

Blackboard Analytics Core

Report Usage SSRS Reports

Version 4.2

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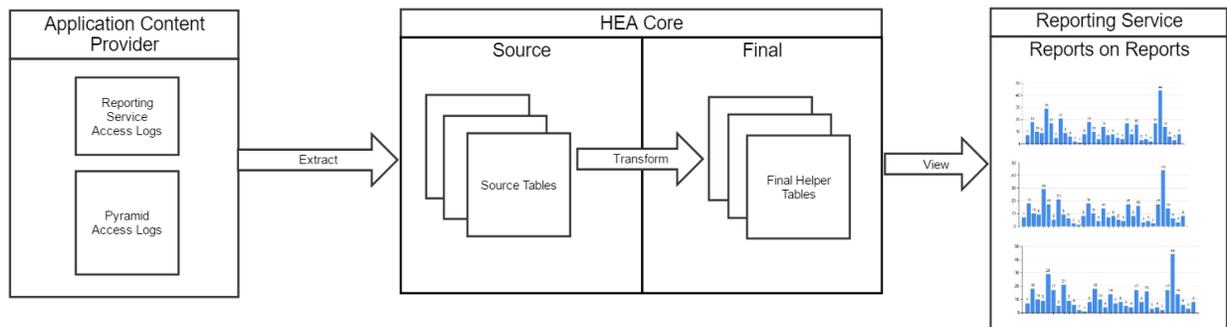
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About Report Usage SSRS Reports

Report Usage is a feature of HEA Core which adds monitoring of usage for the Reporting Services and Pyramid reports. It stores, transforms, and visualizes data which are later visible in the set of Reporting Services reports. The data is aligned per report, user, or course to fulfill various perspective needs.

Data Flow

A source is built from Reporting Services and Pyramid log tables. Data is loaded into internal source tables transformed. The proper process of transformation is dependent upon the HEA.GLOBAL variables described in the Configuration Guide.docx document.



Common Reports

Common reports are part of the HEA Core. This means that the reports will work no matter what Analytics module it is running. The only requirement is to have Reporting Services, Pyramid reports, or both since Report Usage reports use their logs as the source data.

Execution List

The grain of this report is the report execution itself. It is a subset of the information logged automatically each time the report run. This type of report is usually called a detail report. It is also possible to use the hyperlink to get to the report to which the execution belongs to. Please note the hyperlink will work only if the server is the same and the path is still valid. In other words, the target report or folder has not been renamed.

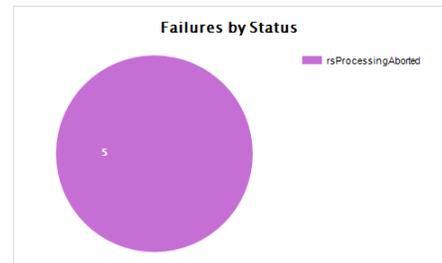
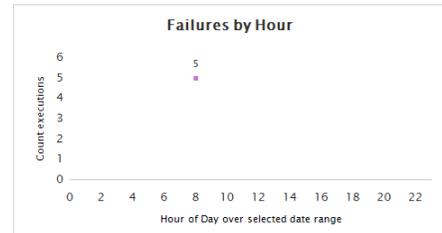
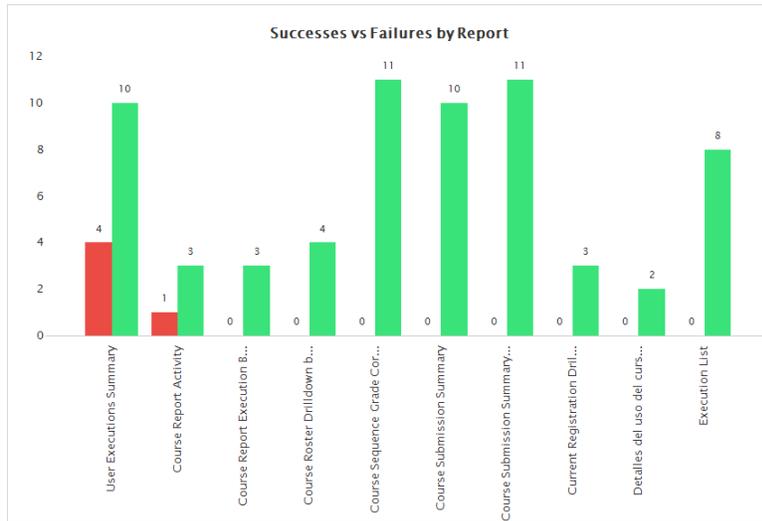
Execution List

REPORT NAME	TIME START	TIME END	ROW COUNT	RENDERING	DURATION [s]			LOAD TIME	STATUS CODE	USER NAME	PROVIDER	REPORT PATH
					PROCESSING	DATA RETRIEVAL						
Activity Matrix	4/30/2017 8:58:33 PM	4/30/2017 8:58:34 PM	521	0.1	0.2	0.2	0.6	rsSuccess	nwall	ReportServer	/Analytics for Learn Demo/Activity Matrix	
Activity Matrix	5/5/2017 11:17:24 AM	5/5/2017 11:17:25 AM	791	0.8	0.2	0.2	1.3	rsSuccess	jsalinas	ReportServer	/Analytics for Learn Demo/Activity Matrix	
Activity Matrix	5/22/2017 10:43:05 AM	5/22/2017 10:43:07 AM	791	1.1	0.2	0.2	1.6	rsSuccess	jsalinas	ReportServer	/Analytics for Learn Demo/Activity Matrix	
Activity Matrix	5/22/2017 12:19:43 PM	5/22/2017 12:19:44 PM	0	0.4	0	0	0.5	rsSuccess	jsalinas	ReportServer	/Analytics for Learn Demo/Activity Matrix	
Activity Matrix	6/20/2017 7:35:30 AM	6/20/2017 7:35:31 AM	521	0.2	0.1	0.2	0.7	rsSuccess	Administrator	ReportServer	/IBBLA_434/Activity Matrix	
Activity Matrix	6/20/2017 7:38:56 AM	6/20/2017 7:38:56 AM	521	0	0	0.2	0.4	rsSuccess	Administrator	ReportServer	/IBBLA_434/Activity Matrix	
Activity Matrix	6/20/2017 7:42:53 AM	6/20/2017 7:42:54 AM	521	0	0.1	0.2	0.5	rsSuccess	Administrator	ReportServer	/Analytics for Learn Demo 433/Activity Matrix	
Activity Matrix	6/20/2017 7:43:26 AM	6/20/2017 7:43:27 AM	521	0.1	0.2	0.3	0.7	rsSuccess	Administrator	ReportServer	/Analytics for Learn Demo/Activity Matrix	

Execution Success Analysis

This report is focused on comparison of failed and successful executions and the progress of failed executions over time (Failures by Hour – meaning hour of day per whole period set in parameters). Failed executions can be caused for example by errors in executed datasets or data sources. In case no such data exists, which is the perfect state, content of this will be mostly empty.

Execution Success Analysis

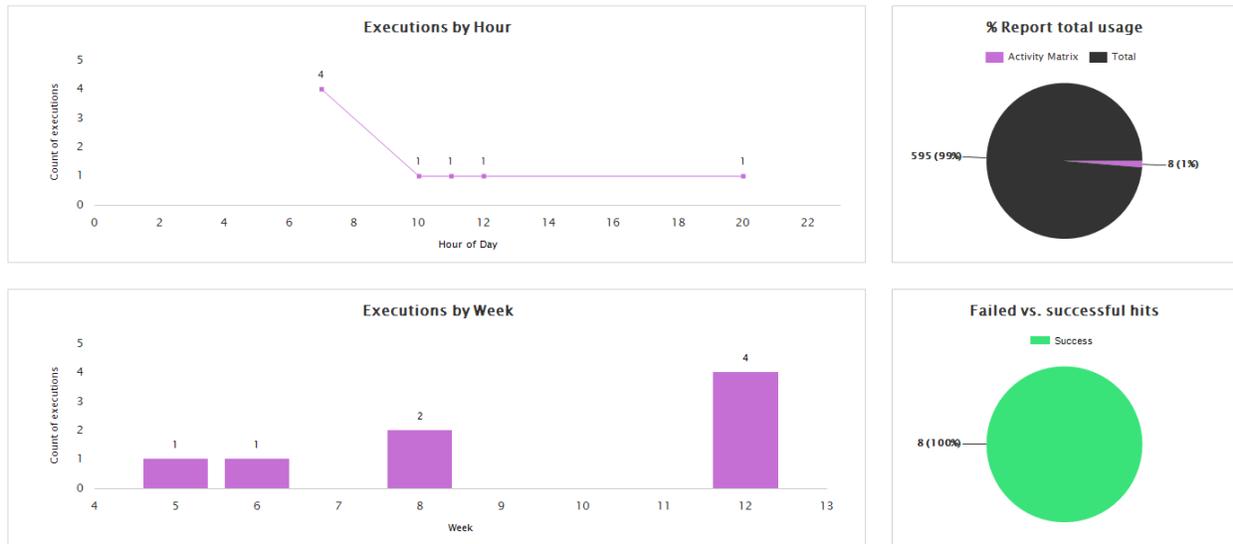


REPORT NAME	STATUS	STATUS CODE	START TIME	DURATION [s]			PROVIDER
				RENDERING	PROCESSING	DATA RETRIEVAL	
User Executions Summary	Failed	rsProcessingAborted	6/22/2017 8:15:51 AM	0	0	0	0.1 ReportServer
User Executions Summary	Failed	rsProcessingAborted	6/22/2017 8:15:03 AM	0	0	0	0 ReportServer
User Executions Summary	Failed	rsProcessingAborted	6/22/2017 8:14:38 AM	0	0	0	0 ReportServer
User Executions Summary	Failed	rsProcessingAborted	6/22/2017 8:14:08 AM	0	0	0	0 ReportServer
Course Report Activity	Failed	rsProcessingAborted	6/22/2017 8:09:01 AM	0	0.1	0	0.2 ReportServer

Executions By Report Analysis

The Executions By Report Analysis contains information about report executions in detail. It also provides an aggregated form. In the graphic below, are the executions by week or by hour and the comparison of the total number of executions of the selected report against the summary of executions of all other reports. This is also in the pie chart where it displays successful vs failed hits (failed executions).

Executions by Report Analysis

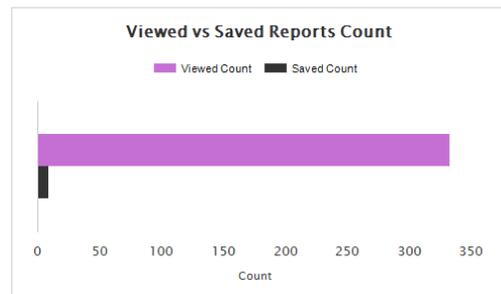
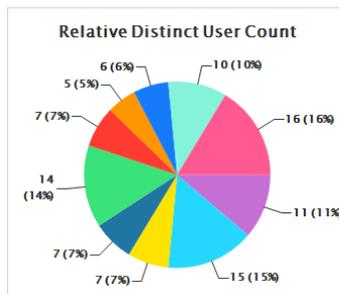
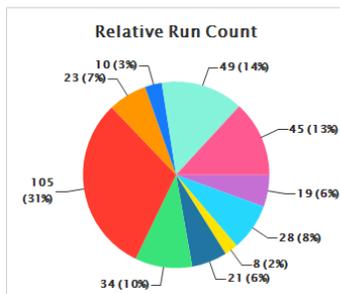
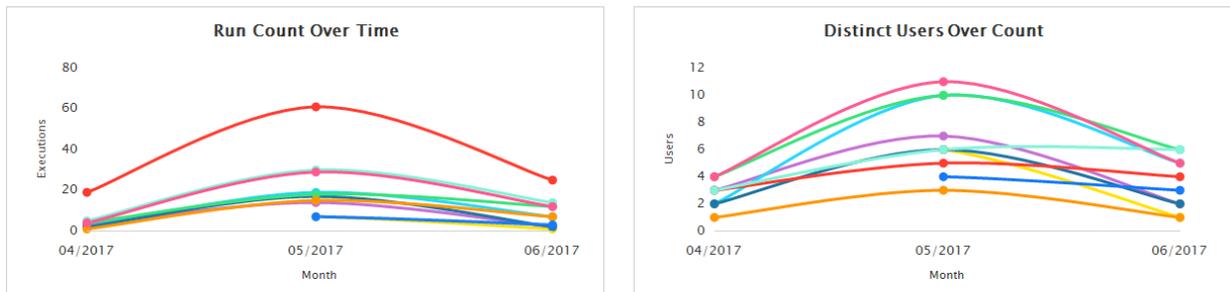


REPORT NAME	TIME START	TIME END	DURATION [s]			LOAD TIME	PROVIDER	REPORT PATH
			RENDERING	PROCESSING	DATA RETRIEVAL			
Activity Matrix	4/30/2017 8:58:33 PM	4/30/2017 8:58:34 PM	0.1	0.2	0.2	0.6	ReportServer	Total of 3 unique report path(s) found
Activity Matrix	5/5/2017 11:17:24 AM	5/5/2017 11:17:25 AM	0.8	0.2	0.2	1.3	ReportServer	Total of 3 unique report path(s) found
Activity Matrix	5/22/2017 10:43:05 AM	5/22/2017 10:43:07 AM	1.1	0.2	0.2	1.6	ReportServer	Total of 3 unique report path(s) found
Activity Matrix	5/22/2017 12:19:43 PM	5/22/2017 12:19:44 PM	0.4	0	0	0.5	ReportServer	Total of 3 unique report path(s) found
Activity Matrix	6/20/2017 7:35:30 AM	6/20/2017 7:35:31 AM	0.2	0.1	0.2	0.7	ReportServer	Total of 3 unique report path(s) found
Activity Matrix	6/20/2017 7:38:56 AM	6/20/2017 7:38:56 AM	0	0	0.2	0.4	ReportServer	Total of 3 unique report path(s) found
Activity Matrix	6/20/2017 7:42:53 AM	6/20/2017 7:42:54 AM	0	0.1	0.2	0.5	ReportServer	Total of 3 unique report path(s) found
Activity Matrix	6/20/2017 7:43:26 AM	6/20/2017 7:43:27 AM	0.1	0.2	0.3	0.7	ReportServer	Total of 3 unique report path(s) found

Report Popularity Dashboard

The following report answers the main question of the popularity of each of the reports. The first two are time based charts displaying the number of executions over time and number of distinct users which executed these reports. Next, the pie charts with a relative run count and a relative distinct user count comparing all reports in the selected set between each other including the percentage portion for each of them. Next to them is a chart showing how many times these reports were viewed and how many times it was saved in whatever format (for example, .xlsx, .pdf, or any other format supported by Reporting Services). Lastly, the table towards the bottom has the same, but more detailed data about the charts above.

Report Popularity Dashboard



REPORT NAME	RUN COUNT	USER COUNT	POPULARITY INDEX	FIRST RUN	LAST RUN	PROVIDER	REPORT PATH
Learn Course Use By College	105	7	77.2	4/25/2017 12:54:06 PM	6/20/2017 3:42:46 PM	ReportServer	Total of 2 unique report path(s) found
Student At A GlanceInt	45	16	76.9	4/24/2017 7:23:01 PM	6/21/2017 3:45:44 PM	ReportServer	Total of 1 unique report path(s) found
Activity MatrixInt	28	15	68.9	4/25/2017 10:36:12 AM	6/21/2017 8:20:25 AM	ReportServer	Total of 1 unique report path(s) found
Learn Course At A GlanceInt	34	14	66	4/24/2017 7:25:22 PM	6/21/2017 4:25:57 PM	ReportServer	Total of 1 unique report path(s) found
Student At A Glance	49	10	55.2	4/25/2017 10:45:05 AM	6/21/2017 10:46:45 AM	ReportServer	Total of 6 unique report path(s) found
Activity and Grade Scatter PlotInt	19	11	50.3	4/24/2017 7:24:00 PM	6/21/2017 8:19:04 AM	ReportServer	Total of 1 unique report path(s) found
Learn Course At A Glance	21	7	34	4/27/2017 3:24:57 PM	6/20/2017 3:43:12 PM	ReportServer	Total of 2 unique report path(s) found
Course Submission SummaryInt	8	7	31.4	5/5/2017 3:52:35 PM	6/21/2017 8:20:30 AM	ReportServer	Total of 1 unique report path(s) found
School Performance Against Goal	10	6	27.4	5/5/2017 1:55:35 PM	6/20/2017 10:49:21 AM	ReportServer	Total of 2 unique report path(s) found
Login Exception Report	23	5	27	4/25/2017 1:02:49 PM	6/21/2017 10:37:41 AM	ReportServer	Total of 4 unique report path(s) found

User Executions Summary

The User Executions Summary shifts the focal point to the users. This shows an aggregated table with data per user which is expandable to a per report basis.

User Executions Summary

USER NAME	REPORT EXECUTIONS COUNT			DISTINCT REPORT COUNT			USER REPORT ACCESS	
	PYRAMID	SSRS	TOTAL	PYRAMID	SSRS	TOTAL	FIRST RUN	LAST RUN
<input type="checkbox"/> User1	0	6	6	0	6	6	5/4/2017 10:21:24 AM	6/21/2017 8:23:08 AM
<input type="checkbox"/> Administrator	0	32	32	0	10	10	6/12/2017 6:25:18 AM	6/20/2017 7:44:22 AM
REPORT	PYRAMID	SSRS	TOTAL	PYRAMID	SSRS	TOTAL	FIRST RUN	LAST RUN
Activity Matrix	0	4	4	0	1	1	6/20/2017 7:35:30 AM	6/20/2017 7:43:27 AM
Course Execution	0	1	1	0	1	1	6/12/2017 6:28:40 AM	6/12/2017 6:28:41 AM
Course Popularity	0	2	2	0	1	1	6/12/2017 6:28:30 AM	6/12/2017 6:29:01 AM
Execution List	0	2	2	0	1	1	6/12/2017 6:25:26 AM	6/12/2017 6:26:10 AM
Execution Success Analysis	0	1	1	0	1	1	6/12/2017 6:25:18 AM	6/12/2017 6:25:23 AM
Executions by Report	0	2	2	0	1	1	6/12/2017 6:25:41 AM	6/12/2017 6:26:08 AM
Instructor At A Glance	0	4	4	0	1	1	6/20/2017 7:35:44 AM	6/20/2017 7:44:22 AM
Report Popularity	0	1	1	0	1	1	6/12/2017 6:25:18 AM	6/12/2017 6:25:24 AM
User Courses Execution	0	13	13	0	1	1	6/12/2017 6:29:09 AM	6/13/2017 2:37:20 AM
User Executions Summary	0	2	2	0	1	1	6/12/2017 6:25:18 AM	6/12/2017 6:26:11 AM
<input type="checkbox"/> User2	0	15	15	0	11	11	5/8/2017 8:27:43 AM	5/30/2017 2:04:03 PM
<input type="checkbox"/> User3	0	1	1	0	1	1	6/8/2017 12:10:30 AM	6/8/2017 12:10:35 AM
<input type="checkbox"/> User4	0	20	20	0	7	7	5/5/2017 4:21:00 PM	5/22/2017 6:04:30 PM
<input type="checkbox"/> User5	0	6	6	0	6	6	5/11/2017 1:47:29 AM	5/11/2017 1:55:19 AM
<input type="checkbox"/> User6	0	50	50	0	24	24	5/5/2017 3:47:16 PM	5/31/2017 3:54:36 PM
<input type="checkbox"/> User7	0	8	8	0	3	3	6/19/2017 2:15:47 PM	6/19/2017 2:24:54 PM
<input type="checkbox"/> User8	0	4	4	0	4	4	6/14/2017 11:32:16 AM	6/14/2017 11:55:54 AM
<input type="checkbox"/> User9	0	7	7	0	5	5	5/5/2017 4:48:03 PM	5/5/2017 4:52:12 PM
<input type="checkbox"/> User10	0	33	33	0	8	8	5/5/2017 11:11:21 AM	6/13/2017 2:43:21 PM
<input type="checkbox"/> User11	0	10	10	0	7	7	6/20/2017 3:36:37 PM	6/20/2017 3:45:29 PM
<input type="checkbox"/> User12	0	13	13	0	6	6	4/25/2017 12:58:10 PM	6/20/2017 10:49:41 AM
<input type="checkbox"/> User13	0	10	10	0	7	7	5/15/2017 9:18:47 AM	6/5/2017 12:01:15 PM
<input type="checkbox"/> User14	0	8	8	0	6	6	5/18/2017 10:02:33 AM	6/12/2017 1:54:25 PM
<input type="checkbox"/> User15	0	110	110	0	18	18	4/25/2017 10:34:26 AM	5/24/2017 3:35:30 PM
<input type="checkbox"/> User16	0	51	51	0	16	16	4/30/2017 8:09:28 PM	6/20/2017 5:42:11 AM
<input type="checkbox"/> User17	0	123	123	0	19	19	4/26/2017 9:58:44 AM	6/15/2017 3:03:40 PM
<input type="checkbox"/> User18	0	42	42	0	9	9	4/25/2017 8:27:25 AM	6/21/2017 4:42:47 PM
<input type="checkbox"/> User19	0	36	36	0	7	7	6/12/2017 9:01:43 AM	6/18/2017 10:52:05 PM
<input type="checkbox"/> User20	0	3	3	0	3	3	4/24/2017 7:23:01 PM	4/24/2017 7:25:34 PM
<input type="checkbox"/> User21	0	11	11	0	5	5	6/7/2017 5:45:52 AM	6/20/2017 8:31:00 AM
<input type="checkbox"/> User22	0	4	4	0	3	3	5/24/2017 4:15:52 AM	6/8/2017 12:36:11 AM

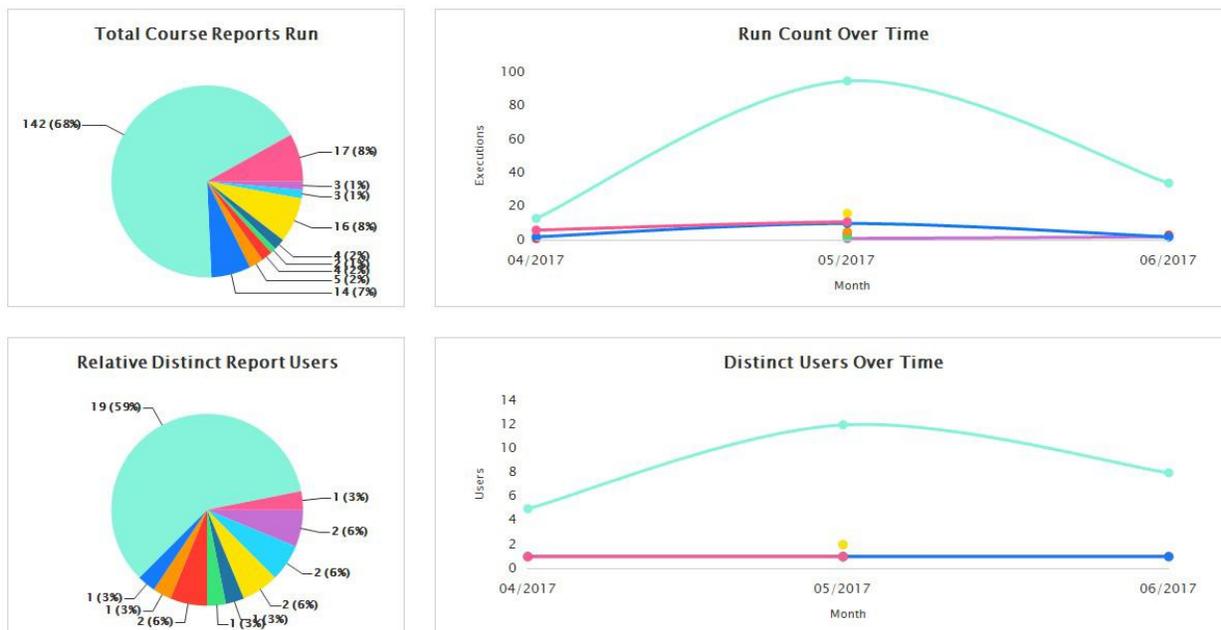
A4L Extension Reports

A4L Extension Reports are based off of course data and requires more than just the HEA Core, more specifically, the A4L module. Without A4L, it will most likely work on a functional level, but will not show any relevant data.

Course Report Activity

At the top left, there is a pie chart with information about how many times the courses have been searched. This information is based on A4L report executions where the user selects the specific course as a parameter and view the report. Next to the pie chart is same information displayed over time. The charts on the next row answers the question of how many distinct users looked for these courses. Similar to the above, the chart next to it displays the same information over time. The table at the bottom shows the same information in text format.

Course Report Activity



COURSE	RUN COUNT	USER COUNT	FIRST RUN	LAST RUN
Course1	142	19	4/24/2017 7:23:01 PM	6/21/2017 4:25:57 PM
Course2	17	1	4/25/2017 1:18:25 PM	5/24/2017 3:33:25 PM
Course3	16	2	5/5/2017 11:11:21 AM	5/22/2017 12:20:43 PM
Course4	14	1	4/27/2017 3:24:57 PM	6/15/2017 10:49:54 AM
Course5	5	1	5/24/2017 10:09:30 AM	5/24/2017 11:30:56 AM
Course6	4	1	5/17/2017 2:50:15 AM	5/17/2017 3:43:01 AM
Course7	4	2	4/30/2017 8:58:33 PM	6/20/2017 7:43:26 AM
Course8	3	2	5/8/2017 8:27:43 AM	6/13/2017 2:09:52 AM
Course9	3	2	5/22/2017 11:50:07 AM	5/31/2017 1:13:05 PM
Course10	2	1	5/22/2017 10:43:57 AM	5/22/2017 11:39:15 AM

Course Report Execution By User

The table below provides information about courses which the selected user looked for in A4L reports. Again, the data is based on executions of A4L reports where the specific course in parameter has been selected. Records can be further expanded to list the reports included in this calculation.

Course Report Execution By User

USER NAME	COURSE	EXECUTIONS					FIRST RUN	LAST RUN
		INTEGRATED	NON INTEGRATED	VIEWED	SAVED	TOTAL		
<input type="checkbox"/> Administrator	Course1	0	1	1	0	1	6/20/2017 7:42:53 AM	6/20/2017 7:42:53 AM
<input type="checkbox"/> Administrator	Course2	0	3	3	0	3	6/20/2017 7:35:30 AM	6/20/2017 7:43:26 AM
	REPORT	INTEGRATED	NON INTEGRATED	VIEWED	SAVED	TOTAL	FIRST RUN	LAST RUN
	Activity Matrix	0	3	3	0	3	6/20/2017 7:35:30 AM	6/20/2017 7:43:26 AM
<input type="checkbox"/> Administrator	Course3	0	1	1	0	1	6/20/2017 7:44:06 AM	6/20/2017 7:44:06 AM
<input type="checkbox"/> Administrator	Course4	0	1	1	0	1	6/20/2017 7:44:06 AM	6/20/2017 7:44:06 AM
<input type="checkbox"/> Administrator	Course5	0	1	1	0	1	6/20/2017 7:44:06 AM	6/20/2017 7:44:06 AM
<input type="checkbox"/> Administrator	Course6	0	1	1	0	1	6/20/2017 7:44:06 AM	6/20/2017 7:44:06 AM
<input type="checkbox"/> Administrator	Course7	0	1	1	0	1	6/20/2017 7:44:06 AM	6/20/2017 7:44:06 AM
<input type="checkbox"/> Administrator	Course8	0	1	1	0	1	6/20/2017 7:44:06 AM	6/20/2017 7:44:06 AM
<input type="checkbox"/> Administrator	Course9	0	2	2	0	2	6/20/2017 7:35:44 AM	6/20/2017 7:41:09 AM
<input type="checkbox"/> Administrator	Course10	0	1	1	0	1	6/20/2017 7:44:21 AM	6/20/2017 7:44:21 AM
<input type="checkbox"/> Administrator	Course11	0	2	2	0	2	6/20/2017 7:35:44 AM	6/20/2017 7:41:09 AM
<input type="checkbox"/> Administrator	Course12	0	2	2	0	2	6/13/2017 1:46:45 AM	6/13/2017 2:09:52 AM

Report Execution By Course

This report provides information about number of course executions from each particular report vs the total executions from all other reports. Besides the number of executions in the selected period, it also display this information for the previous period which allows us to compare the past and the present.

Report Execution By Course

COURSE	EXECUTIONS	PREVIOUS PERIOD EXECUTIONS	OTHER REPORT EXECUTIONS	CURRENT REPORT EXECUTIONS OF TOTAL
<input type="checkbox"/> Course1	3	0	0	100%
USER	EXECUTIONS	PREVIOUS PERIOD EXECUTIONS	OTHER REPORT EXECUTIONS	CURRENT REPORT EXECUTIONS OF TOTAL
User1	3	0	0	100%
<input type="checkbox"/> Course2	1	0	0	100%
<input type="checkbox"/> Course3	4	0	0	100%