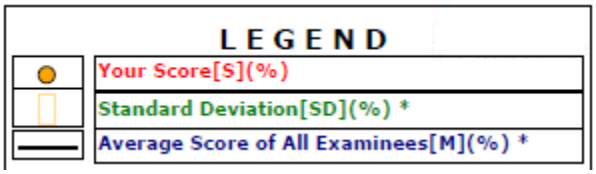


In addition:

- All parameters will be printed at report header section.
- A legend will be printed as "** Mean and Standard Deviation Calculated from Data Pool between <Session From Date> to Session To Date (Session Name)"*
- Also a legend will be printed for graph as:



- Whenever show graph value is checked, then graph values will be displayed.
- Whenever display decimal is checked, then graph value with 2 decimal places will be displayed.
- Calculation will be as:
  - Form statistics will be based on case/scenario scores
  - Case/scenario statistics will be based on category score
  - Category statistics will be based on category scores but case/scenario names appear on x-axis.
  - Category Group statistics will be based on category group scores, but case/scenario names will come on x-axis. If show session score is checked, then one set (SD/M/S) for session score will also be there. The session date and number will be on the x-axis.
- Y-axis will start from 0 and end at 100. The interval mark will be on every 10 value. Mark value will be displayed for every 20.
- X-axis will be case - scenario/category/category group names.
- Graph Values will be printed as:
  - SD in green color. Example :SD=6.57
  - Mean in blue color. Example : M=83.84
  - Score in red color. Example : S=75.00
- Graph rendering will be same as shown in sample report.
- If any value is negative then system will treat as 0.
- Student Session score report has different type of graph. This will be:

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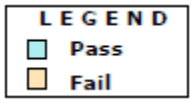
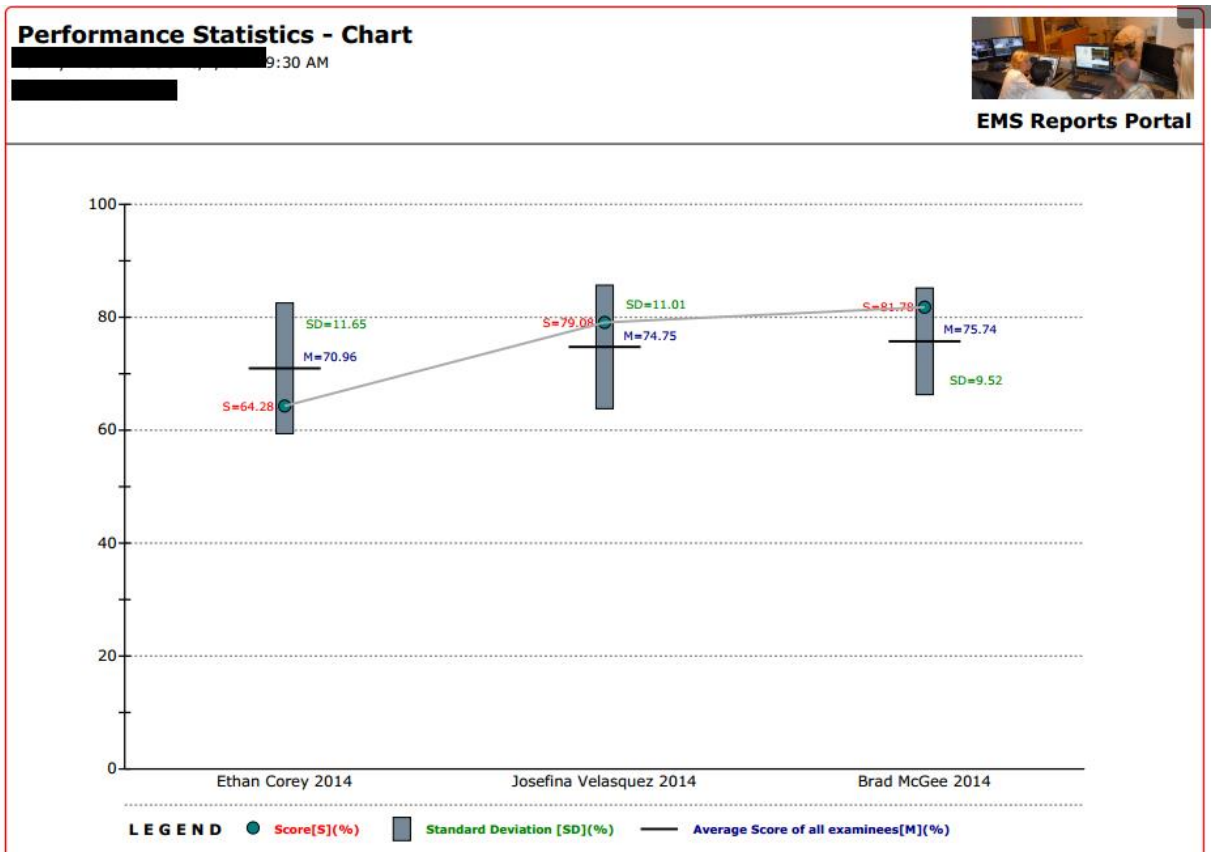
- A legend will be displayed as follows:



- X-axis will have percentage score from 0 to 100, with interval as 10.
- Header will contain a value like a parameter as History: Scores Between the Test Dates <session from date> and <session to date>.
- All session scores will be printed in the order for session date.
- Session information will be printed as:
  - Session date – Form Name: <form name> - Session Name : <session name> - Score : <score>. For example:

Sep 17 2008 - Form Name: EPC 3 2007 - Session Name : EPC3 - Score : 94.29

A sample report follows:



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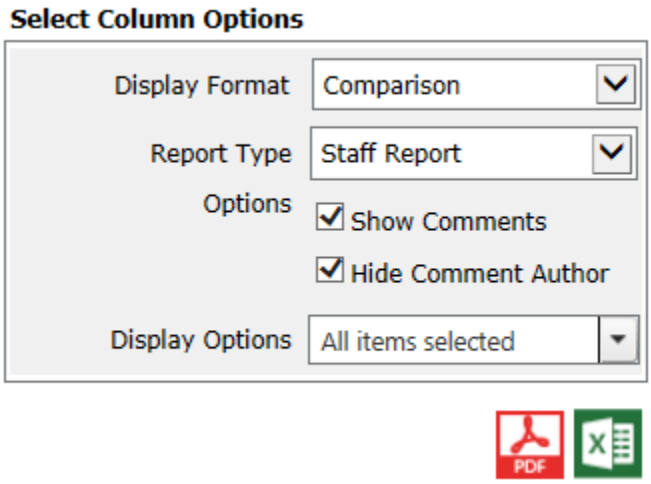
Note: The Individual performance report was modified (above) so that the standard deviation is one point above and one point below the mean. This may result in some reports where the bars for the mean and standard deviation may go above 100.

Performance Statistics Comparison

B



The **Performance Statistics – Comparison Report** provides statistical information for individual student performance including comparison to class means and comments by evaluators. You can generate two reports for this category:

Staff Report: individual student performance including comparison to class means and comments by evaluators. Includes the overall number "N" for the event.

Student Report: individual student performance including comparison to class means and comments by evaluators. This report is appropriate for the student audience as it does not display the session name and date range, not the overall number of students involved in the event or range of events.

In addition:

- All parameters will be printed at report header section except for student report.
- All calculation will exclude ***Number Missing*** criteria.
- Each student will start with a new page.
- SP/Evaluator comments will be printed for each student (if any) after printing details. Heading for this section will be “Standardized Patient Comments”. General comments will be printed as:
    - Case/Scenario Name : comment

    Example:

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Sample Case for Repo : general comment 1 small (prime)
Sample Case for Repo : (Post Encounter) category comment 1 spmal (prime)

- Scores/details will be printed in the following order:
  - Form score will be printed first.
  - Case\Scenario score will be printed beneath form score
  - Category score will be printed beneath case score.

- If Student report is selected, then:
  - Following Detail columns will be displayed:
    - Score
    - Class Mean
    - Minimum
    - Maximum
    - Range
    - Class StdDev
  - Score/Statistics values will be displayed as rounded with 0 unless it is mentioned with "Show decimal."
  - Report name will be the session name.
  - Only the following parameters will be printed:
    - Session Name
    - Student Name
    - Session Date range
    - Branch

- If Staff report is selected, then:
  - The following Detail columns will be displayed:
    - Total (Sample size)
    - Score
    - Class Mean
    - Minimum
    - Maximum
    - Range
    - Passing Score

All comments must be within data pool. A sample report follows:

Performance Statistics →Comparison →Staff Report

N value column position moved from 1st column to 2nd

N, mean, minimum, maximum and Range values are based on entire data pool selected for this report.

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Performance Statistics - Comparison

[redacted]

8/4/2014 - 9/30/2014;

EMS Reports Portal

Session/Case/Category	Score	N	Mean	Minimum	Maximum	Range	SD
Family Medicine OSCE 8/7/2014 9:30 AM	75.05	76	73.95	55.97	88.31	32.34	7.05
Brad McGee 2014	81.78	68	75.74	50.35	92.31	41.96	9.52
History	69.23	68	81.79	38.46	100.00	61.54	13.89
Physical Exam	69.23	68	56.34	7.69	92.31	84.62	19.18
Pt / Physician 2014	100.00	68	87.43	59.09	100.00	40.91	11.35

Added N value column.
N, Mean, Minimum, Maximun and Range values are based on entire data pool selected for this report.

Performance Statistics →Comparison →Learner Specific Report

Added **N** value column.

N, mean, minimum, maximum and Range values are based on entire data pool selected for this report.

Performance Statistics - Comparison

[redacted] ⇦ Student name

8/4/2014 - 9/30/2014;

EMS Reports Portal

Session/Case/Category	Score	N	Mean	Minimum	Maximum	Range	Pass
Family Medicine OSCE 08/07/2014 9:30 AM	75.05	76	73.95	55.97	88.31	32.34	0.00
Brad McGee 2014	81.78	68	75.74	50.35	92.31	41.96	70.00
History	69.23	68	81.79	38.46	100.00	61.54	0.00
Physical Exam	69.23	68	56.34	7.69	92.31	84.62	0.00
Pt / Physician 2014	100.00	68	87.43	59.09	100.00	40.91	0.00

N - value data is printing in 2nd column insted of 1st column
N, Mean, Minimum, Maximun and Range values are based on entire data pool selected for this report.

SP Performance

The **SP Performance Report** can be accessed from the following location:

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Select Column Options

Display Format: SP Average Score

SP Average Score

The **SP Average Score Report** generates the average case and category score by a standardized patient. This report also assists the SP Trainer in comparing SP performance. This report also compares scores for all SPs assigned to a case, compare case scores within a form, and compares an individual SP over a period of time.

A sample report appears below:

SP Performance - Average Score

SP Name	N	Case/Scenario Name	Score (%)	Knowledge (%)	Chest Pain(%)	Physical Exam Y/N(%)
SP, John	6	Indigestion	4.76	50	0	-22.22

SP Statistics by SP

Select Column Options

Display Format: SP Statistics by SP

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The **SP Statistics by SP Report** allows for the review and comparison of individual SP statistics. This includes the total number of SPs within the data pool for a case, represented by the N(c) value, including the composite average of correct responses, along with the minimum and maximum number of correct responses, range, and average score.

A sample report follows:

SP Performance - Statistics by SP
1, SP

EMS

Case/Scenario Name	N(c)	Composite Avg.	N	Average Score	Maximum	Minimum	Range	Min Pass
Sarah Worth	3	62.96	3	62.96	81.25	31.25	50	70
Communication Skills	3	50	3	50	62.5	25	37.5	70
Physical Exam 1-3	1	50	1	50	50	50	0	70
Knowledge	3	66.67	3	66.67	100	0	100	70
Physical Exam Y/N	1	66.67	1	66.67	66.67	66.67	0	0
infection controller	1	100	1	100	100	100	0	50
Shortness of Breath	1	83.33	1	83.33	83.33	83.33	0	50
Chest Pain	1	75	1	100	100	100	0	50
Physical Exam Y/N	1	83.33	1	66.67	66.67	66.67	0	0
Athlete Injured Knee	4	83.33	1	83.33	83.33	83.33	0	50
Physical Exam 1-3	4	83.33	1	83.33	83.33	83.33	0	70

SP Statistics by Case

Select Column Options

Display Format SP Statistics by Case

The **SP Statistics by Case Report** provides details of the SP performance by case and assessment category within that case. This includes the minimum and maximum number of correct responses, range, and average score.

A sample report follows:

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SP Performance - Statistics by Case

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Case/Scenario Name	Sarah Worth
Composite Avg.	68.33

SP Name	N	Average Score	Maximum	Minimum	Range	Min Pass
1, SP	1	68.33	68.33	68.33	0	70

Standardized Score

Select Column Options

Display Format	Chart
Statistics Type	Session
SD	
Mean	
Score Increment	1
Options	☐ Show Actual Score
Display Options	All items selected

Standardized Score Chart

B

The Standardized Score—Chart Report compares actual scores for a session or group of sessions with a standardized score based on a single mean and standard deviation. The report draws a bell curve based on the standard deviation and mean selected, for the period of time specified. The report may use Form scores, Case scores or Category scores.

In addition:

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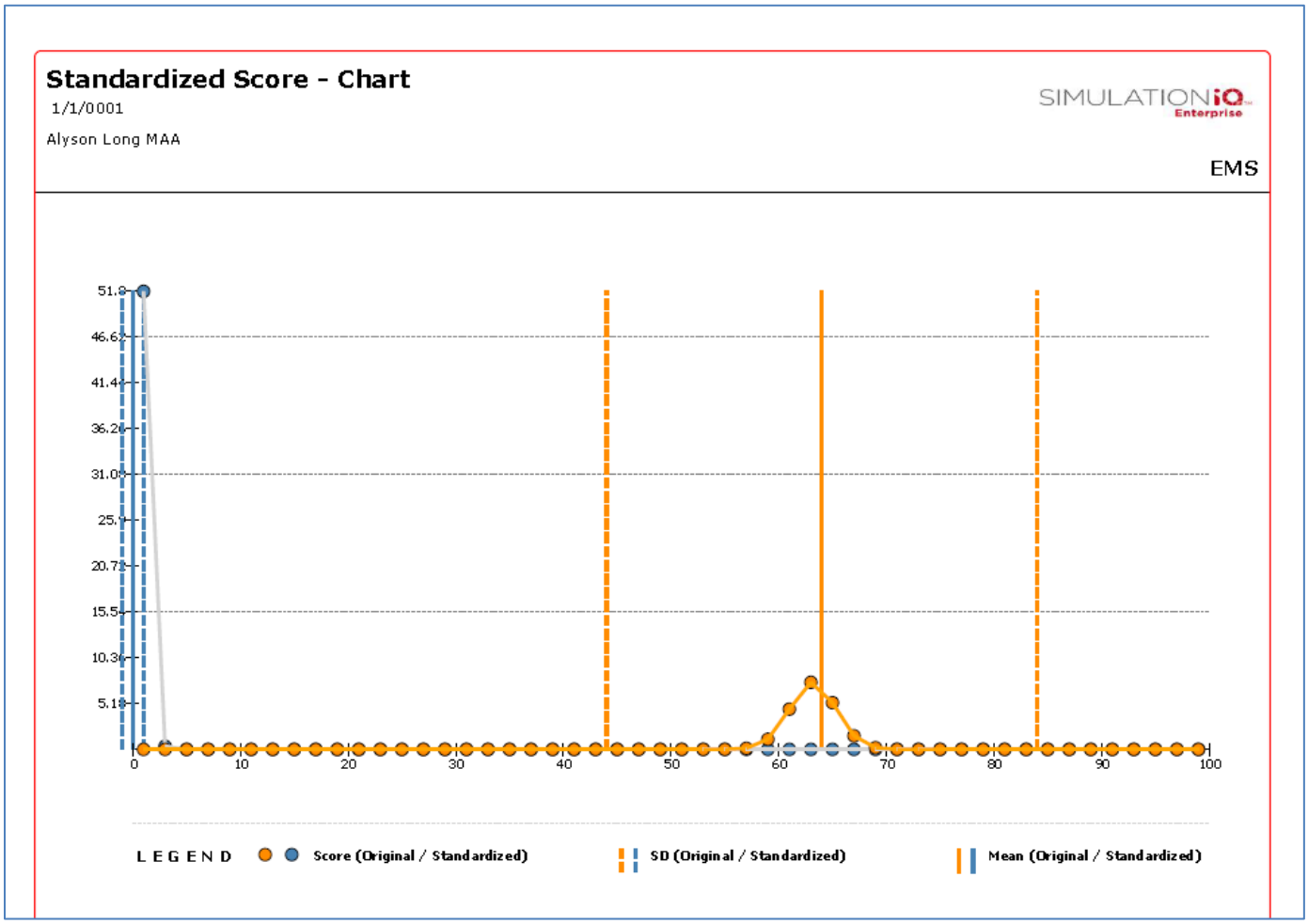
- Graph for each Form/Case-Scenario/Category will be displayed on a single page.
- A legend will be displayed as "*Mean and SD calculated from the Data Pool between the dates <From Session Date - Number>to < To Session Date - Number > (where Session Name is <Session Name>) (Total Population : <Sample Size>)*"
- Raw data can also be exported in .xls and .xlsx files for chart.
- The Y-axis value is displayed up to 2 decimal places.
- Page layout is landscape for graph.
- All parameters will be printed at report header section.

Score increment values will be from 1 to 10. A sample report follows:



Standardized Score Learner Specific

B

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Select Column Options

Display Format	Learner Specific
Statistics Type	Session
SD	
Mean	
Display Options	All items selected

The **Standardized Score—Learner Specific Report** to compare actual scores for a session or group of sessions with a standardized score based on a single mean and standard deviation. The report displays scores in a tabular format based on the standard deviation and mean selected, for the period of time specified. The report may use Form scores, Case scores, Category Group scores or Category scores.

In addition:

- Each student will start with a new page.
- A legend will be displayed as "*Mean and SD calculated from the Data Pool between the dates <From Session Date - Number>to < To Session Date - Number > (where Session Name is <Session Name>) (Total Population : <Sample Size>)*"
- Raw data can also be exported in .xls and .xlsx files for chart.
- All calculations having decimal values will be done with 10 decimal places.

All parameters will be printed at report header section. A sample report follows:

Standardized Score - Learner Specific
1, Learner
04/21/2014 - 07/21/2014;

SIMULATIONiQ Enterprise

EMS

Case/Scenario Name	Standardized Score	Score
CPR Bruce Wayne	NaN	0.00
Jeff w alkers	NaN	100.00
7 minutes PA1A	1.50	66.67
Sarah Worth_Copy2	NaN	0.00
Patient note	1.50	86.00
Gastrointestinal	1.50	66.67

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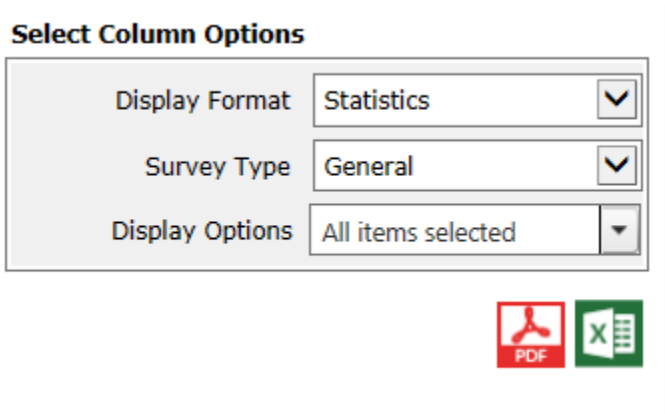
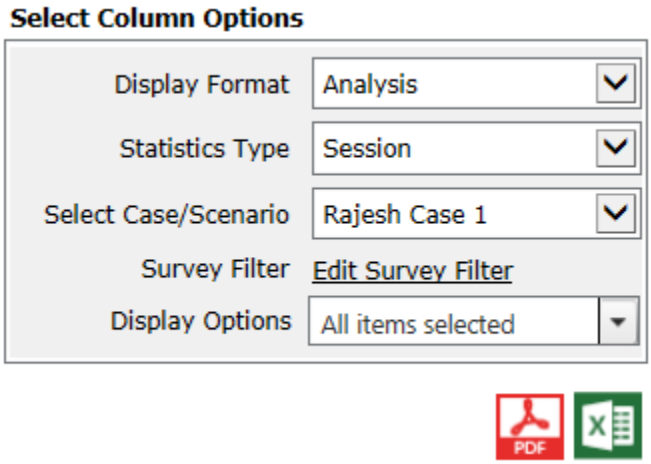
Survey Analysis

The **Survey Analysis Report** can be accessed from the following location:



How to Run a Survey Analysis Report:

Case level "Analysis" considers the Performance Assessment score and the survey responses within the Case. Select whether to display the Session score, Case/Scenario, Category or Category Group scores.



1. Select the **Date Range** and/or **Session name** using the Search filters. Then select the Case you want to analyze.

1. Select the type (**Session**, **Case/Scenario**, **Category**, or **Category Group**) of statistics generate based on the Performance Assessment scores.

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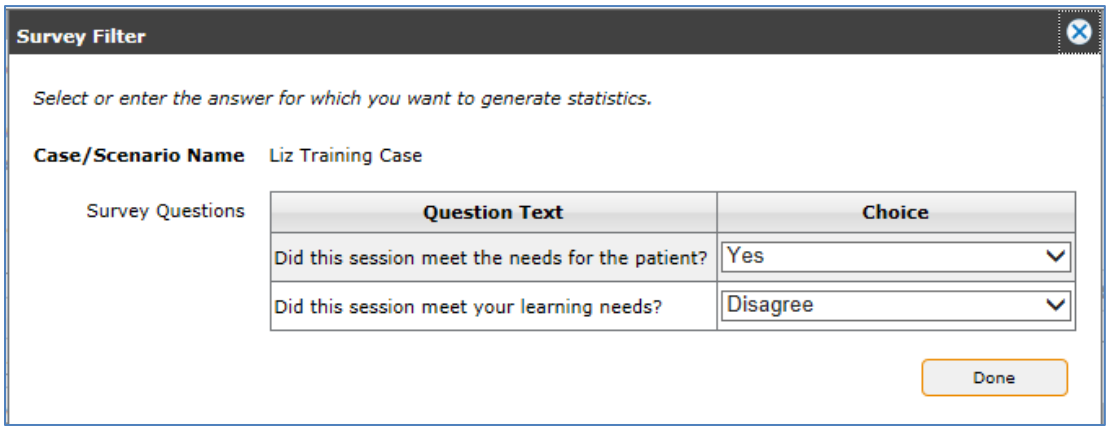
2. Click **Edit Survey Filter** to select the statistics for only those respondents that chose those responses.



3. Click **Done**.

Survery Analysis Statistics

The **Survey Analysis** – **Statistics Report** displays the responses to the survey items. These surveys will be Session or General (Anonymous). Text type questions will be displayed as well as the tabulation and percentage of students answering a yes/no or multiple choice question.

In addition:

- Question text and sample size will be printed in one row.
- Headers include the following columns:
  - Option Text
  - No. Of Responses
  - Percentage %
- This report considers text type items (questions). Answer text for the question will be displayed for each respondent.
- All parameters will be printed at report header section.
- Items will be printed in checklist and response text order.
- In case of course survey
  - Survey name will be asked. Survey names will be loaded from database.
- In case of general survey
  - Survey Name will be asked.
  - User Type will be asked. These types will be loaded from database. These will be Learner, Educator and SP.
  - “All Responses”, “Learner Responses”, “Educator Responses” and “SP Responses” are printed in the report header for All, Learner, Educator and SP user types respectively.
  - If any user type does not respond to the selected Survey, then the message will be displayed as ”None of the user(s) submitted the survey yet.”

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- The report print as many choices as defined for an item (question) in Enterprise.
- Export to MS Excel is provided. Details contain:
    - Data pool
    - Class
    - Case Id
    - Case Name
    - Category Id
    - Category Name
    - Question Id (sort order)
    - Question text
    - Answer Text (for text type question)
    - Sample size
    - All choices/options with following:
        - Id
        - Choice text
        - No. of attempts
        - Percentage of attempts

A sample report follows:

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Survey Analysis - Statistics

Simulation Effectiveness Survey

General

SIMULATIONiQ™ Enterprise

EMS

Effectiveness Survey

Question Text	Choice Text	N	Percentage
Did this session meet the needs of the patient?		10	
	Yes	*7*	*70.00*
	No	*3*	*30.00*
Have you encountered a case involving multiple color changing spells before today?		1	
	Yes	*0*	*0.00*
	No	*0*	*0.00*
On a scale of 1-4, rate the effectiveness of this session in terms of skill improvement.		10	
	1	*0*	*0.00*
	2	*2*	*20.00*
	3	*4*	*40.00*
	4	*4*	*40.00*
On a scale of 1-4, how challenging was the simulation?		10	
	1	*0*	*0.00*
	2	*3*	*30.00*
	3	*2*	*20.00*
	4	*5*	*50.00*

Analysis

B

Select Column Options

Display Format	Analysis
Statistics Type	Session
Select Case/Scenario	Rajesh Case 1
Survey Filter	Edit Survey Filter
Display Options	All items selected

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The **Survey Analysis – Analysis Report** displays some statistical value based on provided answers for survey questions. This report will be generated for encounter surveys only. It correlates the ***case-level survey*** response with the scores of the respondent group.

In addition:

- There are two sections for the report. These are:
  - Survey Questions:
    - This section displays the survey questions with provided answers, including the following columns:
      - Question No.
      - Question text
      - Selected Choice (text type answers are also displayed here)
  - Survey Statistics:
    - This section displays the survey statistics. This has the following columns:
      - S.No.
      - Name
      - Mean
      - Selected Mean
      - SD
      - Selected SD
      - Sample Size
      - Selected Sample Size
- All parameters will be printed at report header section.
- Items will be printed in checklist order.
- Export to MS Excel (.xls and .xlsx formats) is provided. The Excel file will have two sheets. One is for the Question List and another one is for statistics detail. Sheet names will be "QuestionList" and "Details" respectively.
- Whenever the "Set Survey Filter" button is clicked, a popup is opened to set survey filter values.
- The caption for the button "Set Survey Filter" is changed to "Change Survey Filter" after setting the survey filter values.

Calculations will be done for the selected statistics type (i.e. Form/Case/Category/Category Group).

A sample report follows:

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Survey Analysis - Analysis
Liz Training Case

SIMULATIONiQ Enterprise

EMS

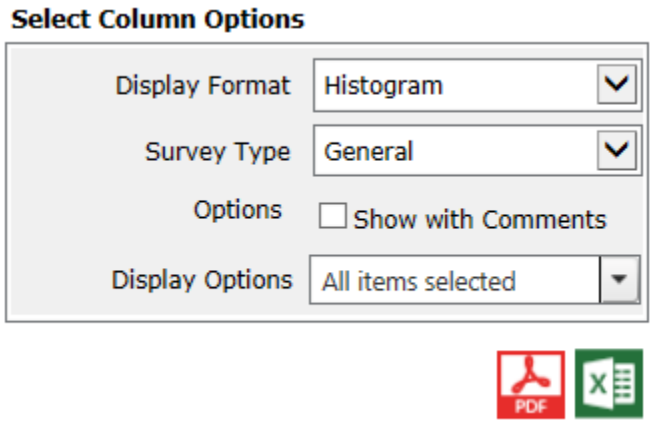
Question Text	Selected Choice
Did this session meet the needs for the patient?	Yes
Did this session meet your learning needs?	Disagree

Name	Mean	Selected Mean	SD	Selected SD	N	Selected N
Chest Pain	100.00	0.00	0.00	0.00	2	0
Awareness	-0.50	0.00	0.00	0.00	1	0
POST ENCOUNTER	100.00	0.00	0.00	0.00	1	0
Exam	100.00	0.00	0.00	0.00	1	0
Exam	25.00	0.00	25.00	0.00	2	0
Exam	0.00	0.00	0.00	0.00	1	0
Chest Pain	100.00	0.00	0.00	0.00	1	0

Survey Analysis Histogram

B

The **Survey Analysis – Histogram Report** can be accessed as follows:



The report provides the responses for different type of surveys displayed as a graph based on response of the survey item. These surveys will be Course, Session, Encounter or General (Anonymous). Text type questions will be displayed as well as the tabulation and percentage of students answering a yes/no or multiple choice question.

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In addition:

- This report considers text type items (questions) displayed as responses. For example: If there are 50 students and 30 have responded for the question, then the graph will be presented with the values:
    - Responded to question : 30
    - Did not respond : 20
- All parameters will be printed at report header section.
- Items will be printed in checklist and response text order.
- In case of Course Survey:
    - Survey name is asked; survey names are loaded from database.
- In case of General Survey:
    - Survey name is asked; survey names are loaded from database.
    - User type will be asked. These types will be loaded from database. These will be Learner, Educator, and SP.
    - "All Responses," "Learner Responses," "Educator Responses," and "SP Responses" are printed in the report header for All, Learner, Educator, and SP user types respectively.
    - If any user type does not respond to the selected Survey, then a message will be displayed saying "None of the user(s) submitted the survey yet."
- In case of Encounter Survey
    - Case name and session will be printed.
- Page nos. will be restarted for each Course/Session/Encounter/Survey Name.
- Statistics are displayed as horizontal bars. Up to 9 bars will have different colors. The rest of the bars will have same (purple) color. Each bar will represent each choice/option of the item. Bar colors will be defined based on the response of the item.
- The report prints as many bars as choices/options are defined for an item (question) in Enterprise.
- Export to MS Excel (.xls. and .xlsx) is provided. Details will contain:
    - Data pool
    - Class
    - Case Id
    - Case Name
    - Category Id
    - Category Name
    - Question Id (sort order)
    - Question text
    - Answer Text (for text type question)
    - Sample size
    - All choices/options with following:
        - Id
        - Choice text
        - No. of attempts
        - Percentage of attempts

A sample report follows (**Shown with Comments** checkbox is checked):

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Survey Analysis - Histogram

N3200 Vincent Brody

EMS Institute - JUPITOR

Survey

How confident are you that in a clinical setting you can recognize signs and symptoms of a pneumothorax? N= 11

Not confident	3(27.27%)
Somewhat confident	3(27.27%)
Moderately confident	3(27.27%)
Very confident	2(18.18%)

Comments

I had never heard pneumothorax sounds before.

I feel as if I don't have enough experience with identifying the signs and symptoms of respiratory abnormalities or complications. I went into the simulation with no confidence and just knowing the information about the patient. It was a good simulation to help build on our knowledge that we learned from books to actually applying it. At the hospital, I would know how to react in this situation.

I recognized that there was a concern with the pulmonary system. I would feel more confident when I study the respiratory system more. We were just exposed to it several days ago.

learned a lot from the simulation. liked that i could see the differences in lung expansion/asymmetry. liked that we actually set up the chest tube system in scenario.

It was very scary because the patient spo2 kept dropping and I had no idea what to do beside calling for more help. I could hear the crackles on the right side and diminished lung sounds on left but I didn't connect the signs to pneumothorax.

How confident are you that in a clincal setting you can appropriately communicate your finding to other health team members? N= 11

Not confident	0(0.00%)
Somewhat confident	2(18.18%)
Moderately confident	5(45.45%)
Very confident	4(36.36%)

Comments

I think communicated well with my partner.

Survey Analysis Comments

The **Survey Analysis – Comments Report** can be accessed as follows:

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Select Column Options

Display Format	Comments
Survey Type	General
Display Options	All items selected

Survey types include General and Session. **Display Options** include Case Name, Learner Name, and/or Learner ID.

A sample report in .pdf format appears below:

Survey Analysis - Comments

N3200 Vincent Brody

EMS Institute - JUPITOR

Survey

How confident are you that in a clinical setting you can recognize signs and symptoms of a pneumothorax?

Comments

I had never heard pneumothorax sounds before.

I feel as if I don't have enough experience with identifying the signs and symptoms of respiratory abnormalities or complications. I went into the simulation with no confidence and just knowing the information about the patient. It was a good simulation to help build on our knowledge that we learned from books to actually applying it. At the hospital, I would know how to react in this situation.

I recognized that there was a concern with the pulmonary system. I would feel more confident when I study the respiratory system more. We were just exposed to it several days ago.

learned a lot from the simulation. liked that i could see the differences in lung expansion/asymmetry. liked that we actually set up the chest tube system in scenario.

It was very scary because the patient spo2 kept dropping and I had no idea what to do beside calling for more help. I could hear the crackles on the right side and diminished lung sounds on left but I didn't connect the signs to pneumothorax.

How confident are you that in a clincal setting you can appropriately communicate your finding to other health team members?

Comments

I think communicated well with my partner.

I understand the necessary pertinent information to portray to the physician and the nursing interventions to put in place.

I have no problem in asking and calling for help. SBAR is the tool that I always remember and it helps so much in communication.

How confident are you that in a clinical setting you can anticipate the physician's orders?

Comments

I have a general ideas so to some of the orders which the physician will order. I do feel confident in placing them into action as well as obtain the proper material.

I hope to have more experience so that I can anticipate the orders

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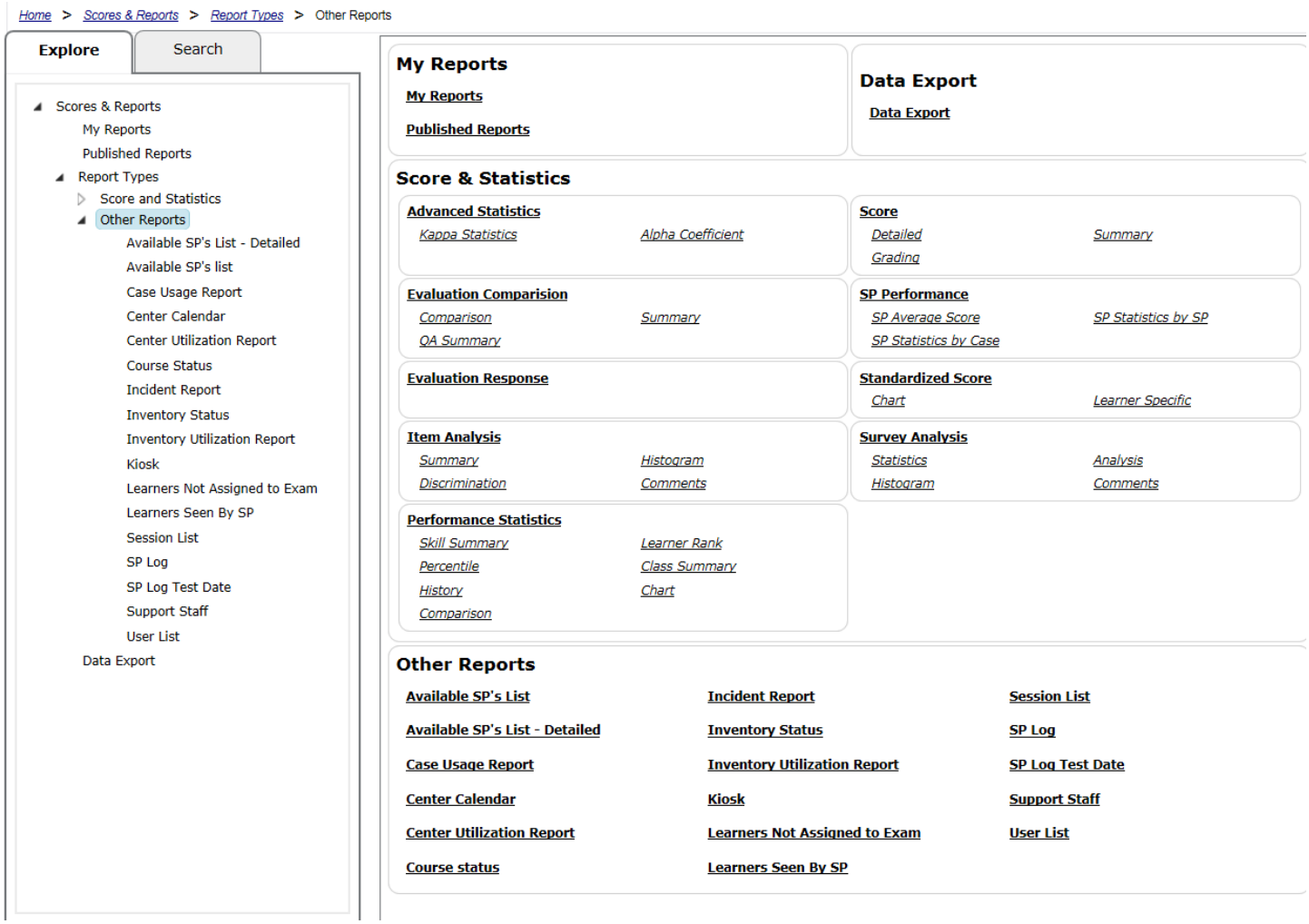
Report Types: Other Reports



Available SPs List

B

This report displays the name of the SP, day phone, availability for an SP case, and whether or not this SP has been assigned to a case. Based on the date range, the SP payment amount can be calculated and printed in a voucher format.

A sample report appears below.

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Available SP's List
10/08/2013

SIMULATIONiQ™ Enterprise

EMS

Name	Day Phone	Availability	Case Assigned
P, Bill Educator		2:55 PM To 3:06 PM	No
P, Bill SP2		12:54 PM To 12:59 PM	No
P, Bill SP2		1:45 PM To 2:05 PM	Yes
P, Bill SP2		2:55 PM To 3:06 PM	No

Center Utilization Report

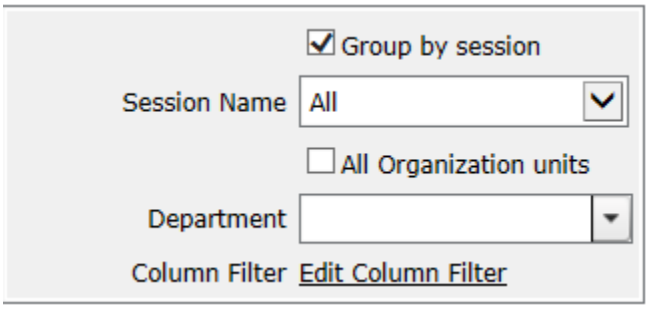
B

The **Center Utilization Report** documents the activity at your center, providing the number of students hours reported for a group of courses and for a given date range; you can also filter your results by session name and department The report also provides details on learner accreditations.

The report provides the following data:

- Total student hours for each course for a given date range and course list.
- Total student hours for each course by event type for a given date range and course list.

The report also provides the **Schedule ID**, **Session ID**, **Case ID**, **Case/Scenario Name**, **Student Hours**, and **Date**, among other data.



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A sample report appears below (in .pdf format – click the checkbox as shown to group data by session):

Center Utilization Report

!osteoarthritis, !pertussis, !shattered hip

SIMULATIONiQ Enterprise

SIMULATIONiQ Enterprise

Session Date	11/5/2014 3:43 AM
Session Name	!hemodialysis
Case Title	!osteoarthritis – examination, !pertussis -- examination, !shattered hip -- examination,
Department	SIMULATIONiQ Enterprise
Instructors	
Classifications	!osteoarthritis -- spider: web, !pertussis -- elephant: tusk, !shattered hip -- spider: web, elephant: tusk,
Evaluators	!Evangeline-Elisa, Faith; !Bachchan, Abhishek; !Atkinson, Rowan; !Clemens, Adelaide; !Richards, Lianne; !Rivero, Tanya; !Petersen, Kristina; !Kyle, Naomi;
Support Staffs	!Glau, Summer;
Rooms	NON AV2, NON AV4, NON AV9
Total Learners	4
Shrink Time	00:00
Total Hrs	00:06
Session Duration	00:02
Setup Time	00:00
Accreditations	AACP
Total Cost	4
Video Time(HH:MM)	00:00
Requested By	

12/23/2014 11:12 AM *Copyright ©2014 Education Management Solutions* *Page 1 of 2*

A sample report appears below (in MS Excel format):

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Portion of report only

Center Utilization Report

Session Date	Session	Case/Scenario Name	Case Details	Department	Instructor1	Instructor2	Classifications
11/19/2014 10:00 AM	EM Clerkship, Blk 7, S4 111814	EM Clerkship: Case 5	EM Clerkship: Case 5 -- Anaphylaxis, Murcer, B	SOM			EM Clerkship: Case 5 -- SOM: EM Clerkship,
11/19/2014 11:00 AM	EM Clerkship, Blk 7, S4 111814	EM Clerkship: Case 6	EM Clerkship: Case 6 -- Status Asthmatious, Repoz, R	SOM			EM Clerkship: Case 6 -- SOM: EM Clerkship,
11/17/2014 2:30 PM	IM Resident RR Sim_111714	MATT CASE 8	MATT CASE 8 -- Seizure, s/p Stroke	IM Residency	Ruggeri, Cara		MATT CASE 8 -- GME: Internal Medicine,
11/17/2014 3:30 PM	IM Resident RR Sim_111714	Jimmy Fehr	Jimmy Fehr -- Severe Anaphylaxis	IM Residency	Fioravanti, Gloria		Jimmy Fehr -- GME: Emergency Medicine, GME: Internal Medicine,
11/17/2014 8:00 AM	Nursing Staff Simulation - P5	COPD - P5	COPD - P5 -- COPD (Nursing)	SLB	Ozekcin, Linda		COPD - P5 -- Hospital : ED Services,
11/17/2014 9:00 AM	Nursing Staff Simulation - P5	CP Unstable VT P5	CP Unstable VT P5 -- CP Unstable VT (Nursing)	SLB			CP Unstable VT P5 -- Hospital : ED Services,
11/17/2014 12:30 PM	Nursing Staff Simulation - P5	COPD - P5	COPD - P5 -- COPD (Nursing)	SLB			COPD - P5 -- Hospital : ED Services,
11/17/2014 1:30 PM	Nursing Staff Simulation - P5	CP Unstable VT P5	CP Unstable VT P5 -- CP Unstable VT (Nursing)	SLB			CP Unstable VT P5 -- Hospital : ED Services,
11/18/2014 8:00 AM	MOR_UG312	Jennifer Hoffman	Jennifer Hoffman -- Pediatric Asthma	MORAVIAN_SON	Zuccarini, Michelle		
11/18/2014 11:00 PM	MOR_UG312	Jennifer Hoffman	Jennifer Hoffman -- Pediatric Asthma	MORAVIAN_SON	Zuccarini, Michelle		
11/18/2014 9:30 AM	MOR_UG312	Candace Breech-PPH	Candace Breech-PPH -- PPH	MORAVIAN_SON	Zuccarini, Michelle		
11/18/2014 12:30 PM	MOR_UG312	Candace Breech-PPH	Candace Breech-PPH -- PPH	MORAVIAN_SON	Zuccarini, Michelle		
11/20/2014 8:00 AM	MOR_UG312	Candace Breech-PPH	Candace Breech-PPH -- PPH	MORAVIAN_SON	Zuccarini, Michelle		
11/20/2014 12:30 PM	MOR_UG312	Jennifer Hoffman	Jennifer Hoffman -- Pediatric Asthma	MORAVIAN_SON	Zuccarini, Michelle		
11/20/2014 9:30 AM	MOR_UG312	Jennifer Hoffman	Jennifer Hoffman -- Pediatric Asthma	MORAVIAN_SON	Zuccarini, Michelle		
11/20/2014 11:00 AM	MOR_UG312	Jennifer Hoffman	Jennifer Hoffman -- Pediatric Asthma	MORAVIAN_SON	Zuccarini, Michelle		
11/21/2014 8:00 AM	SON_N7Rot4	Millie Larsen 3A - Deliri	Millie Larsen 3A - Deliri -- Delirium	SL_SON	Zuccarini, Michelle		

A breakdown of this Excel format report appears as follows:

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Center Utilization Report

Session Date	Session	Case/Scenario Name	Case Details	Department	Instructor1	Instructor2
11/18/2014 10:00 AM	EM Clerkship, Blk 7, S4 111814	EM Clerkship: Case 5	EM Clerkship: Case 5 -- Anaphylaxis, Murcer, B	SOM		
11/18/2014 11:00 AM	EM Clerkship, Blk 7, S4 111814	EM Clerkship: Case 6	EM Clerkship: Case 6 -- Status Asthmaticus, Repoz, R	SOM		
11/17/2014 2:30 PM	IM Resident RR Sim_111714	MATT CASE 8	MATT CASE 8 -- Seizure, s/p Stroke	IM Residency	Ruggeri, Cara	
11/17/2014 3:30 PM	IM Resident RR Sim_111714	Jimmy Fehr	Jimmy Fehr -- Severe Anaphylaxis	IM Residency	Fioravanti, Gloria	
11/17/2014 8:00 AM	Nursing Staff Simulation - P5	COPD - P5	COPD - P5 -- COPD (Nursing)	SLB	Ozekcin, Linda	
11/17/2014 9:00 AM	Nursing Staff Simulation - P5	CP Unstable VT P5	CP Unstable VT P5 -- CP Unstable VT (Nursing)	SLB		
11/17/2014 12:30 PM	Nursing Staff Simulation - P5	COPD - P5	COPD - P5 -- COPD (Nursing)	SLB		
11/17/2014 1:30 PM	Nursing Staff Simulation - P5	CP Unstable VT P5	CP Unstable VT P5 -- CP Unstable VT (Nursing)	SLB		
11/18/2014 8:00 AM	MOR_UG312	Jennifer Hoffman	Jennifer Hoffman -- Pediatric Asthma	MORAVIAN_SON	Zuccarini, Michelle	
11/18/2014 11:00 PM	MOR_UG312	Jennifer Hoffman	Jennifer Hoffman -- Pediatric Asthma	MORAVIAN_SON	Zuccarini, Michelle	
11/18/2014 9:30 AM	MOR_UG312	Candace Breech-PPH	Candace Breech-PPH -- PPH	MORAVIAN_SON	Zuccarini, Michelle	
11/18/2014 12:30 PM	MOR_UG312	Candace Breech-PPH	Candace Breech-PPH -- PPH	MORAVIAN_SON	Zuccarini, Michelle	
11/20/2014 8:00 AM	MOR_UG312	Candace Breech-PPH	Candace Breech-PPH -- PPH	MORAVIAN_SON	Zuccarini, Michelle	

Field	Description
Session Date	This information comes from the Session Activity Page.
Session	The name of the session comes from the Session Activity Page.
Case/Scenario Name	This information comes from the Session Activity Page.
Case Details	This information comes from the CaseScenario Name and Title fields from the Cases and Scenarios Activity Page.
Department	This information comes from the Session Activity Page.
Instructor 1	This information comes from the Session Activity Page.
Instructor 2	This information comes from the Session Activity Page.

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Classifications	Evaluators	Support Staffs
EM Clerkship: Case 5 -- SOM: EM Clerkship,		
EM Clerkship: Case 6 -- SOM: EM Clerkship,		
MATT CASE 8 -- GME: Internal Medicine,	Fioravanti, Gloria; Lopez, Jean Carlos Sed; Simulation, Nursing; Resident, Airway;	
Jimmy Fehr -- GME: Emergency Medicine, GME: Internal Medicine,	Fioravanti, Gloria; Simulation, Nursing; Resident, Airway; Nothstein, Jared;	
COPD - P5 -- Hospital : ED Services,		
CP Unstable VT P5 -- Hospital : ED Services,		
COPD - P5 -- Hospital : ED Services,		
CP Unstable VT P5 -- Hospital : ED Services,		

Field	Description
Classifications	This comes from the SP Case/Scenario Activity Page.
Evaluators	This information comes from the Session Activity Page.
Support Staff	This information comes from the Session Activity Page.

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Room	Total Learners	Shrink Time	Session Duration	Setup Time	Teardown Time	Total Hrs	Video Time	Capital Cost	Supply Cost	Drug Cost	Total Cost	Requested By	EMS University >> Class of 2015
SOM_SIM LAB	0	00:00	00:59	00:00	00:00	00:59	01:00	0.00	0.00	0.00	0.00		
SOM_SIM LAB	0	00:00	00:59	00:00	00:00	00:59	01:00	0.00	0.00	0.00	0.00		
SOM_SIM LAB	3	00:00	00:59	00:00	00:00	00:59	01:00	0.00	0.00	0.00	0.00		
SOM_SIM LAB	3	00:00	01:00	00:00	00:00	01:00	00:30	0.00	0.00	0.00	0.00		
SOM_SIM LAB	0	00:00	00:59	00:00	00:00	00:59	02:57	0.00	0.00	0.00	0.00		
SOM_SIM LAB	0	00:00	00:59	00:00	00:00	00:59	02:57	0.00	0.00	0.00	0.00		
SOM_SIM LAB	0	00:00	00:59	00:00	00:00	00:59	02:57	0.00	0.00	0.00	0.00		
SOM_SIM LAB	0	00:00	00:59	00:00	00:00	00:59	02:57	0.00	0.00	0.00	0.00		
SON_SIMLAB_B	8	00:00	01:14	00:00	00:00	01:14	00:00	0.00	0.00	0.00	0.00		
SON_SIMLAB_B	0	00:00	01:14	00:00	00:00	01:14	00:00	0.00	0.00	0.00	0.00		
SON_SIMLAB_A	8	00:00	01:14	01:00	01:00	03:14	00:00	0.00	0.00	0.00	0.00		
SON_SIMLAB_A	8	00:00	01:14	01:00	01:00	03:14	00:00	0.00	0.00	0.00	0.00		
SON_SIMLAB_A	8	00:00	01:14	00:00	00:00	01:14	00:00	0.00	0.00	0.00	0.00		
SON_SIMLAB_B	8	00:00	01:14	00:00	00:00	01:14	00:00	0.00	0.00	0.00	0.00		

Field	Description
Rooms	This information comes from the Session Activity Page.
Total Learners	This information comes from the Session Activity Page.
Shrink Time	This information comes from the Session Activity Page.
Session Duration	This information comes from the Session Activity Page.
Setup Time	This information comes from the Scenario Activity Page.
Teardown Time	This information comes from the Scenario Activity Page.
Total Hours	This is the total of the Shrink Time, Session Duration, Setup Time, and Teardown Time from the Scenario Activity Page.
Video Time	This information comes from the Scenario Activity Page.
Capital Cost	This comes from the Billing Rate in that capital equipment's activity (from **Settings>Inventory)**.
Supply Cost	This comes from the supply cost from that inventory item's purchase price on its Activity page (from **Settings>Inventory)**.
Drug Cost	This comes from the drug cost from that inventory item's purchase price on its Activity page (from **Settings>Inventory)**.
Total Cost	This is the total cost for all inventory items used for the scenario.
Requested By	This is the person who requested the session, if applicable (from Session Request)
EMS Institute/Learner Group	This is the learner group of the participant from the Session Activity Page (if applicable).
EMS Institute/Department	This is the department that contains the participant learner group from the Session Activity Page in the **General Information** section (if applicable).

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Field	Description
	For example, your institute may contain four participants total for the session, two from a School of Nursing learner group, one from a School of Medicine learner group, and one from a School of Psychiatry learner group. This would be noted in the Participant Details section.

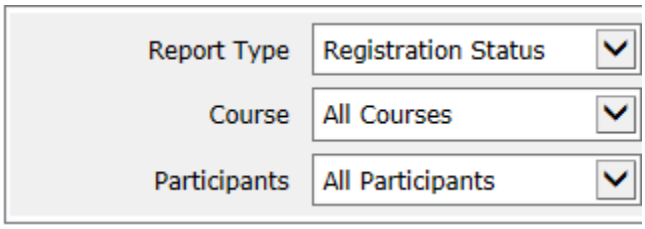
Note: If generating a Center Utilization Report for a requested event, only the following fields will be populated:

- Session/Event Date
- Session/Event Name
- Department
- Rooms
- Learners
- Total Hours
- Requested By

Course Status

B

The **Course Status** Reports can be accessed as follows:



Course Registration Status – This report will show the list of learners that have been registered for the course and the learners that have not registered. A sample report appears below:

Course Completion Status – This report shows the learner name and the completion status of the course. A sample report appears below:

The following is an example of a Course Status Report for All Participants:

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Registration Status
Course Name: All Courses
Participants : All Participants

SIMULATIONiQ Enterprise

EMS

Course Name (n/m)	Learner ID	Learner Name	Learner Group	Registered	Registration Date
CC_Cardio (2/20)		12, Learner	FamMed YR-2,Family Med	No	
	0272048	Backes, Nicole	FamMed YR-2	No	
	0406809	Curtis, Angela	FamMed YR-2	No	
	0322344	Germain, Sarah	FamMed YR-2	No	
	0322344	Gober, Sarah	FamMed YR-2	No	
		Hankins, Kim	FamMed YR-2	No	
		Howard, Dave	FamMed YR-2	No	
		Johnson, Sally	FamMed YR-2	No	

The following is an example of a Course Status Report for All Registered Participants:

Registration Status
Course Name: All Courses
Participants : All Registered Participants

SIMULATIONiQ Enterprise

EMS

Course Name (n/m)	Learner ID	Learner Name	Learner Group	Registered	Registration Date
Test Course Patrick (5/5)	1100	1, Learner		Yes	6/24/2014
		10, Learner		Yes	6/17/2014
		2, Learner		Yes	6/17/2014
		3, Learner		Yes	6/17/2014
		6, Learner		Yes	6/24/2014

The following is an example of a Course Status Report for All Non-Registered Participants:

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Registration Status
Course Name: All Courses
Participants : All Non Registered Participants

SIMULATIONiQ Enterprise

EMS

Course Name (n/m)	Learner ID	Learner Name	Learner Group	Registered	Registration Date
CC_Cardio (0/20)		12, Learner	FamMed YR-2,Family Med	No	
	0272048	Backes, Nicole	FamMed YR-2	No	
	0406809	Curtis, Angela	FamMed YR-2	No	
	0322344	Germain, Sarah	FamMed YR-2	No	
	0322344	Gober, Sarah	FamMed YR-2	No	
		Hankins, Kim	FamMed YR-2	No	
		Howard, Dave	FamMed YR-2	No	
		Johnson, Sally	FamMed YR-2	No	

The following is an example of a Course Completion Status Report:

Completion Status
Course Name: All Courses

SIMULATIONiQ Enterprise

EMS

Course Name	Learner ID	Learner Name	Incomplete Cases	%Completed
Test Course Patrick	1100	1, Learner		100
		10, Learner	7 minutes PA1A	0
		2, Learner	7 minutes PA1A	0
		3, Learner	7 minutes PA1A	0
		6, Learner	7 minutes PA1A	0

Incident Report

B

This report provides the details on any occurrence that led to a disruption of session activity, including an absent or late learner, lack of learner preparation, an injury to a patient, staff member or visitor, video issue, or other occurrences.

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A sample report appears as follows:

Incident Details

05/27/2013 - 07/31/2014;

EMS

Incident Details	
Type of Incident	Candidate late/sick
Date	7/14/2014
Time	06:17 PM
Location	SP room 4
Facts of Incident	Simulation was cut short due to SP illness
Name of Staff	Delaney, Sharon
Name of SP	
Name of Learner	
Advantages	No
Illness	SP fainted. SP has history of diabetes
Reported By	Phillips, Donna

Inventory Status

B

This **Inventory Status Report** tracks your inventory as it is used in the simulation lab. This report is designed to show you what inventory is in stock on a particular date and what will remain after the scenarios are executed.

Inventory status as of 11/18/2016

A sample report appears below.

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Inventory Status
07/15/2014

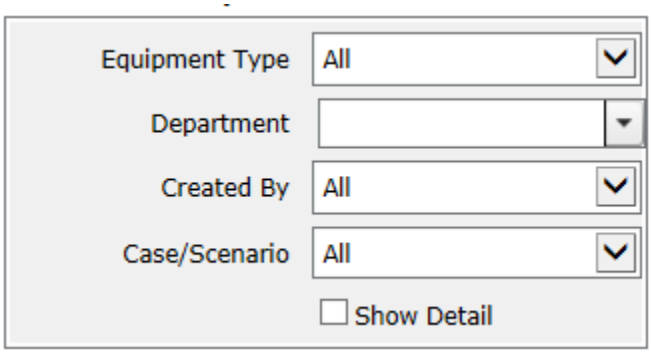
SIMULATIONiQ Enterprise

EMS

Name	Type	Reorder Qty	Available Qty	Scheduled Qty as of 07/15/2014	Balance Qty
Albuderol	Drug	8	24	0	24
Albuterol Inhaler	Drug	4	11	0	11
Aspirin	Drug	25	123	0	123
Augmentin	Drug	5	50	0	50
Canibus	Drug	0	6	0	6
Cough Medicine	Drug	0	25	0	25
Cumidin	Drug	0	-9	0	-9
Drug1	Drug	0	1	0	1
EMS Acetaminophen 200 mg	Drug	250	98	0	98
EMS Lovenox	Drug	50	-97	0	-97

Inventory Utilization Report

The **Inventory Utilization Report** tracks inventory as it is used by user or by scenario. Select the **Equipment Type** (**Room**, **Capital**, **Supply**, **Drug**, or **All**), **Created By** (user), or **Case/Scenario**.



A sample report follows:

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Inventory Utilization Report

SIMULATIONiQ™ Enterprise

05/27/2013 - 07/31/2014;

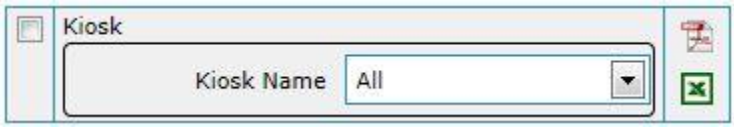
EMS

Capital Equipment 34

Capital Equipment	Hrs Used (HH:MM)	Total No of Times Used
Aspirator-654321	01:40	5
Blood pressure cuff-Small	05:26	22
Cart 34-22222	00:02	59
Chronograph-111	10:30	29
Clamp-X-123	00:35	2
Defibrillator-DF399	12:43	12

Kiosk

The **Kiosk Report** can be accessed from the following location:



The Kiosk Report provides a listing of all Kiosk-related activity carried out by utilizing the following functionality within the **Search** tab in Settings (searching by Kiosk activity):

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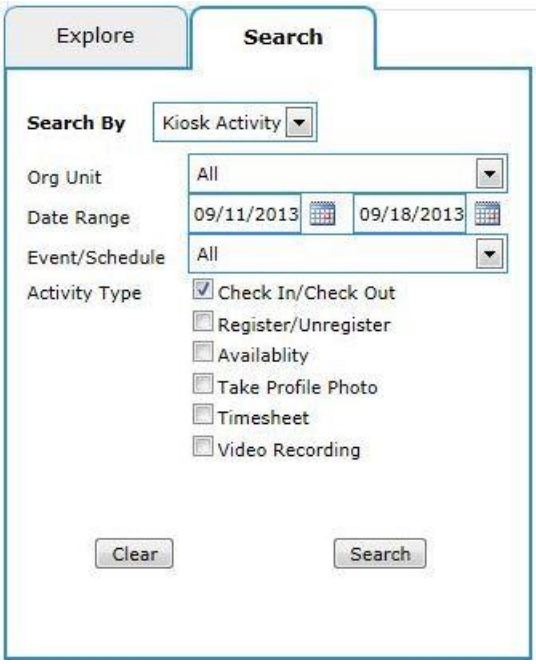

The report provides the following data:

- The Organization Unit to which the Kiosk user belongs
- The date range of Kiosk activity
- The event/schedule of Kiosk activity
- How many users checked out of the Kiosk manually
- How many users were automatically checked out by the Kiosk (based on a parameter value in Settings)
- How many users took their picture from the Kiosk, assuming compatible hardware was installed (this functionality exists for Educators, Learners, or SPs, but not visitors)
- How many users (SPs) entered a timesheet through the Kiosk
- How many users added their availability through the Kiosk
- How many users deleted their availability through the Kiosk

A sample report follows:

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Kiosk

SIMULATIONiQ™ Enterprise

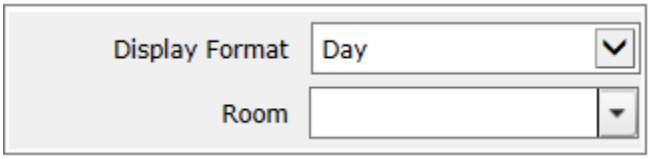
EMS

Activity Name	Count
Overall users utilized the system :	8
User Check Out	7
System Check Out	8
Take Profile Photo	3
Timesheet	1
Add Availability	2
Delete Availability	11
Total	32

Center Calendar

B

Using the **Center Calendar Report**, you can print a schedule for your simulation center by the day or month; you can also make it specific to a room at your center. You can also print the details and make a copy of the evaluation checklist for your scenarios.



A sample report follows:

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Lab Calendar
SIMULATIONiQ Enterprise
12/16/2014

SIMULATIONiQ Enterprise

SIMULATIONiQ Enterprise

AV-ROOM-2-91xx(SH)

AV 1673
12/16/2014 2:33 PM (10 Mins)
ems, l14; ems, l15
ems, s1; ems, s11

Center Utilization
12/16/2014 4:00 PM (60 Mins)
ems, l11; ems, l12; ems, l13
!Birch, Thora; !Croft, Lara

12/18/2014 12:51 PM Participants Eval/Specialists *Copyright ©2014 Education Management Solutions* *Page 1 of 1*

Learners Not Assigned to Exam

B

The **Learners Not Assigned to Exam Report** identifies students in a graduating class who have not completed an exam according to session date range parameters.

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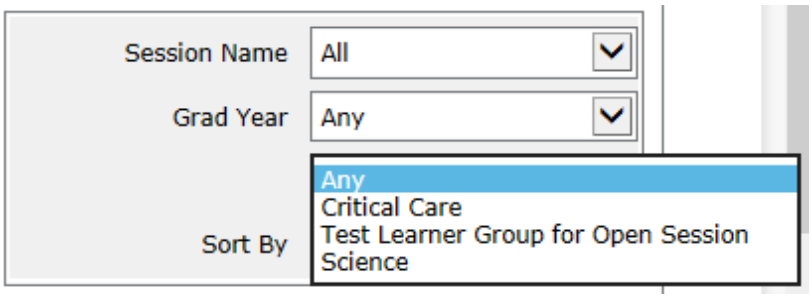

A sample report follows:

Learners Not Assigned to Exam

Session Name : Nurse 240 Night 5pm, Monday Group B

Grad year : Any

Learner Group : All

SIMULATIONiQ™ Enterprise

EMS

Learner ID	Learner Name	Grad Year	Learner Group
	6,Learner		Team 2; Nurse 240 Day - Group A
	7,Learner		Team 2; Nurse 240 Night - Group B
	8,Learner		Team 2; Nurse 240 Night - Group B
	9,Learner		Family Meds - Group 3; Nurse 240 Night - Group B
3	Andrews,Beth	2014	Family Meds - Group 3; Nurse 240 Night - Group B

Learners Seen by SP

B

The **Learners Seen by SP Report** displays the details of the Student-to-SP encounters including **Session Name**, **Session Date**, **Case/Scenario Name**, **Learner**, and **SP Name**.

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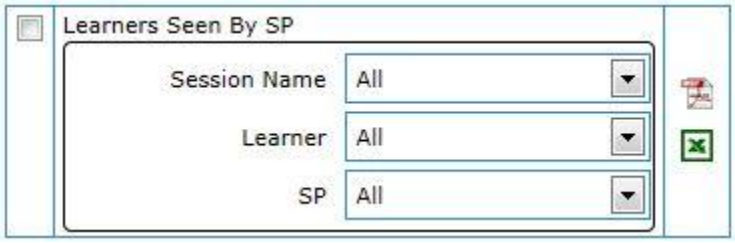
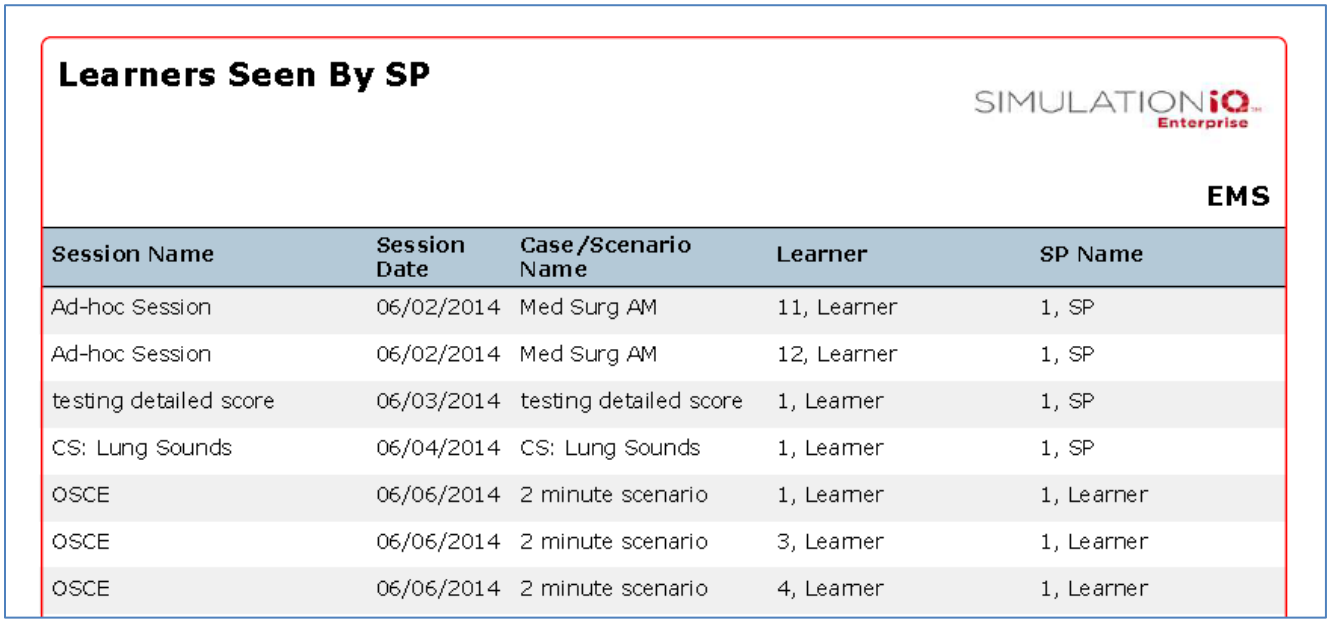


A sample report follows:



Learners Seen By SP

SIMULATIONiQ Enterprise

EMS

Session Name	Session Date	Case/Scenario Name	Learner	SP Name
Ad-hoc Session	06/02/2014	Med Surg AM	11, Learner	1, SP
Ad-hoc Session	06/02/2014	Med Surg AM	12, Learner	1, SP
testing detailed score	06/03/2014	testing detailed score	1, Learner	1, SP
CS: Lung Sounds	06/04/2014	CS: Lung Sounds	1, Learner	1, SP
OSCE	06/06/2014	2 minute scenario	1, Learner	1, Learner
OSCE	06/06/2014	2 minute scenario	3, Learner	1, Learner
OSCE	06/06/2014	2 minute scenario	4, Learner	1, Learner

Select a Learner Name to see to see which SPs they have been seen by, and when they met.

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Learners Seen By SP

SIMULATIONiQ™ Enterprise

2, Learner

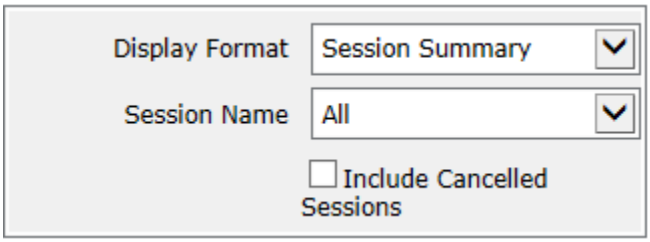
EMS

Session Name	Session Date	Case/Scenario Name	Learner	SP Name
Cardiac Arrest - Jason	06/26/2013	Hypertension - Jason	2, Learner	2, SP
Liz 1-2-1 Session Changes	03/07/2014	Indigestion	2, Learner	3, SP
Liz 1-2-1 Session Changes	03/07/2014	Bariatric	2, Learner	15, Sp
Liz 1-2-1 Session Changes	03/07/2014	Abdominal Pain	2, Learner	1, SP

Session List

B

The **Session List Report** can be accessed from the following location:



Session Summary

The **Session List – Session Summary Report** provides the **Session Name**, **Start Date**, **Start Time**, and **Duration**. Also included is Case/Room Information as well as details on Learners, Evaluators, any SPs, Specialists, Equipment, and Session Notes.

A sample report follows:

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Session List - Session Summary

SIMULATIONiQ™ Enterprise

Created By : administrator, administrator

Organization Unit : EMS University

EMS

Session Date : 6/1/2014 - 7/30/2014

General Information

Session Name	CS: Lung Sounds	**Accreditation**
Start Date	6/4/2014	
Start Time	10:03 AM	
Duration	15	

Case/Room Information

Options

Number of 1

Case and Room

Order	Rooms	Case/Scenario
1	Room 1	CS: Lung Sounds

Learner List

Learner List

Order	Learner Name
1	1, Learner

Accreditation

The **Session List – Accreditation Report** enables you to view the amount of time accredited per student per named accreditation. The report also provides case and room details as well as lists of learners and evaluators.

A sample report follows:

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Session List - Accreditation

SIMULATIONiQ™ Enterprise

Created By : administrator, administrator

Organization Unit : EMS University

EMS

Session Date : 6/1/2014 - 7/30/2014

General Information

Session Name	Competency Session	**Accreditation**	AACN
Start Date	6/12/2014		
Start Time	1:38 PM		
Duration	10		

Case/Room Information

Options			
Number of	1		
Case and Room	**Order**	**Rooms**	**Case/Scenario**
	1	Bed 1A	7 Minutes PA2

Learner List

Session Request

Institution faculty and staff may request time in the Simulation Center by creating a **Session List - Session Request Report**. Requests will then be accepted or denied by the simulation center administrator.

A sample report follows:

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Session List - Session Request

SIMULATIONiQ Enterprise

Requested By : All

Organization Unit : EMS University

Session Date : 8/8/2013 - 8/5/2014

EMS

General Information

Session Name	Group 1 DP	Accreditation	AACN
Start Date	8/14/2013		
Start Time	10:30 AM		
Duration	30		

Case/Room Information

Options

Number of 1

Case and Room	Order	Rooms	Case/Scenario
	1	Room 1	David Parker_CC

Learner List

Learner List	Order	Learner Name
	1	2, Learner (group 1)
	2	3, Learner (group 1)
	3	4, Learner (group 1)

Evaluator List

Evaluator List	Order	Evaluator Name
	1	Admin1, SimiQ

SP List

SP List	Order	SP Name

Specialist List

Specialist List	Order	Specialist Name

Equipment List

Capital	Name	Unique Id	Quantity	Rooms

Drugs	Name	Quantity	Rooms

8/5/2014 11:23 AM Copyright ©2014 Education Management Solutions Page 17 of 1520

SP Log

B

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The **SP Log Report** provides a list of login and logout times for each SP, as well as the session name and duration.

A sample report follows:

SP Log

Sutton, Michael

EMS University

Date	Login Time	Logout Time	Duration (hh:mm)	Schedule
05/03/2013	8:00 AM	3:30 PM	7:30	POD1 AM 5/3/2013 8:00 AM
05/09/2013	8:00 AM	3:30 PM	7:30	POD1 AM 5/9/2013 8:00 AM
05/10/2013	8:00 AM	3:30 PM	7:30	POD1 AM 5/10/2013 8:00 AM
05/23/2013	8:00 AM	3:30 PM	7:30	POD1 AM 5/23/2013 8:00 AM
05/30/2013	8:00 AM	3:30 PM	7:30	POD1 AM 5/30/2013 8:00 AM
		Total Time	37:30	

SP Log Test Date

The **SP Log Test Date Report** provides details on an SP's activity if it is associated with a test session.

A sample report follows:

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SP Log Test Date

POD1 AM 5/1/2013 8:00 AM

EMS University

Name	Date	Login Time	Logout Time	Duration (hh:mm)
Alcott, Suzanne	05/01/2013	8:00 AM	3:30 PM	7:30
tBrown, Cecelia	05/01/2013	8:00 AM	3:30 PM	7:30
Cahill, Gerry	05/01/2013	8:00 AM	3:30 PM	4:30
Darby, Barton	05/01/2013	8:00 AM	3:30 PM	6:51
Englestrom, Jon	05/01/2013	8:00 AM	3:30 PM	7:10

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Appendix A – Types of Score Reports

B

Responses and Scores from Evaluators and SPs			
I want to:	**Report Name**	**Description**	**Location**
Compare responses among evaluators, may be used for Quality Assurance purposes.	**Evaluation Comparison**	**Comparison**– If multiple evaluators were assigned to a session, their Performance Assessment responses can be compared in this report. Shows where they are in agreement (in green) or disagreement (in red). Also shows comments. **Reference Evaluator -** Choose the "Observer" or evaluator to reference the responses to. **Summary** - Displays evaluation responses by category. Option to display question text within report. **QA Summary** –This report displays the percentage of encounters within a session that have been reviewed by a QA Evaluator.	Analyze Score > Evaluation Comparison
Lists the **responses from all types of assessments**, scores and comments from evaluators. Pass/Fail indication.	**Evaluation Response**	Displays the evaluator response with both question level and case level (general) comments. Group the report by each Learner, or by each Case/Scenario, then order the data by Learner or by Evaluator.	Analyze Score > Evaluation Response
Learner Scores			
I want to:	**Report Name**	**Description**	**Location**
Get **learner scores** for sessions, cases/scenarios, categories, and/or questions. Select Detail if you also want to know the **number of possible choices per question.** Summary format displays in a **Graphical chart** to show Case score and Category score	**Scores**	The Score Report—**Detailed** includes question text, case score, category, question score including the percent correct, Pass/Fail indication, and evaluator comments. **Detailed** Displays the evaluator's responses to each question, as well as the percentage score per checklist item, Pass or Fail indication, and displays the **number of possible choices.** Check the checkbox to **Show grading scale score, but will exclude custom scoring questions** *(these are questions whose response choices are different from the*	Analyze Score > Scores Score Report – Detailed

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		response choices set in the Category). Works best if all questions are of the same response choice type and are dichotomous. The Score Report—**Grading** includes a category grading scale score. Option to display the responses for each question for a given case/scenario and an option to edit the Category titles and explanation/description for the categories. The Score Report—**Summary** included a graphical chart report that includes case score and category score including the percent correct and pass/fail results.	Score Report – Grading Score Report – Summary

Types of Statistical Reports

Reliability Scores

I want to:	Report Name	Description	Location
See the **Accuracy and Reliability** of evaluators' responses	**Advanced Statistics**	**The Kappa Report** provides statistics to assess the accuracy of evaluation performed by an SP for each question. Option to check for Individual SPs which will display the names of each SP in the session. Report uses paired data of evaluator and QA evaluator. Dichotomous response types are optimal such as (True-False, Yes-No). Custom scoring questions (e.g. multiple choice, Likert scale) are not suggested as they will skew statistics especially Kappa Value. The **Alpha** Report measures the reliability of true score variance to observed score variance.	Analyze Statistics > Advanced Statistics Analyze Statistics – Kappa Statistics Analyze Statistics – Alpha Coefficient
Standardized Patient statistics of their average scores per category and case. Also, can be used to generate Evaluations of the SPs performances (SP Performance Assessments	**SP Performance**	Statistical information how SPs scores. Generates the average case and category score by a standardized patient. This report also assists the SP Trainer in comparing SP performance. This report can also compare scores for all SPs assigned to a case, compare case scores within a session, and compares an individual SP over a period of time. **SP Average Score -** allows for the review and comparison of individual SP statistics. This includes the total number of SPs within the data pool for a case, represented by the N(c) value,	Analyze Statistics > SP Performance SP Performance – SP Average Score

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		including the composite average of correct responses, the minimum and maximum number of correct responses, category mean, range, and average score. **The SP Statistics by SP –** data is arranged by SP**.** One SP per page. **SP Statistics by Case** – data is arranged by case.	SP Performance – SP Statistics by SP SP Performance – SP Statistics by Case
Item Analysis			
I want to:	**Report Name**	**Description**	**Location**
See the statistical breakdown of respondents' responses per item. Includes: **Mean, Variance, SD, Min, Max, Range Sum of Scores, Sum of Squares, Kurtosis, T Value, and Percentile.** Histogram format – **graphical display** of responses from evaluators and/or learners on a particular item. **Statistics of the lowest score, median score, and the highest score per session.** **Compare upper and lower 27%.** **Point Biserial data**	**Item Analysis**	The **Item Analysis –** provides comprehensive item statistics organized by session or by case and allows for the analysis of the effectiveness or key validation of each item. Displays summary of question, indicates number of missing responses, mean, variance, SD… and Statistical term definitions. Most effective with dichotomous, non-custom response types such as: Yes/No, True/False, and Likert Scale response types. **Summary –** tab form includes question number, number of respondents, mean, SD, min, max. Range, sum of scores, 25, 50, 75 percentile. **Histogram –** is in a horizontal bar chart format that shows the percentage of responses from various evaluations, pre and post encounter items using non-text based responses. **Discrimination** – Lists the Mean score, Median score, number of respondents, highest score and lowest score and the max score per session. Compares the upper and lower 27% of correct group responses. Includes the Point Biserial (Quantifies the relationship of two variables. Individual examination item results are measured against those learners who performed well and those learners who performed poorly overall. For example, a positive point biserial tells	Analyze Statistics>Item Analysis Item Analysis – Summary Item Analysis – Histogram Item Analysis – Discrimination

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		us that those learners who performed well on the examination were more likely to answer that test item correctly.)	
Class and Individual Performance Statistics			
I want to:	**Report Name**	**Description**	**Location**
Generate **Overall statistics** of Session Scores, rank, class percentile. Can also be in a **Bar Chart or Plotter Chart format.** Student or Staff format with information appropriate for each audience.	**Performance Statistics**	**Skill Summary** Report is based on Category or Competency. Page Limitation is a maximum of 12 skills or 12 cases. One report per learner identifying the learner's session/case/category scores as well as overall scores for a category across all cases and a comparison to the other learners in the session(s).Color legend identifies deficiencies. **Learner Rank Report** organizes student scores and provides class rank, top and bottom percentage scores and scores by a selected standard deviation above or below the mean. **Percentile Score Report** identifies percentile scores for the entire cohort, an individual student, or the defined top and bottom percentage of student scores over a selected period of time. **Class Summary** - Obtain complete case or case category statistics for the class involved in a session or range of sessions. Includes class totals, mean, standard deviation, minimum/maximum, range and minimum pass percentage. **History** - Provides statistical information for individual learner history including comparison to class means and comments by evaluators. **Chart** - Displayed as a graph, this report identifies the individual learner performance as compared to the range and average of examinee scores. Produce scores by Form, Case, Category or Category Group. **Bar Chart -** Displayed as a bar chart, this report identifies the individual learner performance as compared to the range and average of examinee scores. Produce scores by Form, Case, Category or Category Group.	Analyze Statistics > Performance Statistics Performance Statistics – Skill Summary Performance Statistics – Learner Rank Performance Statistics – Percentile Performance Statistics – Class Summary Performance Statistics – History Performance Statistics – Chart

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		Comparison - Learner performance score compared to class mean, min, max and range.	Performance Statistics – Comparison
Standardized Score vs. Actual Learner Score	**Standardized Score**	Compares actual scores for a session or group of sessions with a standardized score based on a single mean and standard deviation. The report displays data by session, case/scenario, category, or category groups. **Chart –** This report draws a bell curve based on the standard deviation and mean selected. **Learner Specific** – This report displays scores in a tabular format based on the standard deviation and mean selected.	Analyze Score > Standardized Score Standardized Score – Chart Standardized Score – Learner Specific

Survey Analysis

I want to:	Report Name	Description	Location
Get survey results (See grid below for more information)	Survey Analysis	**Histogram –** graphically displays sample size and the total of selected responses per question in a horizontal-bar graph format. Select if survey was a Session level survey (if so, choose Session) or a General Survey scheduled in Sessions & Courses > Scheduled Survey. **Statistics** – includes question text, choice text, sample size, percentage of each selected response. Case/Scenario requires a Performance Assessment and a Case level survey. **Analysis** – includes the question text, selected response, mean, selected mean, SD, Selected SD, sample size and Selected sample size.	Analyze Statistics>Survey Analysis Survey Analysis – Histogram Survey Analysis – Statistics Survey Analysis – Analysis

Refer to this table to determine whether to use a **Session** or a **General** Survey Type and the appropriate formats for each. Case level "Analysis" considers the Performance Assessment score and the survey responses within the Case. Select whether to display the Session score, Case/Scenario, Category or Category Group scores.

Surveys	Report	Survey Type	Format: Statistics	Format: Analysis	Format: Histogram
Case Level Survey	Survey Analysis	Session	✓	✓ *Select either:* • Session • Case/Scenario • Category • Category Group	✓

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Session Level Survey	Survey Analysis	Session	✓	X	✓
Scheduled Survey	Survey Analysis	General	✓	X	✓

Appendix B – Other (Admin) Reports

B

Other (Administrative) Reports			
I want to:	**Report Name**	**Description**	**Location**
List of Available SPs by date	**Available SP list**	Lists the SPs' time of availability by date and indicates whether they are assigned to a case. Data is collected when the SPs confirm their availability for a scheduled session.	Other Reports > Available SP list Available SPs List
Utilization of facility, sessions, departments	**Center Utilization Report**	Comprehensive report to include session date, name of session, case/scenario used, department and instructors associated with session, assigned evaluators support staff, assigned support staff, classifications of case/scenarios, rooms scheduled, total number of learners and broken down into Learner Groups, Session duration, setup time, teardown time, video hours, cost of capital, supplies and drugs assigned to sessions, requestor.	Other Reports > Center Utilization Report Center Utilization
Course registration and Course completion status by learner	**Course**	Lists the registration status and the completion status of learners enrolled in a Course. Courses are created in the Sessions & Courses task group.	Other Reports > Course Course Status (Registration/Completion)
Incidents reported in Session Activity pages	**Incident Report**	List any incidents reported in a Session Activity page. Lists the type of incident, and the number of incidents, date, time who was involved as who reported the incident.	Other Reports > Incident Report Incident Report
Status level of **Inventory items**	**Inventory Status**	Report identifying the supplies and drugs in stock, available quantity, threshold to reorder, status as of current day and item balance. Color coded: Red means out of stock and yellow indicates less than the reorder amount and close to depletion. Capital equipment is listed as available or unavailable.	Other Reports > Inventory Status Inventory Status
Usage of Inventory items and/or	**> Inventory Utilization Report**	Room usage will list the room name, the hours used, and the total number of times used.	Other Reports > Inventory Utilization Report

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Room usage by session		Filter the report by equipment type (room, capital, supplies, drugs), Created by (who created the session) or by a Case/scenario within the date range specified in the left column.	Inventory Utilization
List of Kiosk **Check-in and Check-out** by all users	**Kiosk**	If center owns an EMS Kiosk, the list of users and visitors who have checked in and out of your center is displayed.	Other Reports > Kiosk Kiosk
Center Calendar print out	**Center Calendar**	Shows scheduled sessions on the Center Calendar. Filter by day, week, work week, or month.	Other Reports > Center Calendar Center Calendar
Learners who have **not been assigned** to a session	**Learners Not Assigned to Exam**	Lists all learners who are not assigned to a particular session or all sessions within the date range defined in the left column. Filter options are: by Session name, by Grad Year, Learner Group. Arrange report by Learner Names, Learner IDs, Grad Year, or by Learner Group.	Other Reports > Learners Not Assigned to Exam Learners Not Assigned To Exam
See which learners have met with which SPs. Sort by a learner name or by an SP name.	**Learners seen by SP**	Displays a list of learners who have met with SPs or sort by SP name to see which learners they have seen. Filter your search by date range in the left column, or by Session Name, Learner Name or SP name.	Other Reports > Learners seen by SP Learners Seen By SP
Printout of **Session Summary** for multiple sessions.	**Session List**	Printout of Session Summary information of sessions that apply toward an Accreditation, by Requestor Name (one who requested that session be scheduled in Session Requests task), or Session Summary. Includes session name, time, duration, case, room, accreditation, learners, SPs, specialists, evaluators, inventory and session notes.	Other Reports > Session List Session List
The **SP Log Report** provides a list of login and logout times for each SP, as well as the session name and duration.	**SP Log**	The report provides a list of login and logout times for each SP, as well as the session name and duration.	Other Reports > SP Log SP Log
The SP Log Test (Session) Date Report provides details on an **SP's activity** if it is associated with a session.	**SP Test Date**	Printout of the SP Sign In Log/Payroll Record	Other Reports> SP Test Date SP Log Test Date

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Appendix C – Data Grid Reports (Export Scores)

B

Export scores using the above steps. *The following pages show examples of what the Excel spreadsheet will generate according to the Format Type and Format Style selected.*

Format Type - Question Scores	**Format Style 1**

For Question Scores. Percentage score, **Actual** Score, and **Max** Score – includes custom scoring, includes chosen response. See column headers all available options for this report.

Export Question Score Format1

Organization Unit	Course	Session	Learner ID	Learner Name	Evaluator Name	Case/Scenario Name	Category Name	Category Group Name	Competency Name	Question Text	Score	Percent Score	Max Score	Response
SIMULATIONiQ Enterprise		Heart surgery 6/17/2014 1:16 AM	12	Anne, Grace	!Lively, Blake	Shattered hip	Communication Skills			Did the learner auscultate lungs bilaterally ventral and dorsal, 4 places each?	1.5	75	2	Exceeds Expectations
SIMULATIONiQ Enterprise		Heart surgery 6/17/2014 1:16 AM	12	Anne, Grace	!Lively, Blake	Shattered hip	hypnophobia			Did the student ask about any international travel in the past 5 years?	0	0	1	After 7 minutes
SIMULATIONiQ Enterprise		Heart surgery 6/17/2014 1:16 AM	12	Anne, Grace	!Lively, Blake	Shattered hip	Communication Skills			I approached the patient in a self-confident manner?	1	66.67	3	Yes
SIMULATIONiQ Enterprise		Heart surgery 6/17/2014 1:16 AM	12	Anne, Grace	!Lively, Blake	Shattered hip	Communication Education and Counseling			Learner asked patient about family history of heart disease?	2	100	4	Exceptional

Format Type - Question Scores	**Format Style 2**

For Question scores. Percentage score only, for each question, and can be used for all assessment types. Includes chosen response. See column headers all available options for this report.

Export Question Score Format2

Organization Unit	Course	Session	Learner ID	Learner Name	Evaluator Name	Case/Scenario Name	Category Name	Category Group Name	Competency Name	Score	Score	Score	Score	Score	Score	Response
EMS University		Respiratory Session 2/17/2013 12:30 PM	24	1, Learner	Barton, Cory	13 y/o Asthma	Safety		Patient Care	100						Yes
EMS University		Respiratory Session 2/17/2013 12:30 PM	24	1, Learner	Barton, Cory	13 y/o Asthma	Physical Exam 1-3		Patient Care		50					
EMS University		Respiratory Session 2/17/2013 12:30 PM	24	1, Learner	Barton, Cory	13 y/o Asthma	Chest Pain		Patient Care			100				
EMS University		Respiratory Session 2/17/2013 12:30 PM	24	1, Learner	1, Learner	13 y/o Asthma	POST ENCOUNTER		Patient Care				100			
EMS University		Respiratory Session 2/17/2013 12:30 PM	24	1, Learner	1, Learner	13 y/o Asthma	Survey		Patient Care					100		
EMS University		Respiratory Session 2/17/2013 12:30 PM	25	2, Learner	Barton, Cory	13 y/o Asthma	Safety		Patient Care	100						Yes

Format Type - Question Scores	**Format Style 3**

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For Question scores. Percentage score for each question in each category. Includes chosen response See column headers all available options for this report.

Export Question Score Format3

Organization Unit	Course	Session	Learner ID	Learner Name	Evaluator Name	Case/Scenario Name	Category Name	Category Group Name	Competency Name	Q1	Q2	Q3	Q4	Q5	Q6	Q1
EMS University		Respiratory Session 2/17/2013 12:30 PM	24	1, Learner	Barton, Cory	13 y/o Asthma	Safety		Patient Care	100						Yes
EMS University		Respiratory Session 2/17/2013 12:30 PM	24	1, Learner	Barton, Cory	13 y/o Asthma	Physical Exam 1-3		Patient Care		50					
EMS University		Respiratory Session 2/17/2013 12:30 PM	24	1, Learner	Barton, Cory	13 y/o Asthma	Chest Pain		Patient Care			100				
EMS University		Respiratory Session 2/17/2013 12:30 PM	24	1, Learner	1, Learner	13 y/o Asthma	POST ENCOUNTER		Patient Care				100			
EMS University		Respiratory Session 2/17/2013 12:30 PM	24	1, Learner	1, Learner	13 y/o Asthma	Survey		Patient Care					100		
EMS University		Respiratory Session 2/17/2013 12:30 PM	25	2, Learner	Barton, Cory	13 y/o Asthma	Safety		Patient Care	100						Yes

Format Type - Question Scores | Format Style 4

For Question scores. Percentage score and Actual score for each question in each Category. Category Name and Question number is in the column headers across the spreadsheet. Delete the percentage score columns if you only need the Actual Score. See column headers all available options for this report.

xport Question Score Format4

rganization nit	Course	Session	Learner ID	Learner Name	Evaluator Name	Awareness Q1(%)	Communication Skills Q1(%)	Q2(%)	Allergies Q1(%)	Allergies Q1	Awareness Q1	Communication Skills Q1	Q2
MULATIONiQ nterprise		CODE Session - C 6/20/2014 10:42 AM	210	Deerfield, Jan	Gupta, Vijay	95	80	100	100	2	1.5	1	2
MULATIONiQ nterprise		CODE Session - C 6/20/2014 10:42 AM	326	Garnett, Bill	Gupta, Vijay	100	100	100	100	1.5	2	2	2
MULATIONiQ nterprise		CODE Session - C 6/20/2014 10:42 AM	543	D'Addrean, Suzanne	Gupta, Vijay	90	100	100	100	1.5	2	2	2
MULATIONiQ nterprise		CODE Session - C 6/20/2014 10:42 AM	112	Graniner, Jeanene	Gupta, Vijay	100	100	100	85	2	2	2	2
MULATIONiQ nterprise		CODE Session - C 6/20/2014 10:42 AM	99	Mohammed, Abdul	Gupta, Vijay	50	75	80	100	0.5	1	1.25	2
MULATIONiQ nterprise		CODE Session - C 6/20/2014 10:42 AM	436	Chen, Edna	Gupta, Vijay	0	0	75	50	0	0	1	0.5
MULATIONiQ nterprise		CODE Session - C 6/20/2014 10:42 AM	442	Lee, Vivik	Gupta, Vijay	90	100	100	100	1.5		2	2
MULATIONiQ nterprise		CODE Session - C 6/20/2014 10:42 AM	776	Jannison, Alex	Gupta, Vijay	100	100	100	95	2	2	2	1.75

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Format Type - Question Scores	Format Style 5

For **Question scores of Pre-encounter and Post-encounter** responses. Learner Name is the Evaluator Name. Score is not available in this report. See column headers all available options for this report.

Export Question Response Format 5(Exports PE Question

Organization Unit	Course	Session	Learner ID	Evaluator Name	Case/Scenario Name	Category Name	Category Group Name	Competency Name	Question Text	Response
EMS University		SOM CC 6/8/2014 8:30 AM	221	Degan, Ali	Carrie CC	POST ENCOUNTER			HISTORY: Describe the history you just obtained from this patient. Include only information (pertinent positives and negatives) relevant to this patient's problem(s).	Chest pain occurred 1 week ago: patient was going up the stairs when he suddenly began having left-sided chest pain, associated with some numbness in left arm and neck discomfort.
EMS University		SOM CC 6/8/2014 8:30 AM	221	Degan, Ali	Carrie CC	POST ENCOUNTER			PHYSICAL EXAMINATION: Describe any positive and negative findings relevant to this patient's problem(s). Be careful to include only	in no acute distress VS: BP elevated CV: RRR, no M/R/G Chest: CTAB

Format Type - Question Scores	Format Style 6

Question text and question number is in the column header. Question score in percentage and the number of response choices for each question. See column headers all available options for this report.

Export Question Scores Format 6

Organization Unit	Course	Session	Learner ID	Evaluator Name	Category Name	Category Group Name	Competency Name	Student Introduces self/hand hygiene/identifies patient*1	Student Introduces self/hand hygiene/identifies patient*1
EMS University		Physical Assessment 5/22/2014 11:00 AM	1382	Doa, Jen	Physical Assessment			100	2
EMS University		Physical Assessment 5/22/2014 11:30 AM	1367	Carroll, Genevieve	Physical Assessment			100	2
EMS University		Physical Assessment 5/22/2014 01:00 PM	996	Stalinski, Stan	Physical Assessment			100	2

Format Type - Category Scores	Format Style 1

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Category scores in percent, and Pass/Fail indication for each category. Categories are listed vertically down the column. See column headers all available options for this report.

Category Group Scores Format 1

Organization Unit	Course	Session	Learner ID	Learner Name	Evaluator Name	Category Name	Category Group Name	Competency Name	Score	Result (Pass / Fail)
EMS University		Physical Assessment 5/22/2014 11:00 AM	1382	Grenfell, Ana	Doa, Jen	Physical Assessment		Teamwork	100	Pass
EMS University		Physical Assessment 5/22/2014 11:00 AM	1382	Grenfell, Ana	Doa, Jen	Patient Care		Teamwork	100	Pass
EMS University		Physical Assessment 5/22/2014 11:00 AM	1382	Grenfell, Ana	Doa, Jen	Empathy		Teamwork	100	Pass
EMS University		Physical Assessment 5/22/2014 11:00 AM	1382	Grenfell, Ana	Doa, Jen	Communication		Teamwork	0	Fail

Format Type – Category Scores	Format Style 2

Category scores in percent and Pass/Fail indication for each category. Categories are listed horizontally across columns. See column headers all available options for this report.

Export Category Scores Format 2

Organization Unit	Course	Session	Learner ID	Learner Name	Case/Scenario Name	Allergies	Awareness	Communication Skills	Allergies	Awareness	Communication Skills
SIMULATIONiQ Enterprise		Vijay Session - C 6/20/2014 10:45 AM	210	Gupta, Vijay	Vijay Case - C	100	100	100	Pass	Pass	Pass
SIMULATIONiQ Enterprise		Vijay Session - C 6/20/2014 11:45 AM	554	Jennings, Brian	Vijay Case - C	100	0	100	Pass	Fail	Pass

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Format Type – Case/Scenario Scores	Format Style 1
Case/Scenario scores in percent and Pass/Fail indication. Cases/Scenarios are listed vertically down the Case/Scenario Name column. See column headers all available options for this report.	

Export Case Scores Format 1

Organization Unit	Course	Session	Learner ID	Learner Name	Case/Scenario Name	Score	Result (Pass/Fail)
EMS University		Physical Assessment 5/22/2014 11:00 AM	43324	Dougherty, Kenneth	Physical Assess.	97.22	Pass
EMS University		Physical Assessment 5/22/2014 11:30 AM	66754	Dougherty, Kenneth	NURS-23	100	Pass
EMS University		Physical Assessment 5/22/2014 11:00 AM	9775	Grossman, Heidi	Physical Assess.	62	Fail
EMS University		Physical Assessment 5/22/2014 11:30 AM	1382	Grossman, Heidi	NURS-23	100	Pass

Format Type – Case/Scenario Scores	Format Style 2
Case/Scenario scores in percent and Pass/Fail indication. Cases/Scenarios are listed across the top as column headers. See column headers all available options for this report.	

Export Case Scores Format 2

Organization Unit	Course	Session	Learner ID	Learner Name	Physical Assess.	Physical Assess.	NURS-22	NURS-23
EMS University		Physical Assessment 5/22/2014 11:00 AM	43324	Dougherty, Kenneth	97.22	Pass	100	Pass
EMS University		Physical Assessment 5/22/2014 11:00 AM	9775	Grossman, Heidi	62	Fail	100	Pass

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Format Type – Case/Scenario Collection Scores (Session Score)	Format Style 1

Score Type is set to Session. Session scores for multiple sessions according to date range. Includes Session scores in percent and Pass/Fail indication. Session names are listed vertically down the Session column. See column headers all available options for this report.

Export Case/Scenario Collection Scores Format 1

Organization Unit	Course	Session	Learner ID	Learner Name	Case/Scenario Collection Name	Score	Result (Pass/Fail)
EMS University		Physical Assessment 5/22/2014 11:00 AM	210	Deerfield, Jan	CC Collection	100	Pass
EMS University		CODE Session 5/22/2014 11:30 AM	210	Deerfield, Jan	CC Collection	70	Pass

Format Type – Case/Scenario Collection Scores (Session Score)	Format Style - 2

Score Type is set to Session. Session scores for multiple sessions according to date range. Scores in percent and Pass/Fail indication. Session names are distrusted across the top in column headers. See column headers all available options for this report.

Export Case/Scenario Collection Scores Format 2

Organization Unit	Course	Session	Learner ID	Learner Name	Physical Assessment 5/22/2014 11:00 AM	CODE Session 5/22/2014 11:30 AM
McLennan Community College		Physical Assessment 5/22/2014 11:00 AM	210	Deerfield, Jan	Pass	
McLennan Community College		CODE Session 5/22/2014 11:30 AM	210	Deerfield, Jan		Pass

Format Type – Category Group Scores	Format Style 1

Category Group score and Category name with percentage score per category group. See column headers all available options for this report.

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Export Category Group Scores Format 1

Organization Unit	Course	Session	Learner ID	Learner Name	Case/Scenario Name	Category Group Name	Score
EMS University		Physical Assessment 5/11/2014 11:00 AM	1382	Walls, Garrett	Physical Assess.	Physical Exam	100
EMS University		Physical Assessment 5/11/2014 11:00 AM	2365	Sheena, Talia	Physical Assess.	Physical Exam	75

Format Type –Default Format – ***is only for Session Scores***	**Format Style Default**

Session Score. When Search filters are defined in the upper left column, and then the **Export Score** button is selected, this is the default format that will be generated. See column headers all available options for this report.

Export Form Default Format

Organizational Unit	Course	Session	Learner Name	Evaluator Name	Category Group Name	Competency Name	Score	Result
EMS University		Respiratory Session 2/17/2013 12:30 PM	1, Learner	Barton, Cory			94.44	Pass
EMS University		Respiratory Session 2/17/2013 12:30 PM	1, Learner	Barton, Cory			94.44	Pass
EMS University		Respiratory Session 2/17/2013 12:30 PM	1, Learner	Barton, Cory			94.44	Pass
EMS University		Respiratory Session 2/17/2013 12:30 PM	1, Learner	1, Learner			94.44	Pass
EMS University		Respiratory Session 2/17/2013 12:30 PM	1, Learner	1, Learner			94.44	Pass

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Appendix D – List Reports

B

All grid lists can be printed from their task group. Click on the **Explore** or **Search** tabs on the left column, to select the item, which will populate a list on the right column. Use the Search field above the Search Result Page to further filter your results.

How to Print the List

Check the checkboxes next to the items to include in the report. Then click the **Print** hyperlink in the blue action bar, above the list.

I want to generate	Report Name	How to Generate List
Sign-in Sheet for Learner	Sessions & Courses	Session Activity page > Print button at the top right of page. Select Learner Sign In Log. Click Print.
Sign-in / Payroll Record Sheet for SP	Sessions & Courses	Session Activity page > Print button at the top right of page. Select SP Sign In Log/Payroll Record button. Click Print.
Questions	Items Library	Explore tab > Click on Questions, filter by Question Name. Category, Grading Type, Weight and Status.
Categories	Items Library	Explore tab > Categories. Filter search by Group Name and Status.
Category Group	Items Library	Explore tab > Category Group. Filter search by Category Name, Grading type, Weight, Pass %, and Status.
Competencies	Items Library	Explore tab > Categories. Filter search by Competency Name and Status.
Dictionary	Items Library	Explore tab > Dictionary. Filter by Keywords or Status.
Choice Groups	Items Library	Explore tab > Choice Group. Filter by Name or Status.
Multimedia files	Items Library	Explore tab > Support Files > Multimedia. Filter by Folder name, Title, Size, Parent Folder name, Status or Type (Audio, Documents, Images, Videos)
Lab Reports	Items Library	Explore tab >Support Files > Lab Reports. Filter Lab Report name, Report Group, type, or Status.
SOAP Note Abbreviations	Items Library	Explore tab > Support Files > SOAP Note Abbreviations. Filter by Abbreviation or Status.
All Cases and Scenarios in my system	Cases & Scenarios	Explore tab > Click on Cases, filter by Name, Title, Classification, Type, Date created, Status
List of Cases	Cases & Scenarios	Explore tab > Click on Cases > SP Cases, filter by Name, Title, Classification, Type, Date created, Status
List of Scenarios	Cases & Scenarios	Explore tab > Click on Cases > Scenarios, filter by Name, Title, Classification, Type, Date created, Status

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I want to generate	Report Name	How to Generate List
Classifications for Cases and Scenarios	Cases & Scenarios	Explore tab > Click on Cases > Checklists in the Explore tab, filter by Name, Type, Date Created, Status (Complete or Incomplete), Filter your list by Checklist types (Learner Pre-encounter, Learner Post-encounter, Learner Self-Assessment, Survey, Performance Assessment, SP Performance Assessment) by clicking on the sub menu items under Checklist.
Checklists	Cases & Scenarios	Explore tab > Click on Checklists, filter by Name, Title, Classification, Type, Date created, Status
EHR Patients	Cases & Scenarios	Explore tab > Click EHR (Electronic Health Records), filter by Patient Name, Gender, Age, Status.
EHR Classifications	Cases & Scenarios	Explore tab > Click on the classifications listed under the EHR (Electronic Health Records) listing.
Case Collection List	Cases & Scenarios	Explore tab > Click on Case Collections, filter by Name, Date Created, Status, Schedule Count (the number of times this collection has been scheduled in a sim session), Minimum Pass required to pass the case collection.
Trained Participants	Cases & Scenarios	Explore tab > Cases > check the checkboxes next to the cases to be included in the report
Case Trainer (used to train SPs)	Cases & Scenarios	Explore tab > Click on Case Trainer, filter by Patient Name, Age, Gender, Status
Follow-up Cases	Cases & Scenarios	Search tab > Check the Show Only Follow up Cases/Scenarios
List of Simulation Sessions	Sessions & Courses	Explore tab > Click on Simulation Sessions to see what is scheduled today, the last 7 days, last 30 days, or the next 30 days. Search tab > List of sessions by date or date range, by status (Pending, Scheduled, Cancelled, Out of Stock, Return for Submission), by duration, by room, by case/scenario, by evaluator, by SP.
Session Blueprint	Sessions & Courses	On the session's activity page, click the Print button located on the top right, select Session Blueprint > Staff Report or Learner Report
Course List	Sessions & Courses	Explore tab > Courses. Filter search by Course name, Case List, Start date and End Date, and Status.
EHR Exercises	Sessions & Courses	Explore tab > EHR Exercise. Filter your search by EHR Exercise name, Availability date, Due date, and Status.
Scheduled Surveys	Sessions & Courses	Explore tab > Survey. Filter search by Survey name, Availability date, due date and Status.
Scheduled Events	Sessions & Courses	Explore tab > Event. Filter search by Event name, Availability date, due date and Status.
Session Request List	Sessions & Courses	Explore tab > Request Session. Filter search by Session Name, Date, Duration, Rooms, Case/Scenario, Status and Requestor.
Blueprints	Sessions & Courses	Explore tab > Blueprints. Filter search by Blueprint name, Number of Rooms, Number of Encounters, and Status.
Inventory Availability	Sessions & Courses	Explore tab > Availability > Inventory. Filter search by Equipment Name, Unique ID, Type (Capital, Supply, Drug), Available Quantity, Reorder Quantity, Accounted Quantity and Status (Out of Stock, Available)
SP Availability	Sessions & Courses	Explore tab > Availability > User Availability. Filter Search by User Name, Start and End date of availability, Status and Confirmation of availability for a session.
Recorded Video	Video	Explore tab > Playback. Filter search by today's video, the last 2, 7, 14 or 30 days. Search tab > search by any date range

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I want to generate	Report Name	How to Generate List
Playlists	Video	Explore tab > Playlists. Filter search by today's video, the last 2, 7, 14 or 30 days.
Indexed	Video	Explore tab > Playback > Indexed. Filter search by Recorded Date, Room, Session name, Case/Scenario, or Learner, SP or Evaluator names.
Non Indexed	Video	Explore tab > Playback > Non Indexed. Filter search by Recorded Date, Room, Session name, Case/Scenario, or Learner, SP or Evaluator names.
Rooms	Video	Explore tab > Rooms. Lists all rooms, or select a particular room under Rooms to display video recorded using that room.
Bookmarks used	Video	Explore tab > Bookmarks. Filter search by Recorded Date, Room, Session name, Case/Scenario, or by Learner, SP or Evaluator names. Select the bookmark in the submenu under Bookmarks to search for video that used that particular bookmark.
Recordings by room	Video	Explore tab > Playback > Rooms. Filter search by Room name, Description, or the next upcoming session scheduled per room. Select a certain room in the Rooms submenu to view a list of recordings that used only that room.
Live view into a room	Video	Explore tab > Live. Select a room from the list on the right. Then click on the room name in the Room column to view.
Bookmark icons	Video	Explore tab > Bookmarks. Filter search by Name, Description, Bookmark Group name, or Status
Locked Video	Video	Search tab > Options, check Locked and Search
Unlocked Video	Video	Search tab > Options, check Unlocked and Search
Keyword search	Video	Search tab > Keywords, type in keyword or words, separated by comma.
List of Learner Assessments	Evaluations	Explore tab > Learner Assessments. Filter search by Today, Last 7 or 30 days, or use the Search tab to refine the date range, or to search by Session Name, Evaluator, Learner, Case/Scenario or Scoring Status
Ad hoc Assessments	Evaluations	Explore tab > Ad hoc Assessments.
SP Performance Assessments	Evaluations	Explore tab > SP Performance Assessments. Filter search by Today, Last 7 or 30 days, or use the Search tab to refine the date range, or to search by SP, Learner, Session Name, Evaluator, Case/Scenario or Scoring Status
Survey Submissions	Evaluations	Explore tab > Survey Submissions. Filter search by Today, Last 7 or 30 days, or use the Search tab to refine the date range, or to search by Survey name, Submitted by and Date.
Learner EHR Submissions	Evaluations	Explore tab > Learner Assessments. Filter search by Today, Last 7 or 30 days, or use the Search tab to refine the date range, or to search by Learner, Session Name, EHR Patient, Date and Scoring Status.
Learner Encounter Notes	Evaluations	Explore tab > Learner Assessments. Filter search by Today, Last 7 or 30 days, or use the Search tab to refine the date range, or to search by Learner, Session Name, Case/Scenario, Date, or Scoring Status
Pending Assessments (non-submitted evaluations and assessments	Evaluations	Explore tab > choose either Learner Assessments (Evaluations submitted by evaluators) or Learner Encounter Notes (Pre and Post Encounter submissions by learner). Select Today, Last 7 Days or Last 30 Days. For any date range, use the Search tab > Select Session Name, Date range, Evaluation Type, any other search filters. Click on Search. Check your selections from the list or select all by checking the top checkbox, and then click "Print" on the blue Action bar above the column headers.

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I want to generate	Report Name	How to Generate List
Published Reports	Scores & Reports	Explore tab > Published Reports. Filter search by Schedule name, Dated of Availability, Published date, and Status (Pending, Completed).
My Reports	Scores & Reports	Explore tab > My Reports Filter search by Schedule name, Dated of Availability, Published date, and Status (Pending, Completed).
Audit Score	Scores & Reports	Explore tab > Audit Score Reports. Filter search by who modified the score, Session name, Learner name and Description.
Data results from Scores and Statistical search criteria	Scores & Reports	When search filters are applied in the right column of either Analyze Score or Analyze Statistics, click on the Show Data Grid, check the items to be printed and click on Print on the blue action bar. See Data Grid section for more information.
All User Accounts	Settings	Explore tab > User Management > User List
Users by type	Settings	Explore tab > User Management > User List > User Type. Select the any of the user types (Educator, Administrator, SP, or Learner)
Users by Task Access Role	Settings	Explore tab > User Management > User List > User Task Access. Select the any of the User Task Access Roles in the list.
Pending Users	Settings	Explore tab > User Management > Pending Users
User Timesheets	Settings	Explore tab > User Management > User Timesheets
Pay Voucher	Settings	Explore tab > User Management > User Timesheets. Select user by checking the checkbox to the left of name, and then click on Payment Voucher on the blue action bar above the list grid.
Organization Structure	Settings	Explore tab > System Administration > Organization Structure. Select the Organizational Units by checking the checkbox(es) to the right of the item. Use the blue action bar to print, edit, change status or delete selected items.
Inventory	Settings	Explore tab > System Administration > Inventory. Click on Capital Equipment, Supplies or Drugs under Inventory to filter your list.
Task Access Roles	Settings	Explore tab > System Administration > Task Access
Email templates	Settings	Explore tab > System Configuration > Email Settings
System Updates	Settings	Explore tab > System Configuration > System Updates
Room Zones	Settings	Explore tab > AV Configuration > Zones
Rooms	Settings	Explore tab > AV Configuration > Rooms
Kiosk Activity log	Settings	Explore tab > Activity > Kiosk Activity

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Appendix E – Statistical Terms

B

Statistics reports will have statistical terms. These are based on http://statistics.berkeley.edu/~stark/SticiGui/Text/gloss.htm

Term	Description
Average	A sometimes vague term. It usually denotes the arithmetic mean, but it can also denote the median, the mode, the geometric mean, and weighted means, among other things.
Con Interval	A confidence interval (CI) is a particular kind of interval estimate of a population parameter and is used to indicate the reliability of an estimate. It is an observed interval (i.e. it is calculated from the observations), in principle different from sample to sample, that frequently includes the parameter of interest, if the experiment is repeated. How frequently the observed interval contains the parameter is determined by the confidence level or confidence coefficient. A confidence interval with a particular confidence level is intended to give the assurance that, if the statistical model is correct, then taken over all the data that might have been obtained, the procedure for constructing the interval would deliver a confidence interval that included the true value of the parameter the proportion of the time set by the confidence level
Highest	Highest value in the set
Inter Q Range	The interquartile range (IQR), also called the midspread or middle fifty, is a measure of statistical dispersion, being equal to the difference between the upper and lower quartiles.
Kurtosis	This is any measure of the "peakedness" of the probability distribution of a real-valued random variable. In a similar way to the concept of skewness, kurtosis is a descriptor of the shape of a probability distribution and, just as for skewness, there are different ways of quantifying it for a theoretical distribution and corresponding ways of estimating it from a sample from a population.
Lower 27	Bottom 27 percent students who have scored the maximum score defined for the question
Lowest	Lowest value in the set
Maximum	The highest value in a set.
Mean	The sum of a list of numbers, divided by the number of numbers
Median	A median is described as the numerical value separating the higher half of a sample, a population, or a probability distribution, from the lower half. The median of a finite list of numbers can be found by arranging all the observations from lowest value to highest value and picking the middle one. If there is an even number of observations, then there is no single middle value; the median is then usually defined to be the mean of the two middle values.
Minimum	The lowest value in a set.
N	The number of elements in a sample from a population

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Term	Description
Number Missing	Total no. of students for an item (question) who have answered as "*" or score is -999.99. This type of question choice is defined having "*" as score. At the time of scoring system generates score -999.99 for the question. If one student comes twice within above criteria then this will be counted as 2 (i.e. no distinct).
Passing Cut-off	Passing cut off score for the Session /Category Group /Category/Competency within data pool. This will be calculated as : *Mean (for the entity) - (Sigma Cutoff * StdDev)*
Passing Score	Minimum Passing cut off defined for the Session/Case/Category.
Percentile 25	A percentile (or centile) is the value of a variable below which a certain percent of observations fall. In this case, the 25th percentile is the value (or score) below which 25 percent of the observations may be found.
Percentile 50	The 50th percentile is the value (or score) below which 50 percent of the observations may be found.
Percentile 75	The 75th percentile is the value (or score) below which 75 percent of the observations may be found.
Point-biserial	The point biserial correlation coefficient (rpb) is a correlation coefficient used when one variable (e.g. Y) is dichotomous; Y can either be "naturally" dichotomous, like gender, or an artificially dichotomized variable. In most situations it is not advisable to artificially dichotomize variables. When you artificially dichotomize a variable the new dichotomous variable may be conceptualized as having an underlying continuity. If this is the case, a biserial correlation would be the more appropriate calculation. The point-biserial correlation is mathematically equivalent to the Pearson (product moment) correlation, that is, if we have one continuously measured variable X and a dichotomous variable Y, rXY = rpb. This can be shown by assigning two distinct numerical values to the dichotomous variable.
Range	The difference between the highest and the lowest values in a set
Range High	The highest score obtained by a student for Session/Case/Scenario/Category Group /Category/Competency within data pool.
Range Low	The lowest score obtained by a student for Session/Case/Scenario/Category Group /Category/Competency within data pool.
SD (Standard Deviation)	The standard deviation of a set of numbers is the Root-mean-square of the set of deviations between each element of the set and the mean of the set.
Sigma Cut-off	The Sigma value provided during report selection. This value can be 1/2/3/4/5. Sigma values will be calculated to display data in different colors. Calculation will be: One Sigma Below = Mean - (1* StdDev) One Sigma Above = Mean + (1* StdDev) Two Sigma Below = Mean - (2* StdDev) Two Sigma Above= Mean - (2* StdDev)
Skewness	This is a measure of the asymmetry of the probability distribution of a real-valued random variable. The Skewness value can be positive or negative, or even undefined. Qualitatively, a negative skew indicates that the tail on the left side of the probability density function is longer than the right side and the bulk of the values (possibly including the median) lie to the right of the mean. A positive skew

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Term	Description
	indicates that the tail on the right side is longer than the left side and the bulk of the values lie to the left of the mean. A zero value indicates that the values are relatively evenly distributed on both sides of the mean, typically but not necessarily implying a symmetric distribution.
Standard Error	The Standard Error of a random variable is a measure of how far it is likely to be from its expected value; that is, its scatter in repeated experiments. The SE of a random variable X is defined to be $SE(X) = [E((X - E(X))^2)]^{1/2}$. That is, the standard error is the square-root of the expected squared difference between the random variable and its expected value. The SE of a random variable is analogous to the SD of a list.
Sum of Scores	Sum of scores for a sample size.
Sum of Squares	Sum of Square of score for a sample size.
T Value	This T Value also known as Welch's t-test is used only when the two population variances are assumed to be different (the two sample sizes may or may not be equal) and hence must be estimated separately. The t statistic to test whether the population means are different can be calculated as follows: $t = \frac{\overline{X}_1 - \overline{X}_2}{s_{\overline{X}_1 - \overline{X}_2}}$ where $s_{\overline{X}_1 - \overline{X}_2} = \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}$. Where s2 is the unbiased estimator of the variance of the two samples, n = number of participants, 1 = group one, 2 = group two. This can be achieved by calculating the following statistics, for two sets, based on top 25 percent students within data pool for the case and for the item (question): N (say N1 and N2) Mean (say Mean1 and Mean2) SD (say SD1 and SD2) If SD is 0 for both sets then ***T Value*** will be displayed as "**N.A.**", otherwise ***T Value*** will be calculated as: (Mean1-Mean2)/SQRT((SQUARE(SD1)/N1) + (SQUARE(SD2)/N2)) This calculation excludes ***Number Missing*** criteria.
Upper 27	Top 27 percent students who have scored the maximum score defined for the question
Variance	The variance of a list is the square of the standard deviation of the list, that is, the average of the squares of the deviations of the numbers in the list from their mean.
XY	XY will be calculated as:

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Term	Description
	For Session: First get top 1 average Session score for the candidate within data pool. Say this value is SessionScore. Then get no. of questions scored for the candidate within data pool for the Session. Say this value is NoOfQuestions. Then XY for the case will be: XY = (SessionScore /100) * NoOfQuestions + ' /' + NoOfQuestions For example if SessionScore is 76.60 and NoOfQuestions is 61 then XY will be (47/61). This calculation will be rounded to 0. For Case: First get top 1 case score for the candidate within data pool for the case. Say this value is CaseScore. Then get no. of questions scored for the candidate within data pool for the case. Say this value is NoOfQuestions. Then XY for the case will be: XY = (CaseScore/100) * NoOfQuestions + ' /' + NoOfQuestions For example if CaseScore is 82.00 and NoOfQuestions is 38 then XY will be (31/38). This calculation will be rounded to 0. For Skills: First get average skill score for the candidate within data pool. Say this value is SkillScore. Then get no. of questions scored for the candidate within data pool for the skill. For competencies, this will be total no. of competencies scored by the candidate within data pool. Say this value is No Of Questions. Then XY for the case will be: X / Y XY = (SkillScore /100) * No Of Questions + ' / ' + No Of Questions For example if SkillScore is 91.48 and No Of Questions is 21 then XY will be (19/21). This calculation will be rounded to 0. If skill is category then average will be calculated for the category scores having weight is greater than 0. All above average calculations will excludes Number Missing Criteria.

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Appendix F – Weighted Mean Scores

B

Report Calculations: Weighted Mean

The weighted mean is a mean where there is some variation in the relative contribution of individual data values to the mean. Each data value (Xi) has a weight assigned to it (Wi). Data values with larger weights contribute more to the weighted mean and data values with smaller weights contribute less to the weighted mean. The formula is:

$$\bar{X}_w = \frac{\sum W_i X_i}{\sum W_i}$$

There are several reasons why you might want to use a weighted mean

1. Each individual data value might actually represent a value that is used by multiple people in your sample. The weight, then, is the number of people associated with that particular value.

2. Your sample might deliberately over represent or under represent certain segments of the population. To restore balance, you would place less weight on the over represented segments of the population and greater weight on the underrepresented segments of the population.

3. Some values in your data sample might be known to be more variable (less precise) than other values. You would place greater weight on those data values known to have greater precision.

Further reading

http://www.xycoon.com/weighted_mean.htm

http://en.wikipedia.org/wiki/Weighted_mean

Example Weighted Mean Scores

Example:

Let us take the example of a category “History” within a Case, which has 5 questions. The Category is scored on a scale of 1 to 5. Where 1 is poor and 5 is excellent and the scores for each grade is not linear but defined based on some standards (as depicted in the table under column Score) within the institute. The minimum pass for the “History” category is 40%.

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Student A

Question Number	SP Response	Score	Maximum Score	Percentage Score	Weight	Weighted Score
1	5	3.5	3.5	100.00 %	0.5	50.00
2	4	2.75	3.5	78.57 %	0.5	39.29
3	3	2.0	3.5	57.14 %	1	57.14
4	1	0.5	3.5	14.29 %	2	28.58
5	2	1.0	3.5	28.57 %	3	85.71

$$\text{The Score for the History Category} = \frac{\text{Sum of Weighted Score}}{\text{Sum of the Weights}} = \frac{50.00 + 39.29 + 57.14 + 28.58 + 85.71}{(0.5 + 0.5 + 1 + 2 + 3)} = \frac{260.72}{7} = 37.25\,\%$$

Example:

Let us take the example of a case "Chest Pain" within a Form, which has 4 categories. The Category scores are calculated as described in the previous section. The category scores are calculated as a percentage and then the weights are applied to each category to get the weighted score for each category. The weighted average score is then calculated for the case based on individual category scores and the weightage of each category within the case. The minimum score required for passing this case is 60%.

Student A

Category Name	% Score	Minimum Pass %	Must Pass	Weight	Weighted Score
History	65	60	No	1.5	97.50
Physical	80	65	No	0.5	40.00
Communication	55	50	Yes	1	55.00
ACIR	45	40	Yes	2	90.00
Patient Note	54	50	No	1.5	81.00

$$\text{The score for the "Chest Pain" Case} = \frac{\text{Sum of Weighted Score}}{\text{Sum of the Weights}} = \frac{97.50 + 40.00 + 55.00 + 90.00 + 81.00}{(1.5 + 0.5 + 1 + 2 + 1.5)} = \frac{363.50}{6.5} = 55.92\,\%$$

Student A will be marked as "Fail" for this case because the minimum pass required for case is 60% and the student weighted average score was only 55.92 %.

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Student B

Category Name	% Score	Minimum Pass %	Must Pass	Weight	Weighted Score
History	70	60	No	1.5	105.00
Physical	80	65	No	0.5	40.00
Communication	45	50	Yes	1	45.00
ACIR	60	40	Yes	2	120.00
Patient Note	70	50	No	1.5	105.00

$$\text{The score for the "Chest Pain" Case} = \frac{\text{Sum of Weighted Score}}{\text{Sum of the Weights}}$$

$$= \frac{105.00 + 40.00 + 45.00 + 120.00 + 105.00}{(1.5 + 0.5 + 1 + 2 + 1.5)}$$

$$= \frac{415.00}{6.5} = 69.17\,\%$$

Student B will be marked as "Fail" for this case, even though student B scored 69.17% which is more than the minimum required for this case. The student did not pass the communication category and got only 45%, overall based on the "Must Pass" requirement for Communication Category, hence Student B will be marked as failed.

Example:

Let us take the example of a Form "Neurological" with three cases in the system and the "Brain Tumor" marked as a must pass for the student in order to pass the test session for the Neurological Form specification. The Case scores are calculated as described in the previous section and each student is marked as pass or fail for each case. The case scores are calculated as a percentage and then the weights are applied to each case to get the weighted score for each case. Weighted average score is calculated for the form based on individual case scores and the weight of each case within the form. In order to pass this Test Session, a student must have a score of 60% for the form and must pass the Brain Tumor Case.

Student A

Case Name	% Score	Minimum Pass %	Must Pass	Weight	Weighted Score
Brain Tumor	65	60	Yes	2.0	130.00
Chest Pain	55	60	No	1.5	82.50
Cough & Cold	75	65	No	0.5	37.50

$$\text{The score for the "Neurological" Form} = \frac{\text{Sum of Weighted Score}}{\text{Sum of the Weights}}$$

$$= \frac{(130.00 + 82.50 + 37.50)}{(2.0 + 1.5 + 0.5)}$$

$$= \frac{250.00}{4.0} = 62.5\,\%$$

The Student A will be marked as Pass for the test session as the calculated score is 62.5% and the student has also passed the "Brain Tumor" case with 65% score.

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Student B

Case Name	% Score	Minimum Pass %	Must Pass	Weight	Weighted Score
Brain Tumor	60	60	Yes	2.0	120.00
Chest Pain	50	60	No	1.5	75.00
Cough & Cold	70	65	No	0.5	35.00

The score for the "Neurological" Form

$$= \frac{\text{Sum of Weighted Score}}{\text{Sum of the Weights}}$$

$$= \frac{(120.00 + 75.00 + 35.00)}{(2.0 + 1.5 + 0.5)}$$

$$= \frac{230.00}{4.0} = 57.5\,\%$$

The Student B will be marked as "Fail" for the test session as their score is 57.5% which is less than the minimum pass score required for the "Neurological" Form. The student passed the "Brain Tumor" case with 60% score, but since the weighted average score for the form is less than the minimum pass score required for the form, the student will be marked as failed.

Student C

Case Name	% Score	Minimum Pass %	Must Pass	Weight	Weighted Score
Brain Tumor	57	60	Yes	2.0	114.00
Chest Pain	75	60	No	1.5	112.50
Cough & Cold	90	65	No	0.5	45.00

The score for the "Neurological" Form

$$= \frac{\text{Sum of Weighted Score}}{\text{Sum of the Weights}}$$

$$= \frac{(114.00 + 112.50 + 45.00)}{(2.0 + 1.5 + 0.5)}$$

$$= \frac{271.50}{4.0} = 67.875\,\%$$

The Student C will be marked as Failed for the test session even though the weighted mean average score is 67.875 %, which is higher than the minimum pass score. The student failed in the case marked as a "Must Pass" for them. The student C got 57 % score for the "Brain Tumor" which was a must pass requirement for the student. (Dhingra,Sukhtej,2006)

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WORKSHEET

Question Number	Evaluator Response	Score	Maximum Score	Percentage Score	Weight	Weighted Score

$$\text{The Score for the Category} = \frac{\text{Sum of Weighted Score}}{\text{Sum of the Weights}}$$

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Appendix G – Report Parameters and Report Entities

B

Analyze Score

Evaluation Comparison Report

Parameters:
This report will be based on the following parameters: • Data Pool • Case • Evaluation Type • Evaluator • Student/Encounter • Reference Evaluator
Report Entities
The report will have the following entities:

Entity	**Definition**
Q. No.	Sequence no. of question in the checklist/case/scenario.
Question Text	Question text
Evaluator Response	Responses will be shown up to 5 evaluators including reference evaluator if provided. Every evaluator will be identified by text as “Faculty” or “Observer” or “SP”. If reference evaluator is provided then all disagreement responses will be displayed in RED color. If any evaluator did not response the question then response will be displayed as “No Response”.
Agreement	Agreement means evaluator response and referenced evaluator response is same. On every page (like page summary), no. of agreement with percent value will be printed. Percentage will be calculated on the base of reference evaluator response. Example: If there are 20 questions where evaluator1 agrees on 15 questions with the response given by reference evaluator, then No. of agreement will be 15 and in percent it will be (15/20) * 100 = 75%.
Disagreement	Disagreement means evaluator response and referenced evaluator response is not same. On every page (like page summary), no. of disagreement with percent value will be printed. Percentage will be calculated on the base of reference evaluator response. *Example:* If there are 20 questions where evaluator1 does not agree on 5 questions with the response given by reference evaluator, then No. of disagreement will be 5 and in percent it will be (5/20) * 100 = 25%.
General Comments	General comments, given by evaluators, will be printed on every page (like page summary).

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Evaluation Response Report

Parameters:
This report will be based on the following parameters: • Data Pool • Case • Evaluation Type • Category • Evaluator • Student/Encounter
Report Entities
The report will have the following entities:

Entity	**Definition**
Q. No.	Sequence no. of question in the checklist/case/scenario.
Question Text	Question Text.
Response	Response for the question.
Score	Score for the question in percent.

Score Report – Detailed

Parameters:
This report will be based on the following parameters: • Data Pool • Case • Evaluation Type (except survey) • Evaluator
Report Entities
The report will have the following entities:

Entity	**Definition**
Q. No.	Sequence no. of question in the checklist/case/scenario.
Question Text	Question Text.
Score	Score for the Forms/Case/Scenario/Category/Question in percent.
Result	Result for Form/Case/Scenario/Category. Result will be either PASS or FAIL.

Score Report – Summary

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Parameters:
This report will be based on the following parameters: • Data Pool • Case • Evaluation Type (except survey) • Evaluator
Report Entities
The report will have the following entities:

Entity	**Definition**
Score	Score for the Forms/Case/Scenario/Category/Question in percent. Form score will be printed in report header.
Result	Result for Form/Case/Scenario/Category. Result will be either PASS or FAIL. Form result will be printed in report header.

Score Report – Grading

Parameters:
This report will be based on the following parameters: • Data Pool • Case • Evaluation Type (except survey) • Evaluator
Report Entities
The report will have the following entities:

Entity	**Definition**
Q. No.	Sequence no. of question for the category. This will start with 1 for each category.
Question Text	Question Text.
Score	Response for the question. This will be the text for choice/option. Grading score will be printed for each category.

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Analyze Statistics

Advanced Statistics – Kappa Statistics

Parameters:	
This report will be based on the following parameters: • Data Pool	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
Question	Question text with question no. in the order of checklist.
Sample Size	Total no. of attempts for the question within data pool. If statistics is being calculated for individual SPs then this will be calculated for the SP only.
Kappa Value	Kappa Value. The calculation will be done as: Get total no. of students for the item for the case within data pool. This will be based on observer response. Say this number is TotalStudent. Calculate no. of agreements by comparing responses with observer and evaluator. Say this number is TotalAgreement. Calculate Observed agreement: ObservedAgreement= TotalAgreement/ TotalStudent. Now, calculate Chance agreement for each option. This will be calculated as: SPAttempts = Total no. of attempts for the grading/option by SP for the item. ObserverAttempts = Total no. of attempts for the grading/option by observer for the item. Then ChanceOfAgreement = sum of ((SPAttempts/ TotalStudent) * (ObserverAttempts/ TotalStudent). Kappa Value = (ObservedAgreement - ChanceOfAgreement) / (1 - ChanceOfAgreement) If ChanceOfAgreement is 1 then Kappa value will be displayed as '-NA-'.

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Advanced Statistics – Alpha Coefficient

Parameters:	
This report will be based on the following parameters: • Data Pool	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
Case Number	Case Name
Category Name	Category Name
Alpha Value	Described above
Questions	Total distinct no. of questions for the case/category within data pool.
Students	Total distinct no. of students for the case/category within data pool.

Item Analysis – Summary

Parameters:	
This report will be based on the following parameters: • Data Pool • Case • Evaluation Type • Evaluator	
Report Entities	
The report will have the following entities: ***Note: All calculations will be done separately for checklist (category is greater than 0) and post encounter (category is less than or equal to 0).***	
Entity	**Definition**
N (Sample Size)	Total no. of students within data pool for the case and for the item (question). If one student comes twice within data pool then this will be counted as 2 (i.e. no distinct). This calculation excludes ***Number Missing*** criteria. Count(*)
Number Missing	Total no. of students within data pool for the case and for the item (question) who have answered as "*" or score is -999.99. This type of question choice is defined having "*" as score. At the time of scoring system generates score -999.99 for the question. If one student comes twice within above criteria then this will be counted as 2 (i.e. no distinct). Count(*)
Mean	Average of scores within data pool for the case and for the item (question). This calculation excludes ***Number Missing*** criteria.

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Variance	This calculation excludes ***Number Missing*** criteria. SUM(SQUARE((SCORE)-*Mean*))/*N*
SD	Square root of ***Variance***. This calculation excludes ***Number Missing*** criteria. SQRT(SUM(SQUARE((SCORE)-*Mean*))/*N)*
Standard Error	***SD*** divided by square root of ***N.*** This calculation excludes ***Number Missing*** criteria. *SD/SQRT(N)*
Minimum	Minimum score obtained within data pool for the case and for the item (question). This calculation excludes ***Number Missing*** criteria. *MIN(SCORE)*
Maximum	Maximum score obtained within data pool for the case and for the item (question). This calculation excludes ***Number Missing*** criteria. *MAX(SCORE)*
Range	Difference of ***Maximum*** score and ***Minimum*** score within data pool for the case and for the item (question). *Maximum-Minimum*
Sum of Scores	Sum of scores within data pool for the case and for the item (question). This calculation excludes ***Number Missing*** criteria. *SUM*(*SCORE*)
Sum of Squares	Sum of Square of score within data pool for the case and for the item (question). This calculation excludes ***Number Missing*** criteria. *SUM(SQUARE(SCORE))*
Skewness	Skewness measures the extents of bulk of values in a distribution are concentrated to one side or other side of the mean. If the bulk of the values are less than the mean then it is positively skewed, if the bulk of the values are more than the mean then it is negatively skewed. Normal distribution has a Skewness of 0. $\text{Skewness} = \frac{\text{Sum}(x\text{-mean})^3}{N \times (SD^3)}$ If ***SD*** is 0 or ***N*** is 0 or 3rd Power of ***SD*** is 0 then ***Skewness*** will have invalid value and it will be displayed as "**N.A.**". Calculation will be based on within data pool for the case and for the item (question). This calculation excludes ***Number Missing*** criteria. ((SUM(POWER(((SCORE)- ***Mean***),3))) / (***N*** * POWER(***SD***,3)))
Kurtosis	Kurtosis measures the extent to which the values are concentrated in one part of a frequency distribution If one class or adjacent classes in a frequency distribution contains larger proportion of values in the distribution then the distribution has a high kurtosis (a very peaky). In a distribution with low degree of kurtosis all the class has an equal proportion of values so it is a more flat distribution. Normal distribution for Kurtosis is 3 $\text{Kurtosis} = \frac{\text{Sum}(x\text{-mean})^4}{N \times (SD^4)} - 3$

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	If ***SD*** is 0 or ***N*** is 0 or 4th Power of ***SD*** is 0 then ***Kurtosis*** will have invalid value and it will be displayed as "**N.A.**". Calculation will be based on within data pool for the case and for the item (question). This calculation excludes ***Number Missing*** criteria. ((SUM(POWER(((SCORE)- ***Mean***),4))) / (***N*** * POWER(***SD***,4))) - 3
T Value	This T Value also known as Welch's t-test is used only when the two population variances are assumed to be different (the two sample sizes may or may not be equal) and hence must be estimated separately. The t statistic to test whether the population means are different can be calculated as follows: $$t = \frac{\overline{X}_1 - \overline{X}_2}{s_{\overline{X}_1 - \overline{X}_2}}$$ where $$s_{\overline{X}_1 - \overline{X}_2} = \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}.$$ Where s2 is the unbiased estimator of the variance of the two samples, n = number of participants, 1 = group one, 2 = group two. This can be achieved by calculating the following statistics, for two sets, based on top 25 percent students within data pool for the case and for the item (question): N (say N1 and N2) Mean (say Mean1 and Mean2) SD (say SD1 and SD2) If SD is 0 for both sets then ***T Value*** will be displayed as "**N.A.**", otherwise ***T Value*** will be calculated as: (Mean1-Mean2)/SQRT((SQUARE(SD1)/N1) + (SQUARE(SD2)/N2)) This calculation excludes ***Number Missing*** criteria.
Percentile 25	A 25th percentile is a point in the score scale that divided a distribution so that 25% of the scores were equal to or lesser than that score value. ***Mean*** subtracted by the value of multiplication of ***SD*** and ***0.67***. Calculation will be based on within data pool for the case and for the item (question). This calculation excludes ***Number Missing*** criteria. ***Mean*** -(***SD*** * ***0.67***)
Percentile 50	A 50th percentile is a point in the score scale that divided a distribution so that 50% of the scores were equal to or lesser than that score value. This value will be based on MAXID calculated for ***Inter Q Range***. If MAXID is even number then ***Percentile 50*** will be the score from rows where row number is MAXID/2. If MAXID is odd number then ***Percentile 50*** will be average of score where rows between (MAXID-1)/2 AND (MAXID+1)/2.
Percentile 75	A 75th percentile is a point in the score scale that divided a distribution so that 75% of the scores were equal to or lesser than that score value. ***Mean*** added by the value of multiplication of ***SD*** and ***0.67***. Calculation will be based on within data pool for the case and for the item (question). This calculation excludes ***Number Missing*** criteria. ***Mean*** +(***SD*** * ***0.67***)

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Inter Q Range	It is one type of variability or dispersion. Ex if the sample size is 1,2,4,6,18,37,31,16,28,24,9,4 Remove the upper and lower quarters 4, 6, 9, 16, 18, 24 reduce the sample to the above said items now the interquartile range is 24-4= 20. First get maximum number of rows within data pool for the case and for the item excluding ***Number Missing***. Say the maximum number is MAXID. Then get value of MAX(SCORE)-MIN(SCORE) where row number between 0.25*MAXID AND 0.75*MAXID from the rows mentioned above. This value is ***Inter Q Range*** value. If this value is null then ***Inter Q Range*** will be 0.
Con Interval 1	First get Confidence Interval. Confidence Interval will be calculated as: If ***SD*** is 0 then Confidence Interval will be -100. Else if ***N*** is greater than or equal to 30 then Confidence Interval will be ***SE (Standard Error)*** * 1.64 (Z Score). Otherwise get T-DISTRIBUTION value from T-DISTRIBUTION table. This table contains the T-DISTRIBUTION values for different ***N***s. If ***N*** is 1 then ***N*** will be treated as 2. As query, ***SELECT NINTYNINE FROM T_DISTRIBUTION WHERE DF=N*** If T-DISTRIBUTION value is null then it will be treated as 0. The value of Confidence Interval will be ***SE (Standard Error)*** * T-DISTRIBUTION value. Then subtract Confidence Interval value from ***Mean***. The result will be ***Con Interval 1***. This step will make sure that subtraction will be based on 2 decimal places.
Con Interval 5	First get Confidence Interval. Confidence Interval will be calculated as: If ***SD*** is 0 then Confidence Interval will be -100. Else if ***N*** is greater than or equal to 30 then Confidence Interval will be ***SE (Standard Error)*** * 1.64 (Z Score). Otherwise get T-DISTRIBUTION value from T-DISTRIBUTION table. This table contains the T-DISTRIBUTION values for different ***N***s. If ***N*** is 1 then ***N*** will be treated as 2. As query, ***SELECT NINTYFIVE FROM T_DISTRIBUTION WHERE DF=N*** If T-DISTRIBUTION value is null then it will be treated as 0. The value of Confidence Interval will be ***SE (Standard Error)*** * T-DISTRIBUTION value. Then subtract Confidence Interval value from ***Mean***. The result will be ***Con Interval 5***. This step will make sure that subtraction will be based on 2 decimal places.
Con Interval 95	First get Confidence Interval. Confidence Interval will be calculated as: If ***SD*** is 0 then Confidence Interval will be -100. Else if ***N*** is greater than or equal to 30 then Confidence Interval will be ***SE (Standard Error)*** * 1.96 (Z Score). Otherwise get T-DISTRIBUTION value from T-DISTRIBUTION table. This table contains the T-DISTRIBUTION values for different ***N***s. If ***N*** is 1 then ***N*** will be treated as 2. As query, ***SELECT NINTYFIVE FROM T_DISTRIBUTION WHERE DF=N*** If T-DISTRIBUTION value is null then it will be treated as 0. The value of Confidence Interval will be ***SE (Standard Error)*** * T-DISTRIBUTION value. Then subtract Confidence Interval value from ***Mean***. The result will be ***Con Interval 95***. This step will make sure that subtraction will be based on 2 decimal places.
Con Interval 99	First get Confidence Interval. Confidence Interval will be calculated as: If ***SD*** is 0 then Confidence Interval will be -100.

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	Else if ***N*** is greater than or equal to 30 then Confidence Interval will be ***SE (Standard Error)*** * 2.58 (Z Score). Otherwise get T-DISTRIBUTION value from T-DISTRIBUTION table. This table contains the T-DISTRIBUTION values for different ***N***s. If ***N*** is 1 then ***N*** will be treated as 2. As query, ***SELECT NINTYNINE FROM T_DISTRIBUTION WHERE DF=N*** If T-DISTRIBUTION value is null then it will be treated as 0. The value of Confidence Interval will be ***SE (Standard Error)*** * T-DISTRIBUTION value. Then subtract Confidence Interval value from ***Mean***. The result will be ***Con Interval 99***. This step will make sure that subtraction will be based on 2 decimal places.

Item Analysis – Histogram

Parameters:	
This report will be based on the following parameters: • Data Pool • Case • Evaluation Type • Evaluator • Category • Class	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
N (Sample Size)	Total no. of students within data pool for the case and for the item (question). If one student comes twice within data pool then this will be counted as 2 (i.e. no distinct). If question is of type Custom then this will be distinct count for the session, case, question and candidate within data pool.
No. of attempts for each option with percentage	Total no. of attempts for the choice within data pool for the case and for the item. Percentage will be calculated as (***No. of Attempts***/***N***)*100.

Item Analysis – Discrimination

Parameters:
This report will be based on the following parameters: • Data Pool • Case • Evaluation Type • Evaluator
Report Entities
The report will have the following entities:

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Entity	Definition
N (Sample Size)	Total no. of students within data pool for the case. If one student comes twice within data pool then this will be counted as 2 (i.e. no distinct). This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report.
Mean Score	Average of case score within data pool for the case. This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report. *AVG(CASE SCORE)*
Median Score	The middle score in within data pool for the case. This will be calculated as: First get maximum number of case scores within data pool for the case. This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report. Say the maximum number is MAXID. If MAXID is even number then get case score say meadian1 where row number is MAXID/2. Then get case score say median2 where row number is (MAXID/2) +1. ***Median score*** will be the average of both scores. i.e. (meadian1 + median2)/2. If MAXID is odd number then ***Median score*** will be score where row number is (MAXID/2) +1.
Max Score	This will be 100. As score can be more than 100%.
Lowest Score	Minimum case score obtained within data pool for the case. This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report. *MIN(CASE SCORE)*
Highest Score	Maximum case score obtained within data pool for the case. This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report. *MAX(CASE SCORE)*
SD	This will be calculated for session score within data pool for the case. This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report. (*This will also be referred as S_t in the formula*) STDEVP(Session Score)
Overall %	This is average score for the item. This will be calculated as: Get total count for the question score equals to maximum score defined for the question within data pool for the case and for the item. Say this value is TotalCorrectResponse. Get total count for the question score within data pool for the case and for the item. Say this value is TotalCount. Now the ***overall %*** will be (TotalCorrectResponse/ TotalCount) * 100. If TotalCount is 0 then ***overall %*** will be 0. This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report.
Upper 27 %	Percentage of Top 27 percent students who have scored the maximum score defined for the question. This will be calculated as: Get count for the question score within data pool for the case for top 27 percent of students in the context of session score. Say this value is TotalCount. Get count for the question score equals to maximum score defined for the question within data pool for the case for top 27 percent of students in the context of session score. Say this value is TotalTop27. Now the ***Upper 27 %*** will be (TotalTop27/ TotalCount) * 100. If TotalCount is 0 then ***Upper 27 %*** will be 0. This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report.
Lower 27 %	Percentage of bottom 27 percent students who have scored the maximum score defined for the question. This will be calculated as: Get count for the question score within data pool for the case for bottom 27 percent of students in the context of session score. Say this value is

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	TotalCount. Get count for the question score equals to maximum score defined for the question within data pool for the case for bottom 27 percent of students in the context of session score. Say this value is TotalBottom27. Now the ***Lower 27 %*** will be (TotalBottom27/ TotalCount) * 100. If TotalCount is 0 then ***Lower 27 %*** will be 0. This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report.
Point Bi Serial	Point Bi-Serial Value of the item. (For details: http://www.jalt.org/test/bro_12.htm). This will be calculates as: If ***SD*** is 0 then ***Point Bi Serial*** will be displayed as "**N.A.**". Get Average score and count for the question where question score is not equals to maximum score defined for the question within data pool for the case. Say these values are MeanFail and TotalFail. Get average session score where question score is not equals to maximum score defined for the question within data pool for the case. Say this value is MeanSessionFail. If this value comes as null then this value will be reassigned with MeanFail. If MeanSessionFail is null after reassigning the value then it will be set to 0. (*MeanSessionFail will be referred as* M_q *in the formula*) Get Average score and count for the question where question score is equals to maximum score defined for the question within data pool for the case. Say these values are MeanPass and TotalPass. Get average session score where question score is equals to maximum score defined for the question within data pool for the case. Say this value is MeanSessionPass. If this value comes as null then this value will be reassigned with MeanPass. If MeanSessionPass is null after reassigning the value then it will be set to 0. (*MeanSessionPass will be referred as* M_p *in the formula*) Now get fail proportion by dividing TotalFail with (TotalFail + TotalPass). Say this value is FailProportion. FailProportion = TotalFail / (TotalFail + TotalPass). (*This will be referred as* ***q*** *in the formula*) Now get pass proportion by dividing TotalPass with (TotalFail + TotalPass). Say this value is PassProportion. PassProportion = TotalPass / (TotalFail + TotalPass). (*This will be referred as* ***p*** *in the formula*) Now, calculate ***Point Bi Serial*** for the item as: ***PointBiSerial*** (r_{pbi}) = (((MeanSessionPass – MeanSessionFail) / ***SD***) * SQRT(PassProportion * FailProportion)) The all above calculations exclude ***Number Missing*** criteria defined in ***Summary*** report.
Correct Answer	Correct answer for the item. The choice/option no. whose score is defined as maximum score for the question. For custom choices, this will be displayed as "Custom". If question category is defined with grading 2 then this will be either "Y" or "N". This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report.

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Response frequency	Attempted choices/options. No. of attempts for the choice/option within data pool for the case and for the question will be displayed beneath each choice/option. This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report.
Non Distractor	Un-attempted choices/options. Comma separated string for all un-attempted choices/options within data pool for the case and for the item. This calculation excludes ***Number Missing*** criteria defined in ***Summary*** report.

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Performance Statistics – Skill Summary

Parameters:	
This report will be based on the following parameters: • Data Pool	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
Score	Average Score for Session/Case/Scenario/Category Group/Category/Competency within data pool for the student.
Mean	Average score for Session/Case/Scenario/Category Group /Category/Competency within data pool.
StdDev	Standard Deviation for Case/Scenario/Category Group /Category/Competency within data pool. This will be calculated as standard: SQRT(SUM(SQUARE((SCORE)-***Mean***)) / ***N***) Where ***Mean*** is average score for the entity within data pool and ***N*** is number of records for the entity within data pool.
Range High	The highest score obtained by a student for Session/Case/Scenario/Category Group /Category/Competency within data pool.
Range Low	The lowest score obtained by a student for Session/Case/Scenario/Category Group /Category/Competency within data pool.
Passing Cut-off	Passing cut off score for the Session /Category Group /Category/Competency within data pool. This will be calculated as : ***Mean (for the entity)*** - (***Sigma Cutoff*** * ***StdDev***)
Sigma Cut-off	The Sigma value provided during report selection. This value can be 1/2/3/4/5. Sigma values will be calculated to display data in different colors. Calculation will be: One Sigma Below = ***Mean*** - (1* ***StdDev***) One Sigma Above = ***Mean*** + (1* ***StdDev***) Two Sigma Below = ***Mean*** - (2* ***StdDev***) Two Sigma Above= ***Mean*** - (2* ***StdDev***)
XY	XY will be calculated as: **For Session:** First get top 1 average Session score for the candidate within data pool. Say this value is SessionScore. Then get no. of questions scored for the candidate within data pool for the Session. Say this value is NoOfQuestions. Then XY for the case will be: XY = (SessionScore /100) * NoOfQuestions + ‘ /’ + NoOfQuestions

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	For example if SessionScore is 76.60 and NoOfQuestions is 61 then XY will be (47/61). This calculation will be rounded to 0. **For Case:** First get top 1 case score for the candidate within data pool for the case. Say this value is CaseScore. Then get no. of questions scored for the candidate within data pool for the case. Say this value is NoOfQuestions. Then XY for the case will be: XY = (CaseScore/100) * NoOfQuestions + ' /' + NoOfQuestions For example if CaseScore is 82.00 and NoOfQuestions is 38 then XY will be (31/38). This calculation will be rounded to 0. **For Skills:** First get average skill score for the candidate within data pool. Say this value is SkillScore. Then get no. of questions scored for the candidate within data pool for the skill. For competencies, this will be total no. of competencies scored by the candidate within data pool. Say this value is NoOfQuestions. Then XY for the case will be: XY = (SkillScore /100) * NoOfQuestions + ' /' + NoOfQuestions For example if SkillScore is 91.48 and NoOfQuestions is 21 then XY will be (19/21). This calculation will be rounded to 0. If skill is category then average will be calculated for the category scores having weight is greater than 0. All above average calculations will excludes Number Missing Criteria.

Performance Statistics – Learner Rank

Parameters:	

This report will be based on the following parameters:
• Data Pool
• Optional:
  ○ SD
  ○ Percentage for Above/Below mean	

Report Entities	
The report will have the following entities:	
Entity	**Definition**
Mean	Average score for Session/Case/Scenario//Category within data pool for the entity.
SD	Standard Deviation for Session/Case/Scenario//Category within data pool.

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	This will be calculated as: STDEVP(entity score)
Cut-off	Minimum Passing cut off defined for the Form/Case/Category within data pool.
Score	Score for Session/Case/Scenario/Category within data pool for students. The order of the scores will be descending. i.e. the highest scorer will come on top and lowest will go bottom.

Performance Statistics – Percentile Score

Parameters:	
This report will be based on the following parameters: • Data Pool • Optional: ○ Percentile for Top/Bottom	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
Student Score (SS)	Average score for Session/Case/Scenario//Category within data pool for the entity for the student.
Percentile Score (PR)	Percentile score for Session/Case/Scenario//Category within data pool for the entity. The calculation for percentile will be as: Get no. of scores which are less than or equal to the score for the student. Say this is NoBelowScore. Get no. of total scores. Say this is TotalScoreCount. Then percentile will be (NoBelowScore/ TotalScoreCount) * 100. Individual calculations will be done for session/Case/Category scores within data pool. CAST(SUM(CASE WHEN SCORE <= ***Student Score (SS)*** THEN 1 ELSE 0 END) AS FLOAT)/COUNT(*)
Over All Score	Average case score for the candidate within data pool.
Case Score	Case Score for the candidate within data pool.
Top/Bottom percentile	The calculation for the top/bottom will be as: Get total no. of students within data pool. Say this number is TotalStudents. Then top/bottom percentile will be: (TotalStudents * ***Percentile Provided***) /100. Top/bottom will be calculated in the order of case score for the students within data pool.

Performance Statistics – Class Summary

Parameters:
This report will be based on the following parameters:

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- Data Pool

Report Entities	
The report will have the following entities:	
Entity	**Definition**
Session	Session for which the details/statistics will be shown.
Case Name	Case name for which the details/statistics will be shown
Total	Total no. of students (including team) who's Session/Case score is available within data pool.
Team	Total no. of teams who's Session/Case score is available within data pool.
Male	Total no. of male students who's Session/Case score is available within data pool.
Female	Total no. of female students who's Session/Case score is available within data pool.
Other	Total no. of unidentified sex students, whose Session/Case score is available within data pool. i.e. gender is null in the table.
Mean	Average of Session/Case scores within data pool. This calculation excludes ***Number Missing*** criteria. *AVG(SCORE)*
Variance	This calculation excludes ***Number Missing*** criteria. SUM(SQUARE((SCORE)-*Mean*))/ *Total*
SD	Square root of ***Variance***. This calculation excludes ***Number Missing*** criteria. SQRT(SUM(SQUARE((SCORE)-*Mean*))/ *Total)*
Minimum	Minimum score obtained within data pool for the session/case This calculation excludes ***Number Missing*** criteria. *MIN(SCORE)*
Maximum	Maximum score obtained within data pool for the session/case This calculation excludes ***Number Missing*** criteria. *MAX(SCORE)*
Range	Difference of ***Maximum*** score and ***Minimum*** score within data pool for the Session/case. *Maximum-Minimum*
Pass %	Minimum Passing cut off defined for the Form/Case within data pool.
Case/Category Report	
N	Same as ***Total*** but for the Category of a case within data pool.
M	Same as ***Mean*** but for the Category of a case within data pool.
S	Same as ***SD*** but for the Category of a case within data pool.
Min	Same as ***Minimum*** but for the Category of a case within data pool.
Max	Same as ***Maximum*** but for the Category of a case within data pool.
Range	Same as ***Range*** (for Session/Case) but for the Category of a case within data pool.
P	Same as ***Pass %*** but for the Category of a case within data pool.

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Performance Statistics – History

Parameters:	
This report will be based on the following parameters: • Data Pool	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
Session Name	Session name for which the details/statistics will be shown.
Session	Session for which the details/statistics will be shown.
Case	Case name for which the details/statistics will be shown
Category	Category name for which the details/statistics will be shown
Score	Score for Session/Case/Category for the student within data pool.
Class Mean	Average of Session/Case/Category scores within data pool. This calculation excludes ***Number Missing*** criteria. *AVG(SCORE)*
Minimum	Minimum score obtained within data pool for the session/case/category. This calculation excludes ***Number Missing*** criteria. *MIN(SCORE)*
Maximum	Maximum score obtained within data pool for the session/case/category. This calculation excludes ***Number Missing*** criteria. *MAX(SCORE)*
Range	Difference of ***Maximum*** score and ***Minimum*** score within data pool for the Session/case/category. *Maximum-Minimum*
Passing score	Minimum Passing cut off defined for the Form/Case/Category within data pool.

Performance Statistics – Chart

Parameters:	
This report will be based on the following parameters: • Data Pool	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
S	Score for Case/Category for the student within data pool.
M	Average of Case/Category scores within data pool. *AVG(SCORE)*
SD	Standard Deviation. This will be calculated as:

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	SQRT(SUM(SQUARE(Score-***M***)) / Total no. of Student within data pool)

Performance Statistics - Comparison

Parameters:	
This report will be based on the following parameters: • Data Pool	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
Form Name	Form name for which the details/statistics will be shown.
Case	Case name for which the details/statistics will be shown
Category	Category name for which the details/statistics will be shown
Total	Total no. of students within data pool for the Form/Case/Category
Score	Score for Session/Case/Category for the student within data pool.
Class Mean	Average of Session/Case/Category scores within data pool. This calculation excludes ***Number Missing*** criteria. *AVG(SCORE)*
Minimum	Minimum score obtained within data pool for the session/case/category. This calculation excludes ***Number Missing*** criteria. *MIN(SCORE)*
Maximum	Maximum score obtained within data pool for the session/case/category. This calculation excludes ***Number Missing*** criteria. *MAX(SCORE)*
Range	Difference of ***Maximum*** score and ***Minimum*** score within data pool for the Session/case/category. *Maximum-Minimum*
Passing score	Minimum Passing cut off defined for the Form/Case/Category within data pool.
StdDev	Standard Deviation. This calculation excludes ***Number Missing*** criteria. SQRT(SUM(SQUARE((SCORE)-*Mean*))/ *Total)*

Standardized Score – Chart

Parameters:
This report will be based on the following parameters: • Data Pool
Report Entities

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The report will have the following entities:	
Entity	**Definition**
Original Score	Original Score range for Session/Case/Scenario/Category Group/Category within data pool.
Standardize Score	Standardized Score range for Session/Case/Scenario/Category Group/Category within data pool. Calculation will be: (*SDStandardized* * ((original score - *Mean*) / *SD*)) + *MeanStandardized* If *SD* is 0 then Standardized Score will be provided mean i.e. Standardized Mean.
Original Mean (*Mean*)	Average of original Score for Session/Case/Scenario/ Category Group/Category within data pool.
Standardized Mean (*MeanStandardized)*	Provided Mean
Original Standard Deviation (*SD*)	SQRT(SUM(SQUARE(Score- *Original Mean*)) / Sample Size)
Standardized Standard Deviation (*SDStandardized*)	Provided Standard Deviation

Standardized Score – Learner Specific

Parameters:	
This report will be based on the following parameters: • Data Pool	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
Original Score	Average of Original Score for Session/Case/Scenario/ Category Group/Category within data pool for the student.
Standardize Score	Average of Standardized Score for Session/Case/Scenario/ Category Group/Category within data pool for the student. Calculation will be: (*SDStandardized* * ((original score - *Mean*) / *SD*)) + *MeanStandardized* If *SD* is 0 then Standardized Score will be provided mean i.e. Standardized Mean. Where : • *SD* will be calculated as defined in the Chart Report • *Mean* will be calculated as defined in the Chart Report • *SDStandardized* is mentioned in Chart Report • *MeanStandardized* is mentioned in Chart Report

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Survey Analysis – Statistics

Parameters:	
This report will be based on the following parameters: • Data Pool • Survey Type	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
N (Sample Size)	Total no. of respondents within data pool for the item (question). If one respondent comes twice within data pool then this will be counted as 2 (i.e. no distinct).
No. of attempts for each option with percentage	Total no. of attempts for the choice within data pool for the Survey/Case/Item. Percentage will be calculated as (***No. of Attempts***/***N***)*100.

Survey Analysis – Analysis

Parameters:	
This report will be based on the following parameters: • Data Pool • Survey Type	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
S. No.	Serial No.
Name	Name of Form/Case/Category/Category group
Sample Size	Total no. of students within data pool for the item (question). This calculation excludes ***Number Missing*** criteria.
Selected Sample Size	Total no. of students whose responses are matching with provided survey answers within data pool for the items (questions). This calculation excludes ***Number Missing*** criteria.
Mean	Average score for the Form/Case/Category/Category group within data pool. This calculation excludes ***Number Missing*** criteria.
Selected Mean	Average score for the Form/Case/Category/Category group for the students whose responses are matching with provided survey answers within data pool. This calculation excludes ***Number Missing*** criteria.
SD	Standard deviation. SQRT(SUM(SQUARE((SCORE)-*Mean*)) / *Sample Size*)
Selected SD	Standard deviation for the students with matching responses or scores. SQRT(SUM(SQUARE((SCORE)-*Selected Mean*)) / *Selected Sample Size*)

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Parameters:	
This report will be based on the following parameters: • Data Pool • Survey Type	
Report Entities	
The report will have the following entities:	
Entity	**Definition**
N (Sample Size)	Total no. of respondents within data pool for the item (question). If one respondent comes twice within data pool then this will be counted as 2 (i.e. no distinct).
No. of attempts for each option with percentage	Total no. of attempts for the choice within data pool for the Survey/Case/Item. Percentage will be calculated as (***No. of Attempts***/***N***)*100.

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Appendix H – Creating a Pivot Table in MS Excel with Report Data

B

EMS does not provide training in Excel, but as a bonus, we have included these instructions to create a Pivot Table from your Excel spreadsheet.

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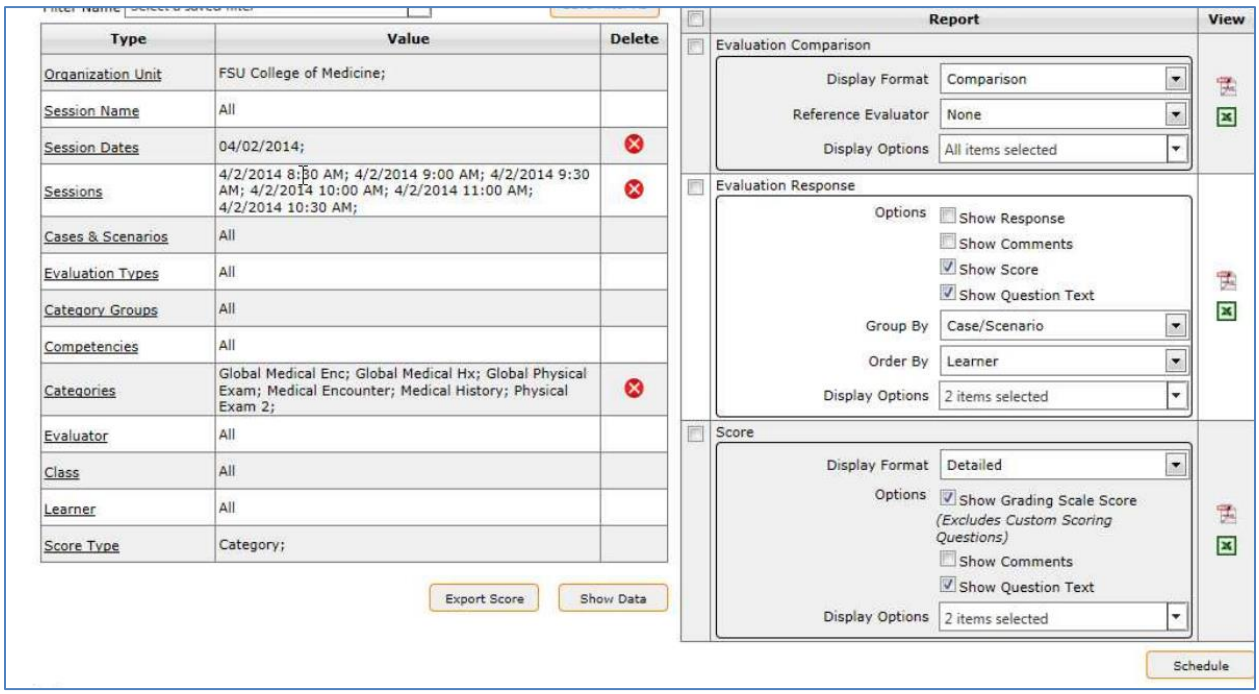
Objective of creating a Pivot table from an Excel generated report: So that exported data that includes Category scores as column headers across the top and Learner names listed vertically.

Scores & Reports:

1. Generate the Excel report by selecting filters in left column



2. Click on **SHOW DATA** button at the bottom of the column.

3. The data will populate the **DATA Grid** below.

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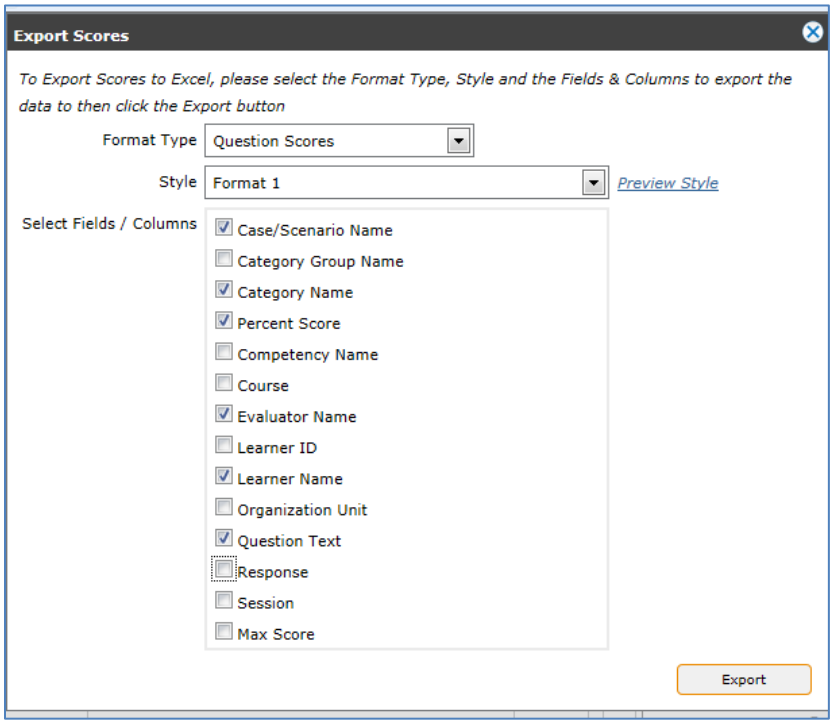
4. Exported data from Data Grid in Scores & Reports by clicking on the checkboxes of the items you want to export and clicking on Export on the blue action bar above the columns; or Export All data. If there are more than 500 records, click on the Export Score button.

5. Select Format Type: Question if you want to include question scores and/or question text, or Category to include category names and scores.

6. Style: Format 1

7. Select the checkboxes of the information to be included in your spreadsheet.



1. Click **Export**.

2. You may have a message at the bottom of your page to **Open** or **Save** Excel document.

3. Choose **Open**.

<u>In Excel</u>

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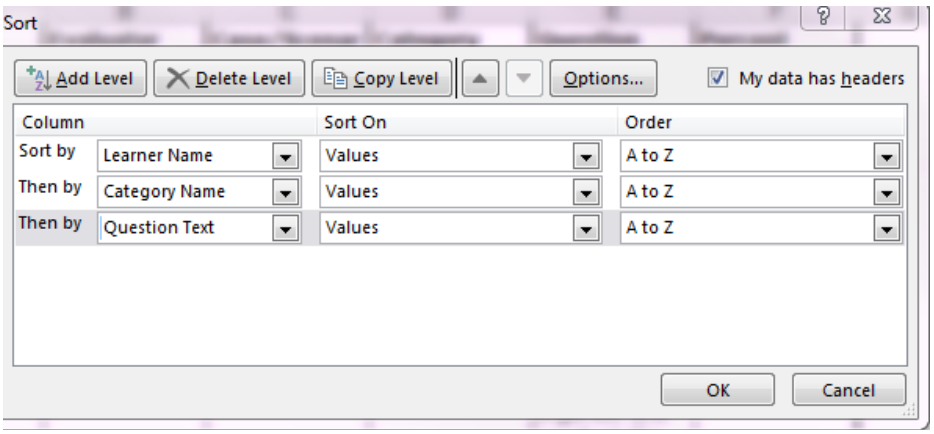
1. Click "**Enable Editing**" at the top of your spreadsheet.

2. Delete the top row with header text and last row with the exported date.

3. Highlight entire data cells in the spreadsheet.

4. Data > Sort

5. Sort by Learner Name, Click "**Add Level**" two times to add a row for Category Name, Question Text (in this order).



6. While spreadsheet is still highlighted, Insert menu > **Pivot table**

7. Keep the default settings:

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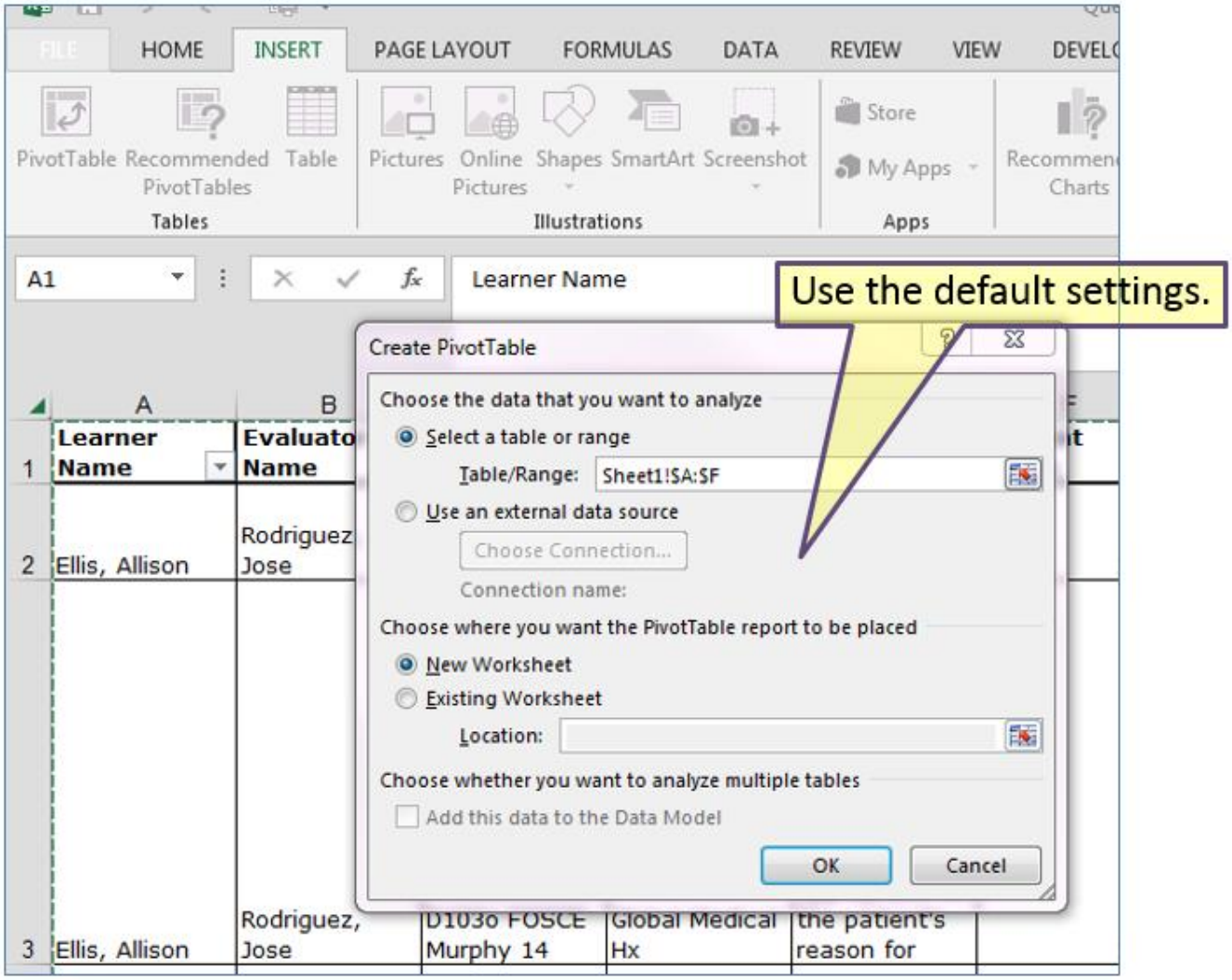

8. This window will pop up instructing to check the items on the right to include in the Pivot Table.

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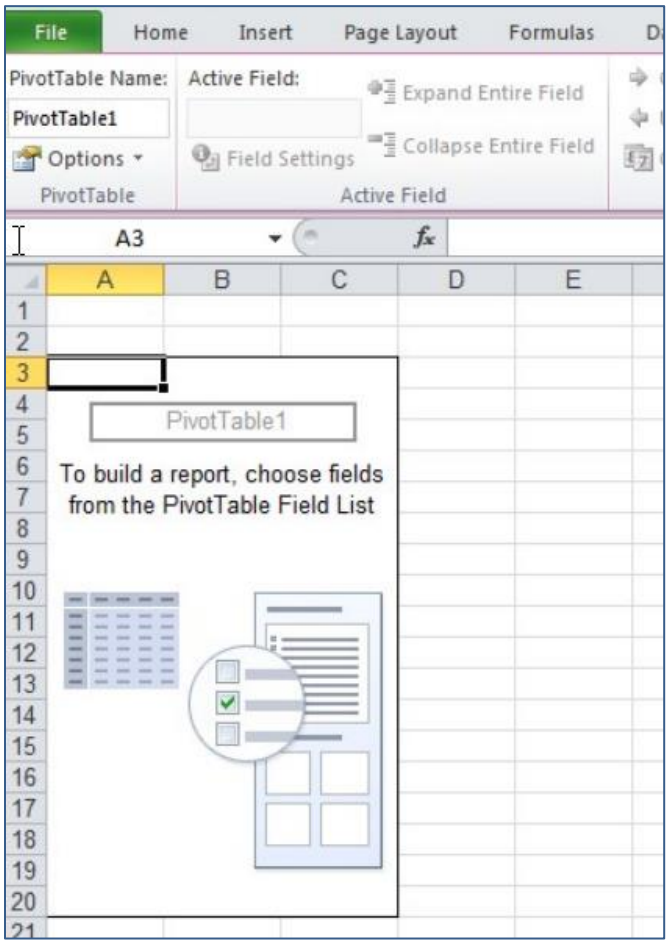

9. Drag these items from the Pivot table fields:

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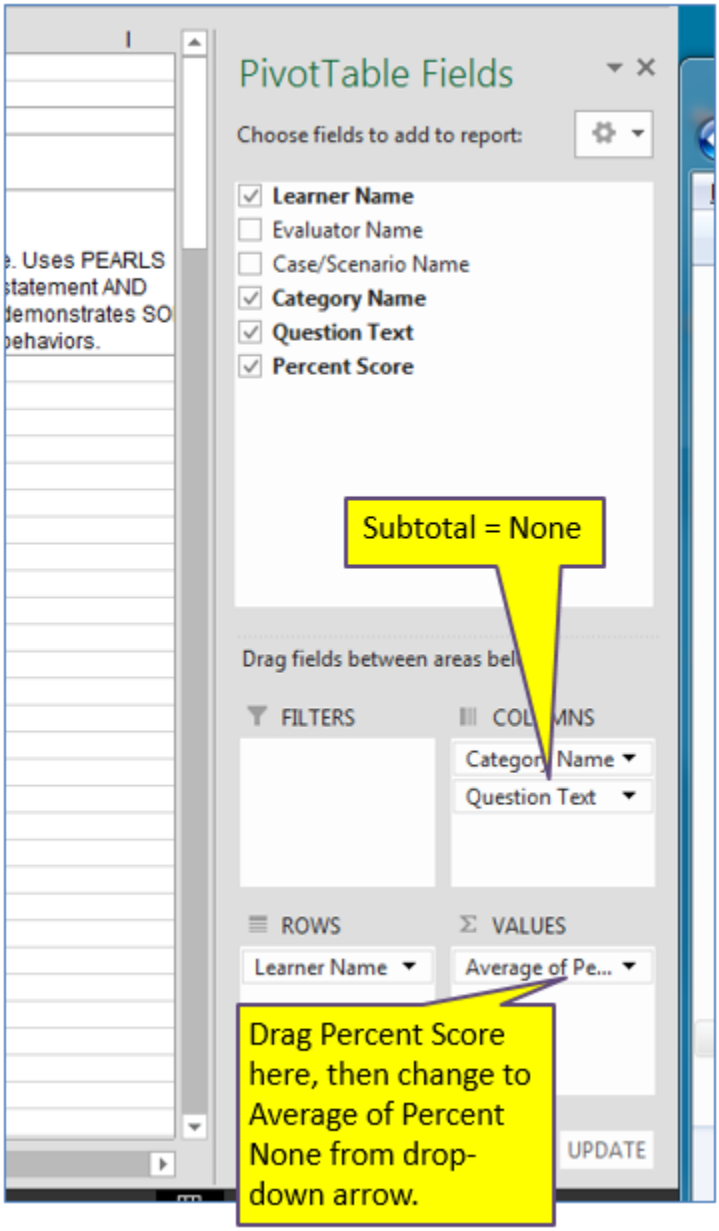

10. **Learner Name** drag to Rows

11. **Category Name** drag to top of Columns

12. **Question Text** drag to below Category Name

13. **Percent Score** drag to Values

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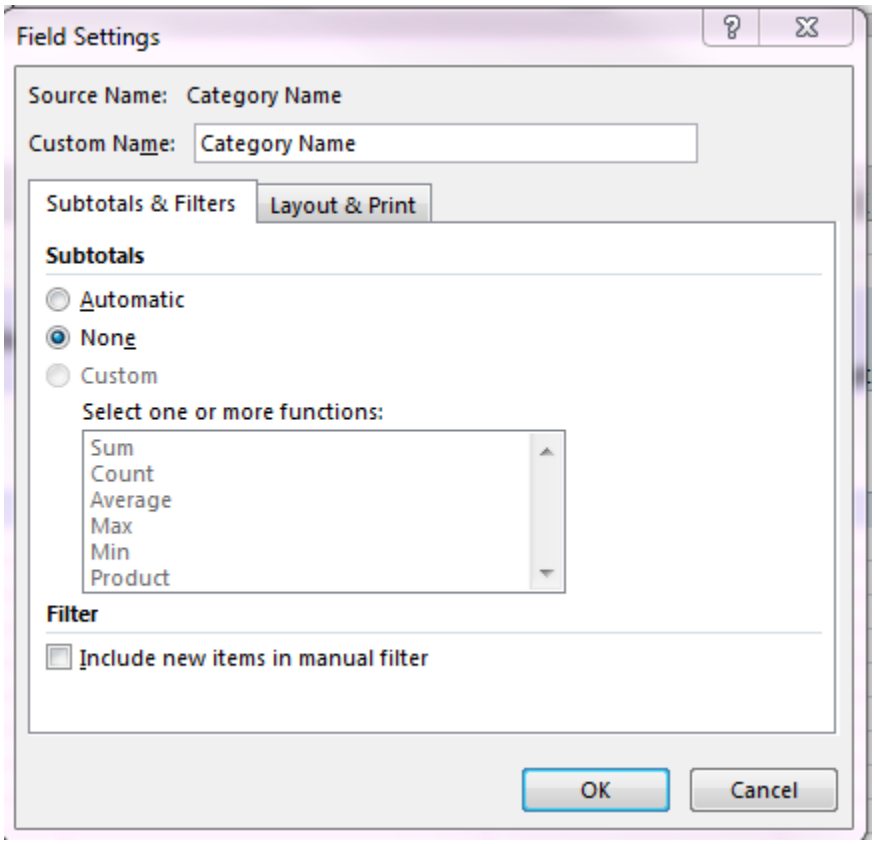
Change Field Settings for the Columns, Rows and Values:

1. Click down arrow for Category Name and change Field Settings to Subtotal = None

2. Click down arrow for Percent Score and change Field Settings to Subtotal =None

3. Click down arrow for Question text and change Field Settings to Subtotal = None

4. Click down arrow for Count of % and change Field Settings to Average of Percentage



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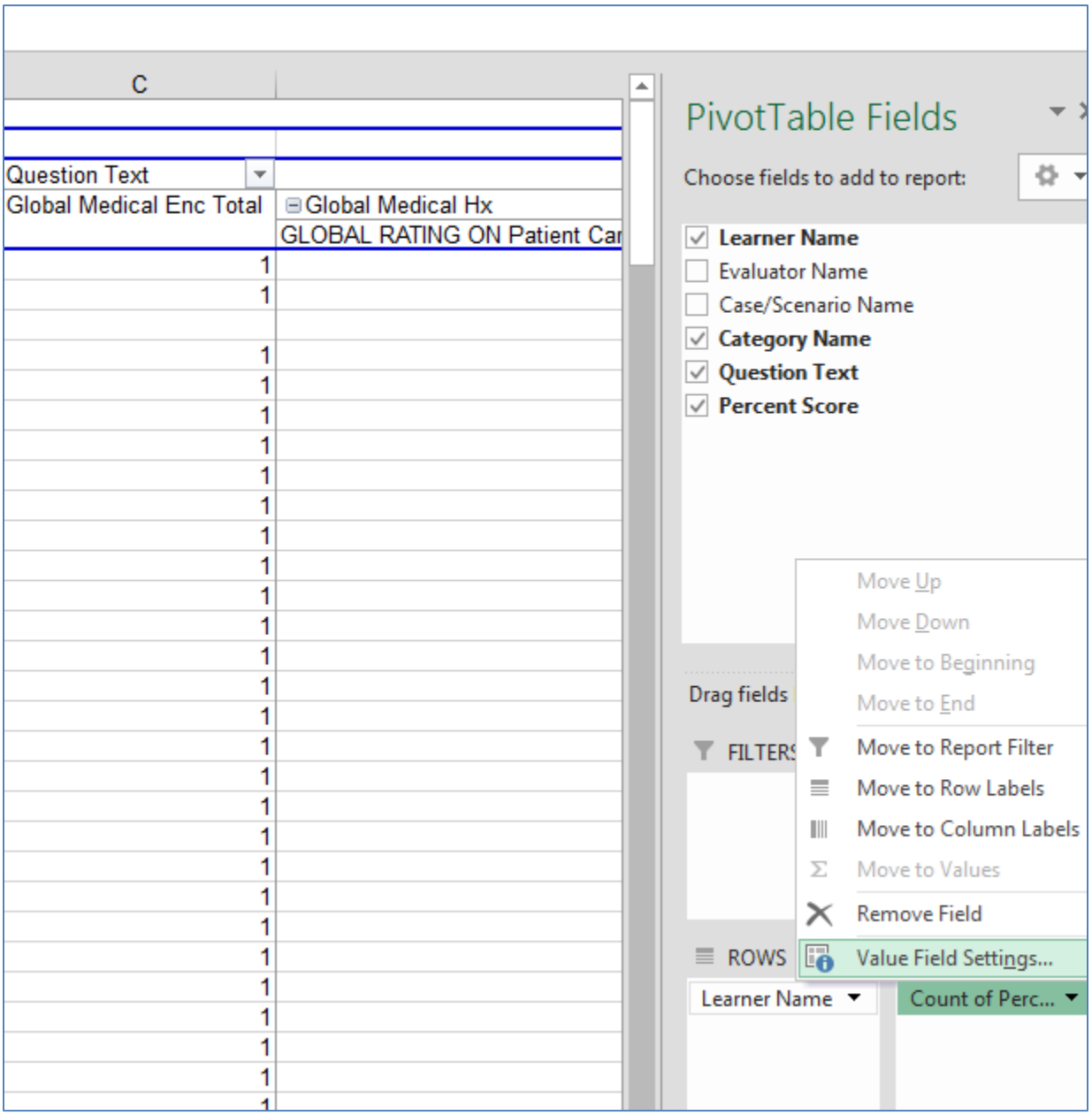

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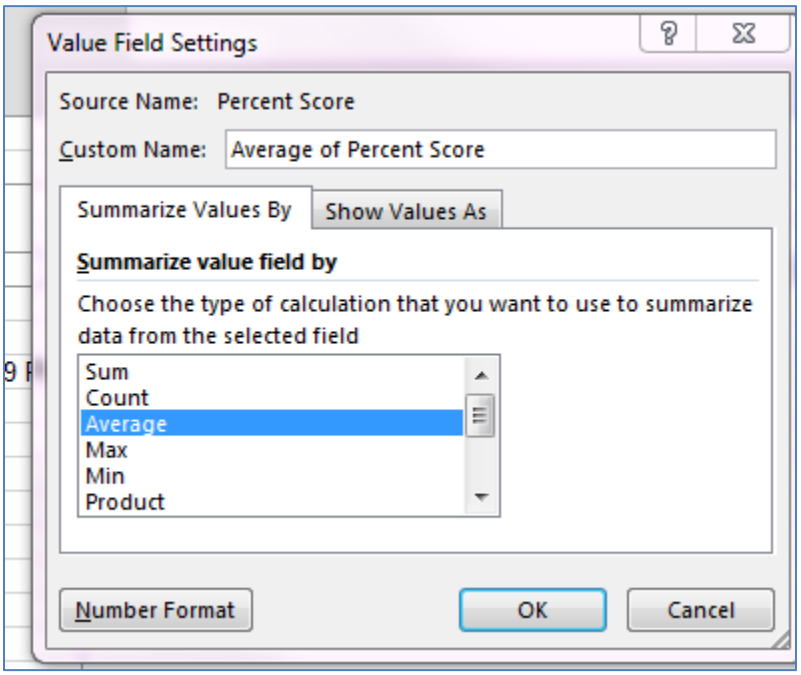

Highlight column B to last column to the right, right click, column width = 7.5 (this fits the columns on one screen).

Rearrange the columns

1. Click the minus sign next to the Category names to collapse them

2. Click the Category Name Cell (Row 4)

3. Rearrange the columns by dragging them (be sure to have the 4-point cross arrow cursor) into the position you would like. Drop your cursor when you see the green line. The column will be placed to the left.

4. If you don't need the Grand Total column and row, delete by highlighting Grand total heading and right click, select Delete Grand Total.

Colorize data below 75%

1. Highlight all numerical data

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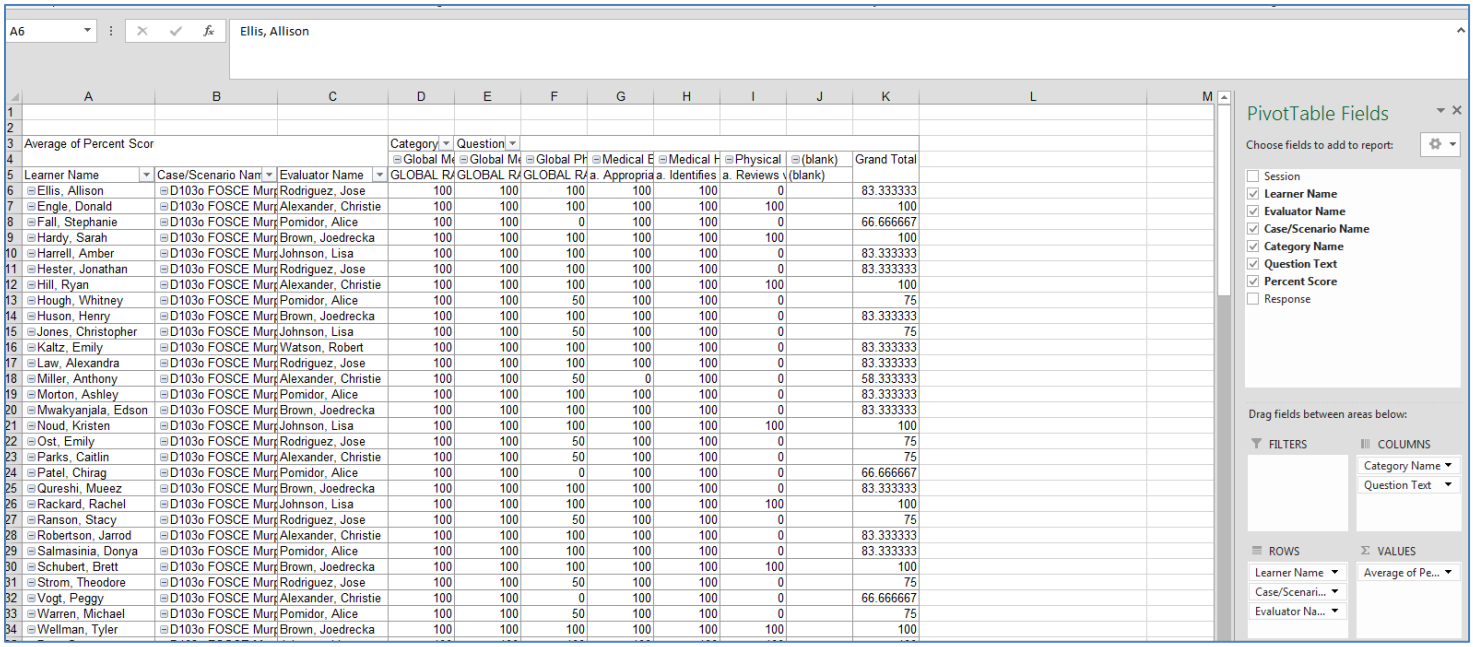
a. Home > Conditional Formatting > Cell rules > Less than and input .75 or the percentage of choice.

2. Save document

This is how it should look:



Average of Percent Scor			Category	Question						
			Global Me	Global Me	Global Ph	Medical E	Medical H	Physical	(blank)	Grand Total
Learner Name	Case/Scenario Nan	Evaluator Name	GLOBAL RA	GLOBAL RA	GLOBAL RA	a. Appropria	a. Identifies	a. Reviews v	(blank)	
Ellis, Allison	D103o FOSCE Murp	Rodriguez, Jose	100	100	100	100	100	0		83.333333
Engle, Donald	D103o FOSCE Murp	Alexander, Christie	100	100	100	100	100	100		100
Fall, Stephanie	D103o FOSCE Murp	Pomidor, Alice	100	100	0	100	100	0		66.666667
Hardy, Sarah	D103o FOSCE Murp	Brown, Joedrecka	100	100	100	100	100	100		100
Harrell, Amber	D103o FOSCE Murp	Johnson, Lisa	100	100	100	100	100	0		83.333333
Hester, Jonathan	D103o FOSCE Murp	Rodriguez, Jose	100	100	100	100	100	0		83.333333
Hill, Ryan	D103o FOSCE Murp	Alexander, Christie	100	100	100	100	100	100		100
Hough, Whitney	D103o FOSCE Murp	Pomidor, Alice	100	100	50	100	100	0		75
Huson, Henry	D103o FOSCE Murp	Brown, Joedrecka	100	100	100	100	100	0		83.333333
Jones, Christopher	D103o FOSCE Murp	Johnson, Lisa	100	100	50	100	100	0		75
Kaltz, Emily	D103o FOSCE Murp	Watson, Robert	100	100	100	100	100	0		83.333333
Law, Alexandra	D103o FOSCE Murp	Rodriguez, Jose	100	100	100	100	100	0		83.333333
Miller, Anthony	D103o FOSCE Murp	Alexander, Christie	100	100	50	0	100	0		58.333333
Morton, Ashley	D103o FOSCE Murp	Pomidor, Alice	100	100	100	100	100	0		83.333333
Mwakyanjala, Edson	D103o FOSCE Murp	Brown, Joedrecka	100	100	100	100	100	0		83.333333
Noud, Kristen	D103o FOSCE Murp	Johnson, Lisa	100	100	100	100	100	100		100
Ost, Emily	D103o FOSCE Murp	Rodriguez, Jose	100	100	50	100	100	0		75
Parks, Caitlin	D103o FOSCE Murp	Alexander, Christie	100	100	50	100	100	0		75
Patel, Chirag	D103o FOSCE Murp	Pomidor, Alice	100	100	0	100	100	0		66.666667
Qureshi, Mueez	D103o FOSCE Murp	Brown, Joedrecka	100	100	100	100	100	0		83.333333
Rackard, Rachel	D103o FOSCE Murp	Johnson, Lisa	100	100	100	100	100	100		100
Ranson, Stacy	D103o FOSCE Murp	Rodriguez, Jose	100	100	50	100	100	0		75
Robertson, Jarrod	D103o FOSCE Murp	Alexander, Christie	100	100	100	100	100	0		83.333333
Salmasinia, Donya	D103o FOSCE Murp	Pomidor, Alice	100	100	100	100	100	0		83.333333
Schubert, Brett	D103o FOSCE Murp	Brown, Joedrecka	100	100	100	100	100	100		100
Strom, Theodore	D103o FOSCE Murp	Rodriguez, Jose	100	100	50	100	100	0		75
Vogt, Peggy	D103o FOSCE Murp	Alexander, Christie	100	100	0	100	100	0		66.666667
Warren, Michael	D103o FOSCE Murp	Pomidor, Alice	100	100	50	100	100	0		75
Wellman, Tyler	D103o FOSCE Murp	Brown, Joedrecka	100	100	100	100	100	100		100

Colorize Your Pivot Table

In the Design menu select a Pivot Table Style to apply to your spreadsheet.

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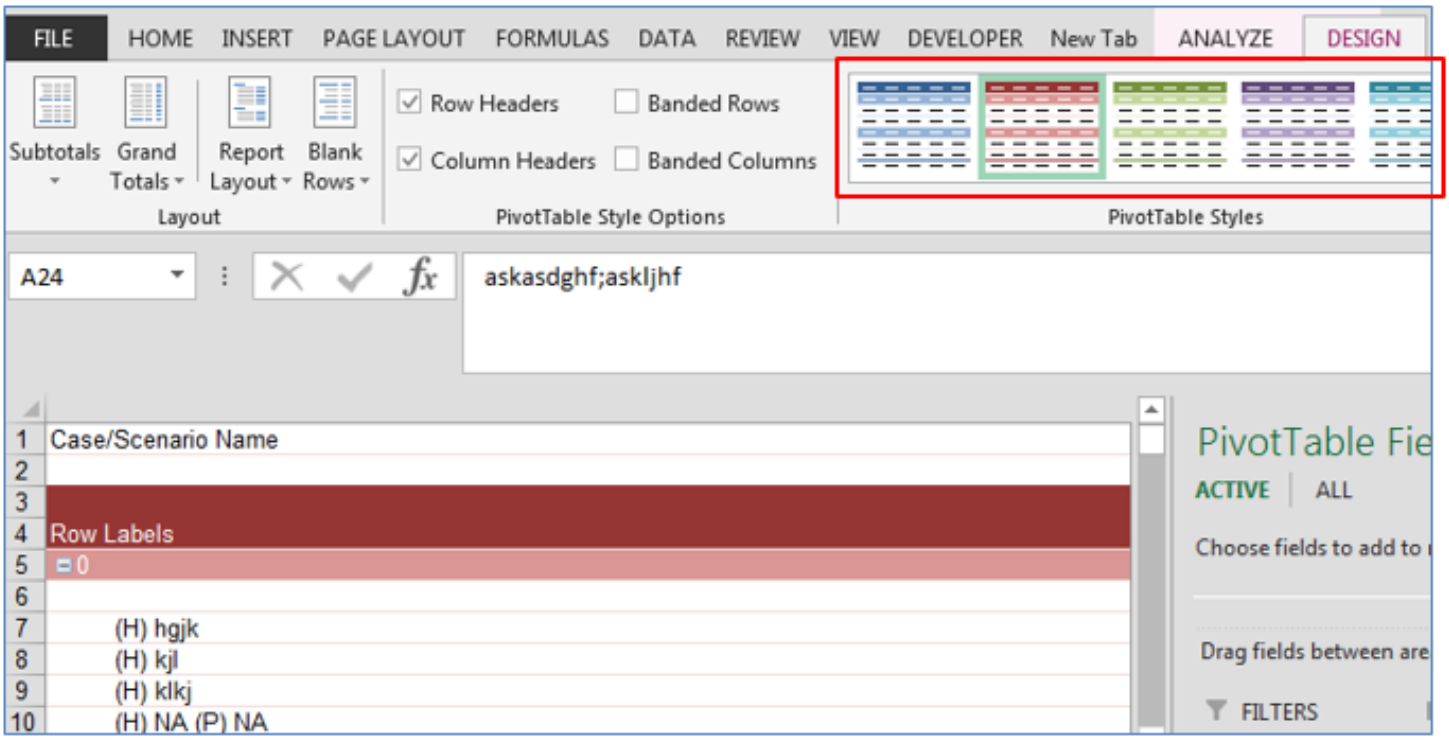

How to Create a Chart From Your Pivot Table

In this example, a pivot table was created using instructions in the previous section, and then a chart can be generated.

Average of Score	Column Labels					
	!amblyopia		!shattered hip			Grand Total
	Communication Education and Counseling	Communication Skills	Communication Education and Counseling	Communication Skills	hypnophobia	
Row Labels	Pass	Pass	Pass	Pass	Fail	
Anne, Grace	6	4	2	2.5	0	3.916666667
Augusta, Eva	4.5	3	1.5	3	0	2.8125
Cozombolidis, Alexis	0.5	2.5	1.5	3	0	1.6875

1. A report was generated in Scores & Reports, using Format Type: Category
2. Style: Format 1
3. Follow the previous instructions to create the Pivot
4. Select the data in the Grand Total column

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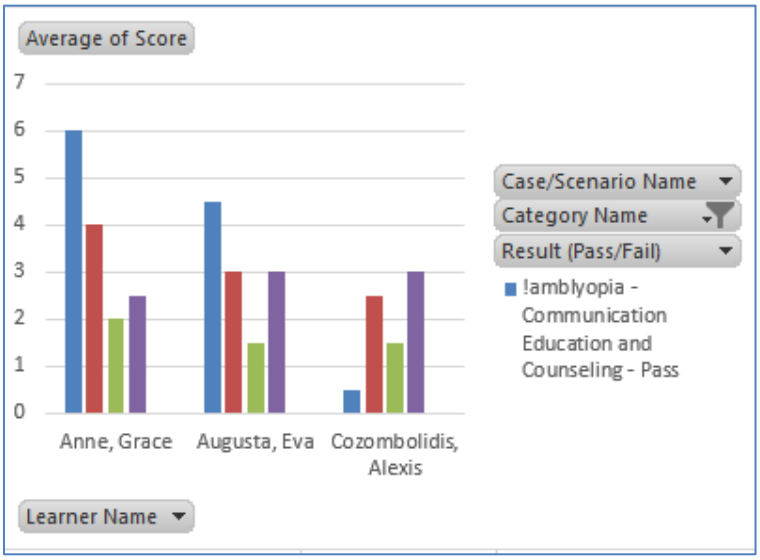
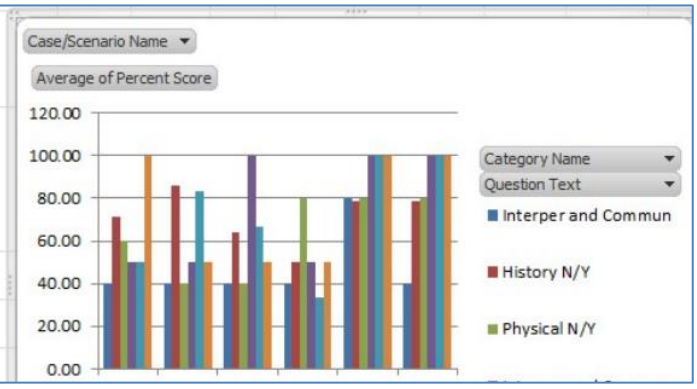
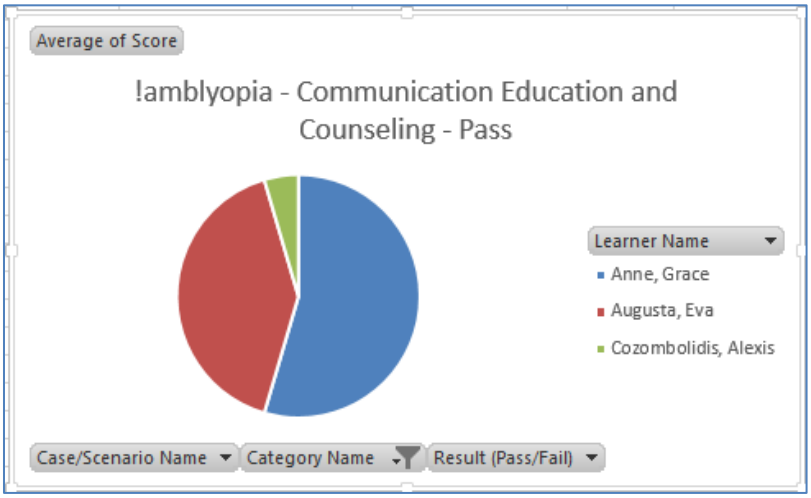
5. Insert > Chart (select a chart design)

6. See the following examples



Column Labels						
Interper and Commu n	History N/Y	Physical N/Y	Interper and Commun Closing	Patient Care	Pt-Centered Skills	Grand Total
40.00	71.43	60.00	50.00	50.00	100.00	61.67





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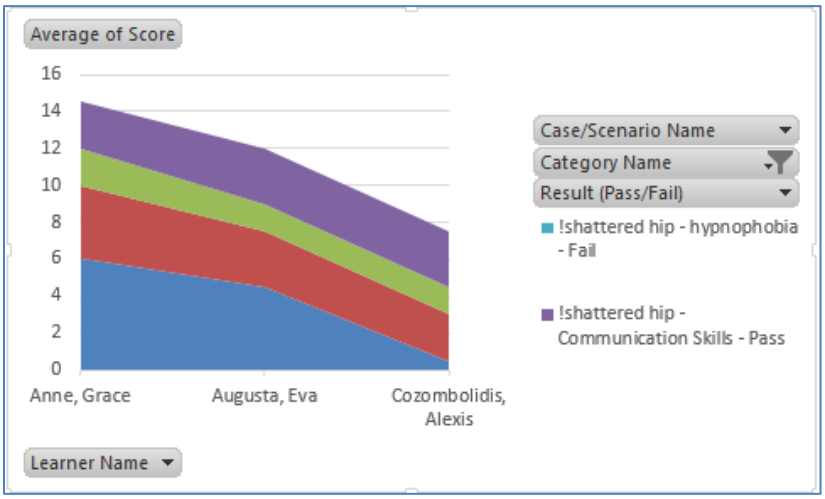

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