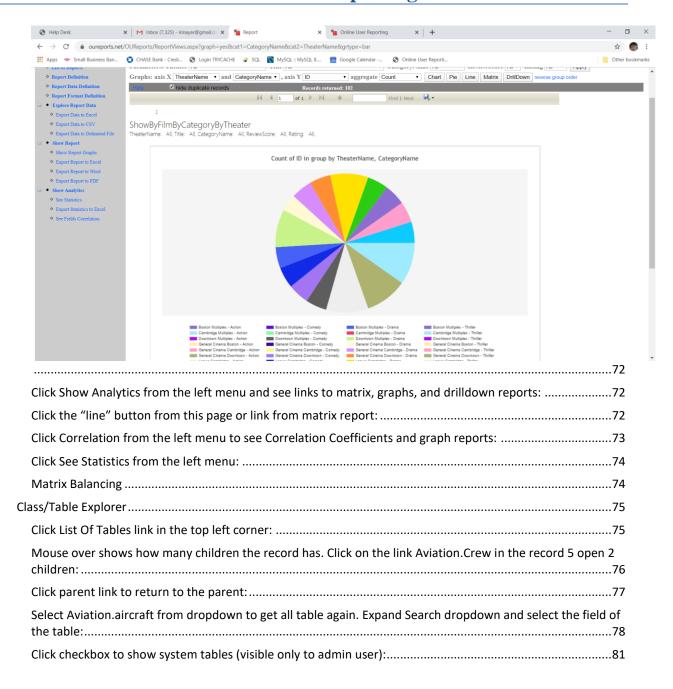
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ONLINE USER REPORTING

INTRODUCTION

Half of the hospitals in the United States use a local workstation system (like Midas+ Report Track Reports) to create customized reports for Care Management, Case Management, Provider Credentialing, Lab data, etc... This represents a management load, requires specialized stuff for workstations maintenance, and complicates the generation of comparable reports at at different phases of the patient care pipeline.

It is time to put the Internet to work on providing a modern service to make the creation and processing of reports convenient, simple, and accessible for end users and administrators alike.

Our Online User Reporting system will enable end users to create their own customized reports, transparently, based on data in existing databases hosted by client organizations. It makes the creation of reports a fast and simple task that can be done by technical personnel after minimal training. It can serve any kind of organization and business with data in a SQL (or non-SQL) databases.

It could be used in wide range of organizations, such as medical hospitals, county and government offices, industrial headquarters, etc... Any organization with a database can use it for getting fast highly informational and statistical reports.

The connection from our system to the customer's database can be done using a single connection string (if database server is accessible from the Internet) or by establishing an SSH tunnel from our cloud server to the customer's local database server, or by deploying our agent software on the customer's local Web server with connection to the customer's Database server.

Our system utilizes the restricted access to customer's database with only **reading** permissions. We never install anything or write data in customer's database.

TECHNOLOGY

Our innovation lies in the transparent and modular generation of reports from arbitrary source data. Specifically, we have created:

- 1. An original design of a structure of OUR special tables and classes (in MySql, or SQL Server, or Intersystems Cache databases) to keep all needed information of data query design, report design, data and report format, and statistical data calculations,
- 2. A data module to access and process the data from a database as needed for the report.
- 3. A report generation module to access report design information stored in tables/classes in database and process of RDL or Crystal report with possibility of exporting it into Excel, Word, or PDF.
- 4. A web interface for simple user access and creation of reports including the automatic data mining and design of SSRS (RDL) reports or importing of existing RDL and possible Crystal Reports definitions from legacy tools. The creation of the report is divided on simple tasks served by separate web pages simplifying the process for the end user.
- 5. A simple interface that utilized data-mined information to abstract the inherent complexity of report design, enabling minimally trained staff to make meaningful reports.
- 6. A module allowing administrators to define users with granular levels of access to various data (i.e., full versus anonymized versus aggregated), allowing careful access control tracking from the data model throw the report generation to carefully comply with data control policies and regulations.

COMPETITION

Google Reporting – requires database accessible from the Internet.

Midas+ ReporTrack Reports – local VB.NET application with connection to local Cache database

Birst.com – requires decomposition of relative data and composition to their tables, restricted to about 10000 records.

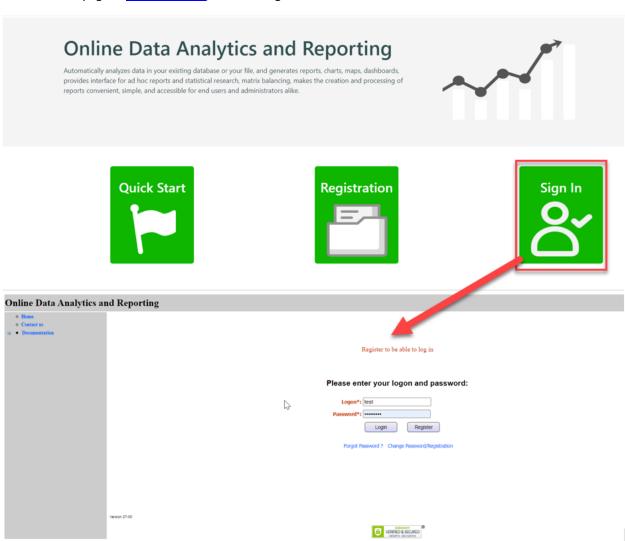
Easy.Report – connects to database by connection string to Internet interface, doesn't serve Cache database, exports only to Excel.

LANDING PAGE

Landing Page Document

SIGN IN

From the start page at <u>oureports.com</u>, click the "Sign In" button.



DEMO

Complete functionality for <u>Online User Reporting</u> is available using the Demo database. The screen shots in this document are Chrome version 114.0.5735.90.

There are two ways to start demo:

FROM START PAGE

From the start page at <u>oureports.com</u>, click the "Sandbox" button.

Online Data Analytics and Reporting

Automatically analyzes data in your existing database or your file, and generates reports, charts, maps, dashboards, provides interface for ad hoc reports and statistical research, matrix balancing, makes the creation and processing of reports convenient, simple, and accessible for end users and administrators alike.









How to play in Sandbox



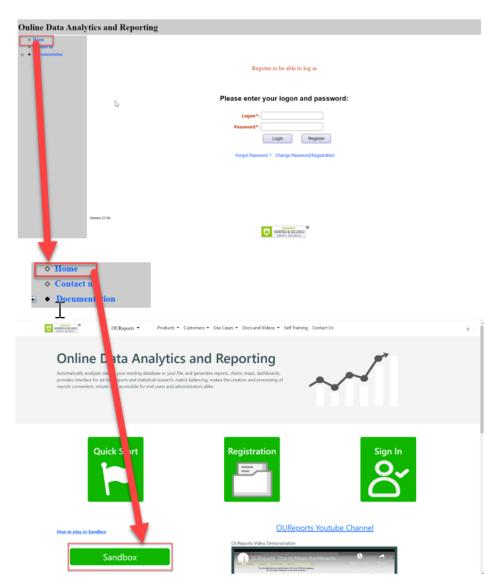
OUReports Youtube Channel

OUReports Video Demonstration



FROM SIGN IN PAGE

From the sign in page, click "Home" from the left menu bar. From the Home Page, click the "Sandbox" button.



A list of reports in our MySQL DEMO database CINEMA will be displayed.

LIST OF REPORTS



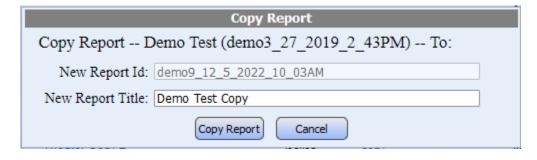
Some reports are locked and a demo user cannot edit them. These reports can be used as templates and copied for editing. Reports created by other demo users are open for editing, copying or deleting. Demo users can also create new reports.

SHOWING A REPORT

To show a report, click the report title link in the "Show Report" column



A dialog like the following is then displayed:



Enter a unique Report Title and click the "Copy Report" button. A message like the following will then be displayed:



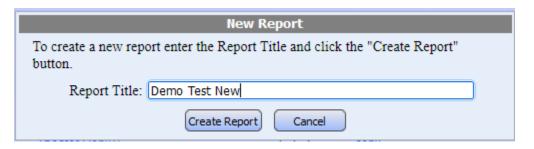
Click the "Return To List" button to return to the report list or the "Edit Report" button to edit the copied report.

CREATING A REPORT

Click the "New Report" link above the report list.



A dialog like the following is then displayed:



Enter a unique Report Title and click the "Create Report" button. The Report Data Definition page then displays.

DELETING A REPORT

Click the "delete" link for the report you wish to delete.



A message box like the following is then displayed:



Click the "Yes" button to delete the report or the "No" button to ignore the delete request. The report list is redisplayed. If the "Yes" button has been pressed, the corresponding report is no longer in the list.

EDITING A REPORT

Click the "edit" link for the report you wish to edit.

demo9_7_13_2019_4_40PM

Demo Test

edit

сору

delete

2030-03-22 03:48:00

The <u>Report Definition</u> page for that report then displays.

REPORT DEFINITION

ADVANCED USER

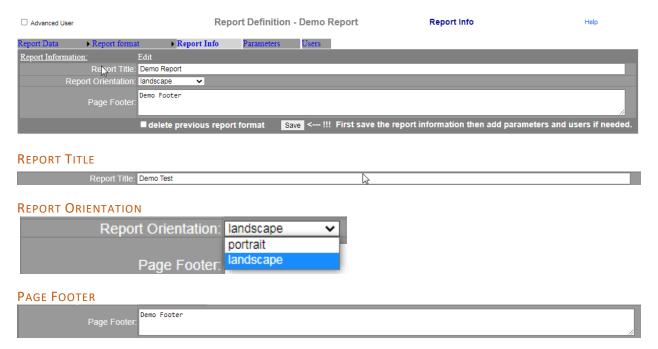
Checking the "Advanced User" checkbox displays advanced report information and allows the user to modify advanced report options if desired. The "Advanced User" checkbox is only available for users that have Admin privileges and above.

REPORT INFO

The Report Info view displays upon <u>editing a report</u> from the <u>report list</u>, or clicking on the "Report Definition" option from the left options menu, or clicking on the "Report Info" tab.

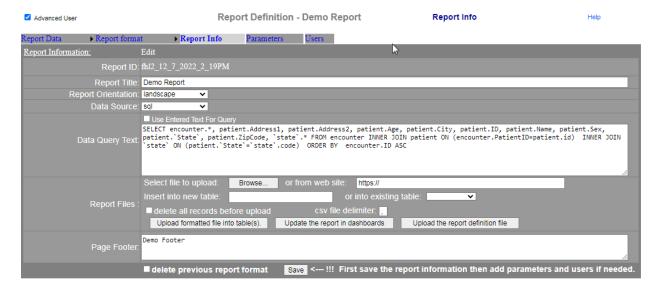
NORMAL USER VIEW

A normal user can modify the Report Title, Report Orientation, and Page Footer.



ADVANCED USER VIEW

An advanced user can also modify the <u>data source</u>, <u>query text</u>, and modify or create tables from various <u>report files</u>.



REPORT ID

Report ID: fhl2_12_7_2022_2_19PM

This is a display only field containing the internally created report id for the report.

Data Source



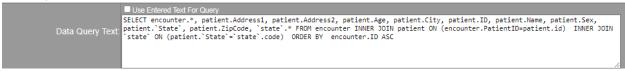
sql – Data is obtained by an SQL query.

sp – Data is obtained by a stored procedure.

Using a stored procedure as a data source requires that a stored procedure be created in the client database.

Creating a report based on a stored procedure is not covered in this document.

DATA QUERY TEXT



Usually this displays the SQL query produced from defining the report using Report Definition, Report Data Definition, and/or Report Format Definition. However, you can enter or change an SQL query here if desired. Check the Use Entered Text For Query check box before entering the query. The minimum query is "SELECT * FROM [your table]".

Click the "Save" button to create the report. Remember that if you submit any changes made through the report definition functions, this query may be replaced.

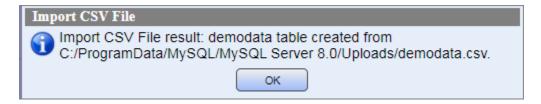
REPORT FILES

	Select file to upload: Browse.	or from web site: https://	
Report Files :	Insert into new table:	or into existing table:	
	delete all records before uploa	d csv file delimiter:	
	Upload formatted file into table(s).	Update the report in dashboards Upload the report definition file	

The Report Files section allows an advanced user to append to or create tables from a formatted file (CSV, XML, JSON), to update report dashboards, or to create a report using an externally modified Report Definition File (RDL).

UPLOADING A FORMATTED FILE INTO TABLE(S)

- Select a file from the client computer by pressing the Browse... button or by entering a web site address in the web site text box.
- Enter a new table name in the new table text box or choose an existing table name from the existing table drop down.
- If using an existing table, checking the delete all records before upload check box clears the table before the data in the file is added. Otherwise, the file's data is appended to the table. NOTE: If data is being uploaded to an existing table, the field names defined in the file must be identical to the fields defined in the table.
- If creating or updating a table from a delimited file, the delimiter separating the data can be indicated by entering it in the "csv file delimiter" text box. This value defaults to comma (",").
- Press the Upload formatted file into table(s). button to upload the file to a new table or to append the file's data to an existing table.
- If the upload is successful, a message like the following displays:



The table created or modified above will now be available in the table list in Report Data Definition.

UPDATING THE REPORT DASHBOARDS

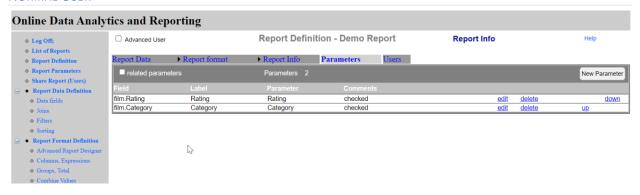
UPLOADING THE REPORT DEFINITION FILE



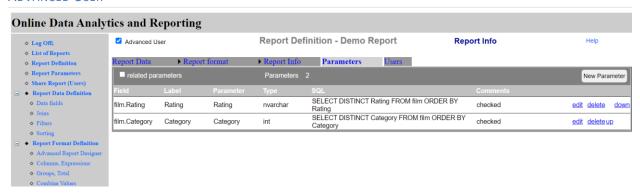
PARAMETERS

Parameters allow users to interactively filter report data for one or more values when viewing report data in Explore Report Data or Show Report. A parameter is not like the filter that can be defined in Report Data Definition because it can be changed by the user by selecting values from a dropdown. Click "Report Parameters" from the left options menu or "Parameters" tab.

NORMAL USER



ADVANCED USER



RELATED PARAMETERS



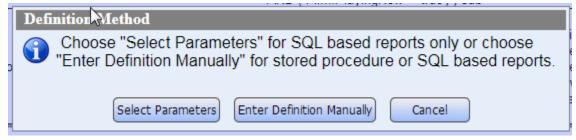
Check the "related parameters" checkbox if you wish the report to refresh as you choose each parameter at report time. As each parameter is chosen, the other parameter lists are repopulated based on what's chosen.

If it's not checked, you will have to click the "Apply" button before the report is refreshed using the chosen parameters. Other parameter lists aren't changed after the parameters have been applied. If you have more than one parameter, not checking "related parameters" might be faster because you can change more than one parameter without having to wait for the report to refresh each time.

ADDING A PARAMETER

Click the "New Parameter" button.

ADVANCED USER



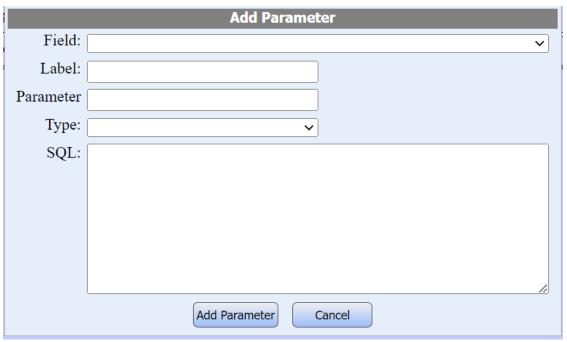
An advanced user can choose one of two ways to define a new parameter:

Clicking on the "Select Parameters" button will display the following dialog:



Select the fields to be parameters and click the "Submit Parameters" button. This is the only way to define more than one parameter at the same time.

Clicking on the "Enter Definition Manually" button will display the following dialog:



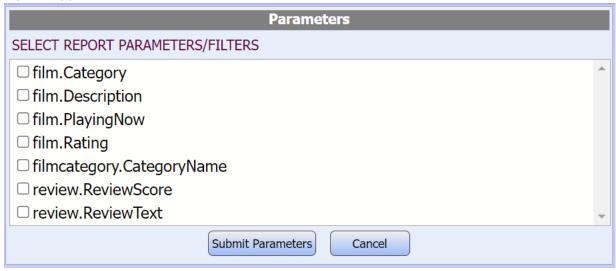
Only one parameter at a time can be defined with this method, but details can be modified here that are not available to the selection method.

Select a field from the "Field:" drop down.



When the field is chosen, all other entries are defaulted. They can be modified, but most of the time only "Label:" may need to be changed. Unless you are knowledgeable in SQL, it's recommended that you not modify the query in "SQL:" Press the "Add Parameter" button to add the parameter.

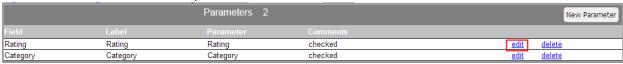
NORMAL USER



This is the only way available to add parameters for a normal user. Details such as the drop-down label can be edited using the edit option detailed below. Select the fields to be parameters and click the "Submit Parameters" button.

EDITING A PARAMETER

Click on the field's "edit" link in the parameter's row:



ADVANCED USER

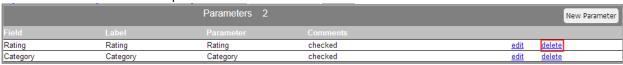


NORMAL USER

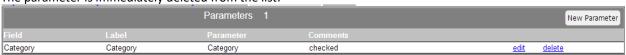


DELETING A PARAMETER

Click on the "delete" link in the parameter's row:



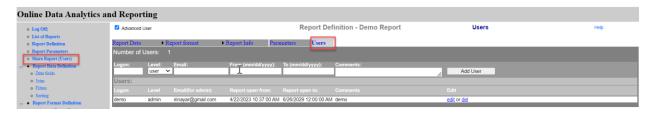
The parameter is immediately deleted from the list:



USERS

The users view shows users who have access to the report. The creator of the report can edit, copy or delete the report. In addition, he can define users who can share the report and define the user's access level.

Click "Share Report (Users)" option from the left options menu or the "Users" tab.



ADDING A USER

Enter data in the new user entry row and click the "Add User" button.



The user is then added to the list.



In this case, "test" will have "user" access and can view the report and its data but cannot create a new report or edit, delete, or copy the report.

If "test" is not a registered user, "test" is registered in the database with the password set as the email address. An email is then sent to the user's email address providing logon information like the following:

User has been created by admin fhl. User logon: test, initial password is your email. You should change your password when first time you logged in.

After the email is entered as the password the first time, the change password page is displayed, and the user must change it before continuing:



EDITING A USER

Click the "edit" link to the right of the user to edit.

Users:						
Logon						Edit
demo	admin	irinayar@gmail.com	1/14/2019 10:33:00 AM	3/6/2020 12:00:00 AM	demo	edit or del
Rosa	user	rosa@cox.net	8/27/2019 12:00:00 AM	3/6/2020 12:00:00 AM	Testing User	edit or del

The fields in that line become editable. Enter the changes and click the "Submit User" button.



DELETING A USER

Click the "del" link to the right of the user to delete.

Users:						
Logon	Level	Email(for admin)	Report open from:	Report open to:	Comments	Edit
demo	admin	irinayar@gmail.com	1/14/2019 10:33:00 AM	3/6/2020 12:00:00 AM	demo	edit or del
Rosa	user	rosa@cox.net	8/27/2019 12:00:00 AM	3/6/2020 12:00:00 AM	Testing User	edit or del

The user is deleted and the list redisplayed.

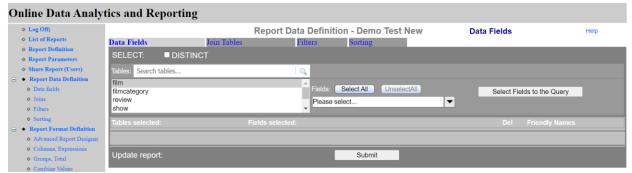
Users:						
Logon	Level	Email(for admin)	Report open from:	Report open to:	Comments	Edit
demo	admin	irinayar@gmail.com	1/14/2019 10:33:00 AM	3/6/2020 12:00:00 AM	demo	edit or del

REPORT DATA DEFINITION

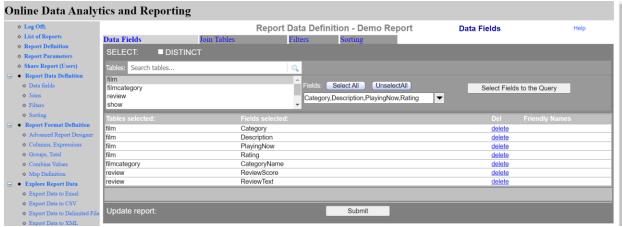
DATA FIELDS

The Data Fields view will be shown when a <u>report is created</u>, or by clicking Report Data>Data Fields option from the menu in <u>Report Definition</u>, or by clicking the Report Data Definition>Data Fields option from the left option menu.

This is an example of the view from a new report:

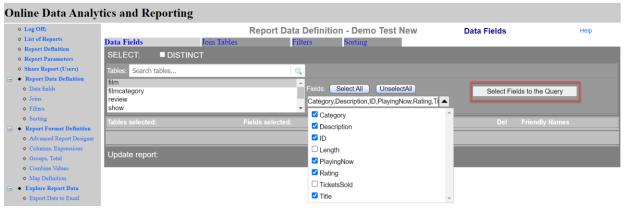


This is a view from an existing report:

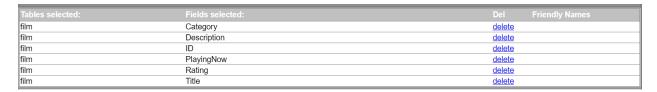


ADDING A DATA FIELD

Select a table from the "Tables:" list. Select fields from the "Fields" drop down list or click the "Select All" textbox to select all fields from the selected table. Click the "Select Fields to the Query" button.

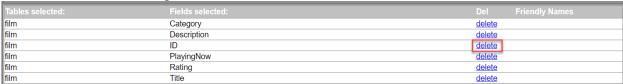


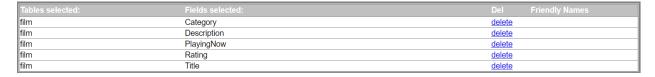
The fields will be added to the Fields list and into the data query:



DELETING A DATA FIELD

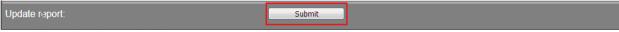
Click the "delete" link to the right of the data field to be deleted in Fields list.





UPDATING DATA FIELDS

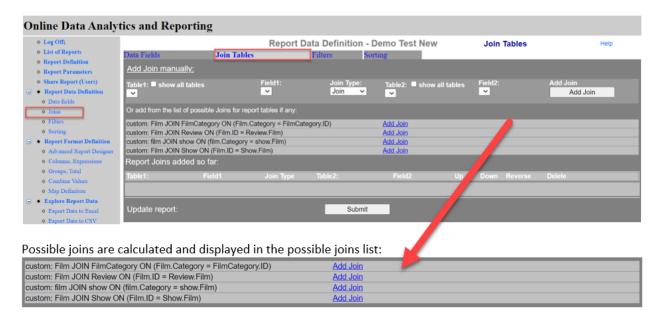
Click the "Submit" button to update the report's definition files. If the update is successful, you should get the "Report Format has been updated" message.



Report Format has been updated.

JOIN TABLES

Click "Joins" from the left option menu or the "Join Tables" tab.



ADDING A JOIN

To add a join, either define a join manually or choose a join from the possible joins list. The joins will then be displayed in the added joins list.

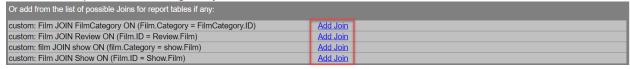
ADD MANUALLY

Choose join data from the drop downs and click the "Add Join" button.



ADD FROM POSSIBLE JOINS LIST

Click the "add join" link to the right of join to add.



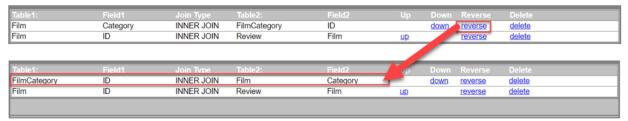
ADDED JOINS LIST

Added joins will be displayed in added joins list.

Report Joins added	so far:							
Table1:								
Film	Category	INNER JOIN	FilmCategory	ID		down	<u>reverse</u>	<u>delete</u>
Film	ID	INNER JOIN	Review	Film	<u>up</u>		<u>reverse</u>	<u>delete</u>

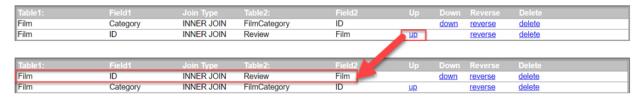
REVERSING A JOIN

Click the "reverse" link to the right of the join in the Added Joins list.



MOVING THE POSITION OF A JOIN

Click the "up" or "down" link to the right of the join in the Added Joins list to move the join in the desired direction.



DELETING A JOIN

Click the "delete" link to the right of the join to delete in the Added Joins list.

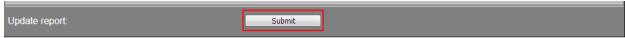


EDITING A JOIN

There is no direct way to edit a join. If a join requires editing it will have to be deleted and then re-added incorporating the changes.

UPDATING THE JOINS

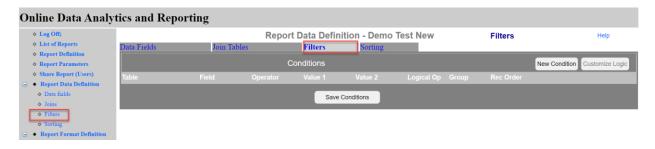
To update the joins to the report, press the "Submit" button.



Report Format has been updated.

FILTERS

To add conditions to the data query open the Filters view by clicking on the "Filters" option in the left options menu or the "Filters" tab in <u>Report Data Definition</u> or the "Filters" option from the Report Data menu in <u>Report Definition</u>.

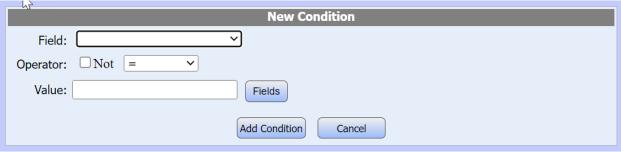


ADDING A CONDITION

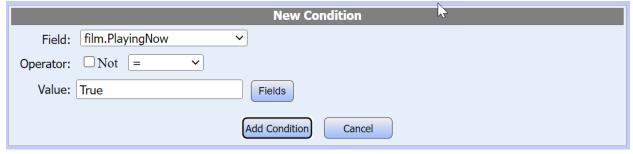
To add a condition, click the "New Condition" button.



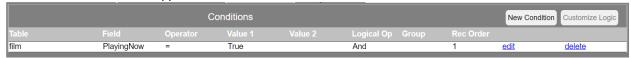
The "New Condition" dialog then displays:



Enter condition data and click "Add Condition".

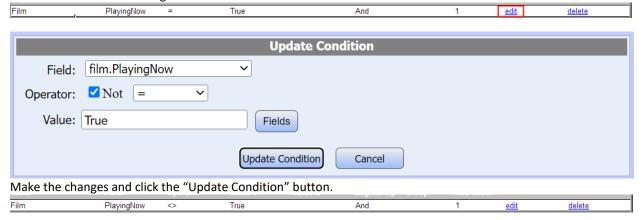


The defined condition then appears in the "Conditions" list.



EDITING A CONDITION

Click the "edit" link to the right of the condition to be edited in Conditions list.



DELETING A CONDITION

Click the "delete" link to the right of the condition to be deleted in Conditions list.

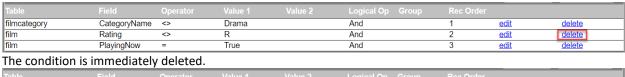
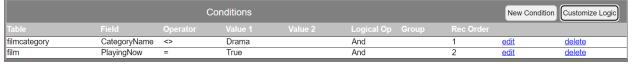


Table	Field	Operator	Value 1	Value 2	Logical Op Group	Rec Order		
filmcategory	CategoryName	<>	Drama		And	1	<u>edit</u>	<u>delete</u>
film	PlayingNow	=	True		And	2	<u>edit</u>	<u>delete</u>

CUSTOMIZING LOGIC

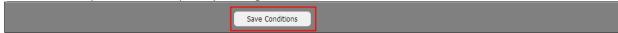
If more than one condition is defined, the "Customize Logic" button becomes enabled.



See this <u>Customizing Logic Document</u> for instructions.

UPDATING FILTERS

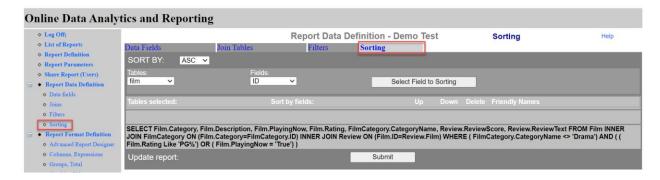
Conditions are updated to the report by clicking the "Save Conditions" button.



Report Format has been updated.

SORTING

To add sorts to the data query open the Sorts view by clicking on the "Sorting" option in the left options menu or the "Sorting" tab in Report Data Definition or the "Sorting" option from the Report Data menu in Report Data Definition.



ADDING A SORT

Choose sort direction, if necessary, from the "SORT BY:" dropdown:



Select table and field and click "Select Field to Sorting":



CHANGING SORT POSITION

If there more than one sort is defined, the sort position is changed by pressing the "up" or "down" link to the right of the sort in the list.



Tables selected:	Sort by fields:	Up	Down	Delete Friendly Names
filmcategory	CategoryName		down	delete
film	Rating	<u>up</u>		delete

DELETING A SORT

Click the "delete" link to the right of the sort you wish to delete.



Tables selected:	Sort by fields:	Up Down Delete Friendly Names
filmcategory	CategoryName	<u>delete</u>

EDITING A SORT

Editing a sort directly is not possible. The sort will have to be deleted and then re-added with the changes.

UPDATING THE SORTS

To update the sorts to the report, click the "Submit" button.

Update report: Submit

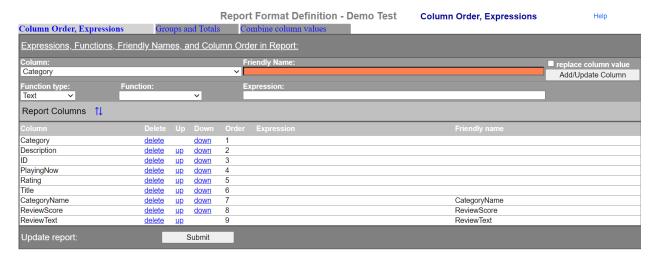
Report Format has been updated.

REPORT FORMAT DEFINITION

With this page you can modify the format of the report itself using data defined in Report Data Definition.

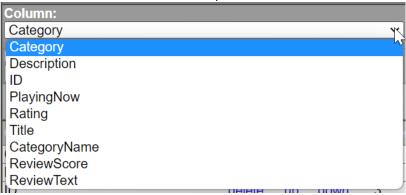
COLUMNS ORDER, EXPRESSIONS

You can select a subset of columns for the report from the list of defined data fields, define friendly names for them, define format expressions for them, and put them in an order of your choice:



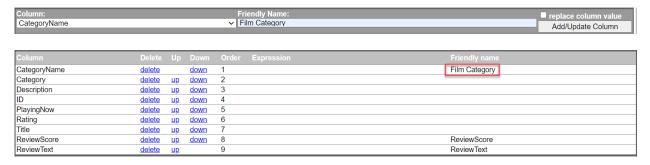
ADDING A REPORT COLUMN

Select a column from the "Column:" drop down:



FRIENDLY NAME

A name can be assigned to a report field using the "Friendly Name:" textbox:



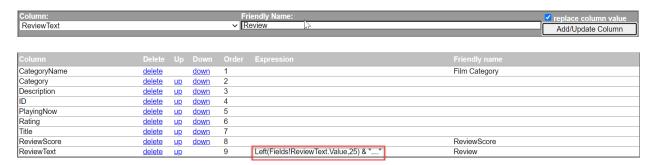
DEFINING AN EXPRESSION

A formatting expression can be assigned to a column by choosing a function type and function and modifying the expression:



ADD THE COLUMN

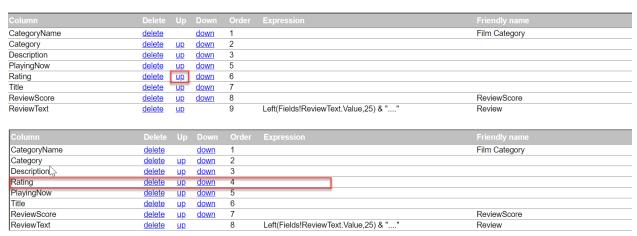
If you are adding a new column, you can ignore the "replace column value" checkbox and press the "Add/Update Column" button.



CHANGING THE ORDER OF A REPORT COLUMN

UP OR DOWN LINKS

Click the "up" or "down" link to the right of the column you wish to move.



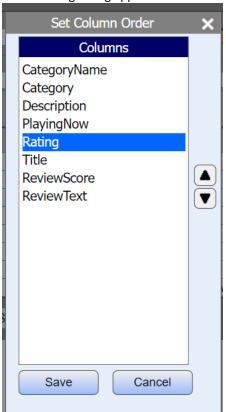
SET COLUMN ORDER DIALOG

Setting the field order of multiple columns at once can be accomplished using the Set Column Order Dialog:

Press the Set Column Order Button:



The following dialog appears:



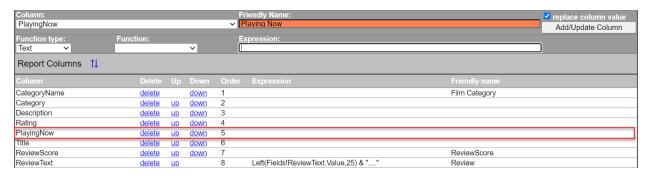
Column order can be set in one of two ways:

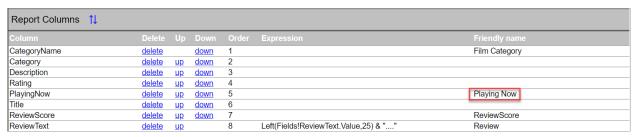
- 1. By dragging and dropping a column item to the desired position. Dropping an item on top of the last item will put the dropped item at the end of the list. Dropping an item on top of any other item will place that item before the target item.
- 2. By selecting an item and moving it up or down in the list by pressing the or button.

To save the column order settings press the Save button.

EDITING A REPORT COLUMN

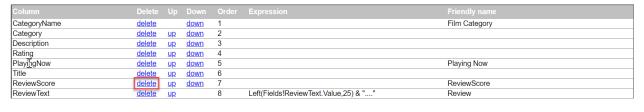
Choose the column to edit from the "Column:" drop down and change the data you wish. If you want to replace it, check the "replace column value" checkbox and then click the "Add/Update Column" button. If you don't check this checkbox, a new column will be created. This can cause errors or result in duplicate data at runtime.

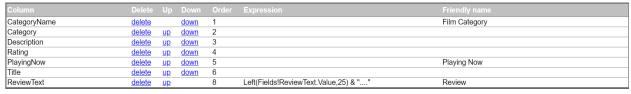




DELETING A REPORT COLUMN

Click the "delete" link to the right of the column you wish to delete.





UPDATING THE REPORT

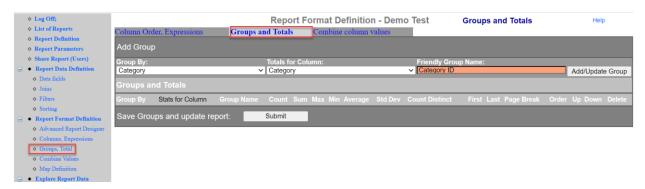
To update the Columns to the report click the "Submit" button.

Update report: Submit

Report Format has been updated.

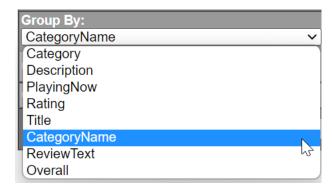
GROUPS AND TOTALS

Click the "Groups, Total" option from left options menu, or click the "Groups and Totals" tab in Report Format Definition or click "Groups and Totals" from the "Report format" menu in Report Definition.

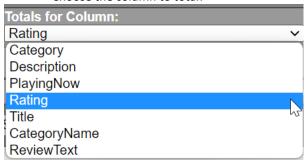


ADDING A GROUP

• Choose a column to group by:



• Choose the column to total:



Enter a friendly group name if desired and click the "Add/Update Group" button:



Note: If the field to total is text, the only statistics available are Count, Count Distinct, First, and Last

Here is an example of the report with this grouping applied:

Rating By Category N	lame Action					
Film Category	<u>Category</u>	<u>Description</u>	Rating	Playing Now	<u>Title</u>	Review
Action	·	A whirlwind tale of one man's search for truth	PG	True	The Santa Fe Conspiracy	Keanu Ulmenson (Patrick R
Action		A humerous farce of scandal amid the search for self identity	PG-1	True	An Invisible Attitude	Scandinavian director Joh
Subtotals of Rating for:	: Rating By Category	Name Action				
Count:				-		
2				-		

EDITING A GROUP

CHANGING THE FRIENDLY GROUP NAME

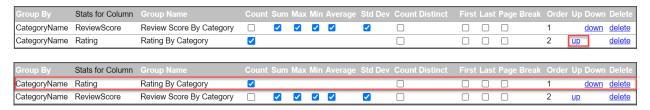
Choose the existing grouped and totals columns from their respective drop downs. Change the "Friendly Group Name" and click the "Add/Update Group" button.

CHANGING THE TOTALS COLUMN

If the totals column is changed for an existing group, another group is created. If this is not what is desired, the old group needs to be deleted.

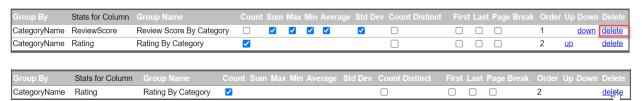
CHANGING A GROUP'S ORDER

Click the "up" or "down" link to the right of the group you wish to move.



DELETING A GROUP

Click the "del" link to the right of the group you wish to delete.



UPDATING GROUP DEFINITION(S)

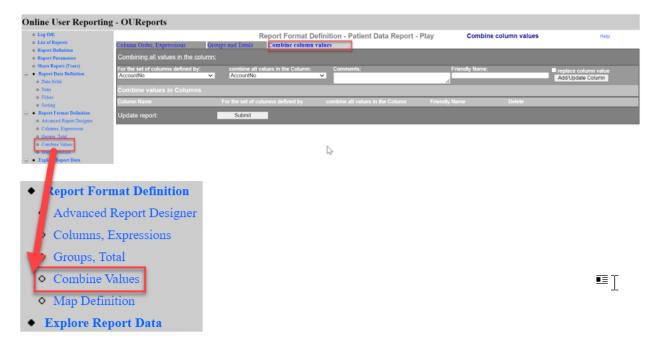
To update group definitions to the report click the "Submit" button.

Save Groups and update report: Submit

Report Format has been updated.

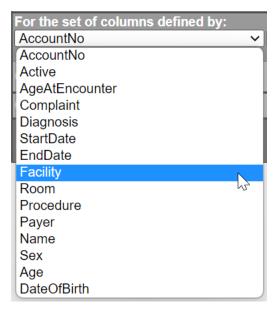
COMBINE COLUMN VALUES

Click the "Combine Values" option from left options menu, or click the "Combine column values" tab in Report Format Definition or click "Combine column values" from the "Report format" menu in Report Definition.

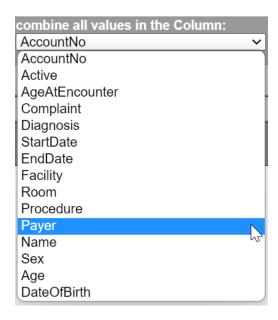


ADDING A COMBINED COLUMN

Choose the column to group the combined values:

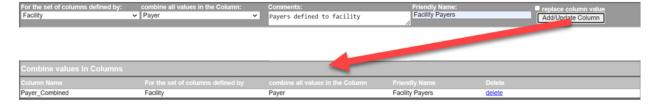


• Choose the column whose values are combined:

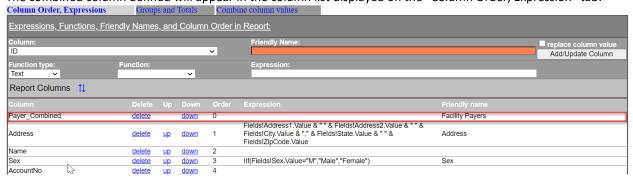


• Enter a Comment and/or a Friendly Name if desired and press the

Note: Do not check the replace column value checkbox. See Replacing A Column's Value with Combined Values below.



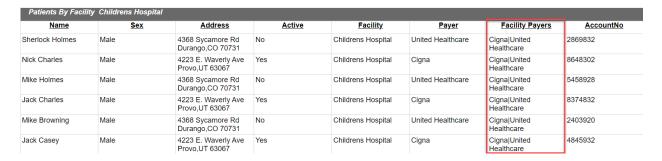
The combined column defined will appear in the column list displayed on the "Column Order, Expression" tab:



It can be positioned in the report from here.

The caption of the combined column on the report will be the friendly name if defined. If the friendly name is not defined, the caption on the report will be the column name created for the combined field.

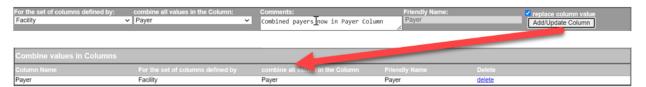
The values in the combined column will be combined with the "|" delimiter for all records belonging to the group. In the example above, the values in the field "Payer" will be combined and put in the "Facility Payers" column for each "Facility" group.



REPLACING A COLUMN'S VALUE WITH COMBINED VALUES

In the above example, values of the Payer column are combined and put in a new column ("Facility Payers"). However, there is a way of placing the combined fields in the Payer column itself:

- Set up the columns as shown in the Adding A Combined Column section.
- Enter a comment if desired.
- Do not enter a friendly name. Any friendly name you enter will be replaced by the friendly name you
 defined for the column in the "Column Order, Expressions" tab or the name of the column if no friendly
 name is defined.
- Check the read-only friendly name. checkbox. The column name or friendly name will now appear as
- Press the Add/Update Column button.



The combined columns will now appear in the Payer column on the Report:

<u>Name</u>	Sex	<u>Address</u>	Active	<u>Facility</u>	<u>Payer</u>	<u>AccountNo</u>	<u>StartDate</u>
Sherlock Holmes	Male	4368 Sycamore Rd Durango,CO 70731	No	Childrens Hospital	Cigna United Healthcare	2869832	9/10/2006
lick Charles	Male	4223 E. Waverly Ave Provo,UT 63067	Yes	Childrens Hospital	Cigna United Healthcare	8648302	10/24/2019
Mike Holmes	Male	4368 Sycamore Rd Durango,CO 70731	No	Childrens Hospital	Cigna United Healthcare	5458928	9/10/2006
lack Charles	Male	4223 E. Waverly Ave Provo,UT 63067	Yes	Childrens Hospital	Cigna United Healthcare	8374832	10/24/2019
like Browning	Male	4368 Sycamore Rd Durango,CO 70731	No	Childrens Hospital	Cigna United Healthcare	2403920	9/10/2006
ack Casey	Male	4223 E. Waverly Ave Provo,UT 63067	Yes	Childrens Hospital	Cigna United Healthcare	4845932	10/24/2019
Subtotals of Name	for: Patients By Facilit	y Childrens Hospital				_	
CntDist:							
6							

DELETING A COMBINED COLUMN

DELETING A NEW COLUMN CONTAINING COMBINED VALUES

Click the "delete" link to for the combined column you wish to delete.



Once the report has been updated, the combined column will no longer appear in the report. However, the column from which the values were combined will still be included in the report.

DELETING A COLUMN WHICH HAS REPLACED ITS VALUE WITH COMBINED VALUES

Click the "delete" link to for the combined column you wish to delete.



Once the report has been updated, the column will no longer appear in the report. It also will be deleted from the column list defined in the "Column Order, Expressions" tab. If you want the report to include its actual value in the report, you will have to redefine it in "Column Order, Expressions".

UPDATING COMBINED COLUMN IN THE REPORT

Click the "Submit" button to update combined columns to the report.



MAP DEFINITION

5092500 KANSAS

KENTUCKY

500000

If report data has geo coordinates as demonstrated below, a KML map generator is available.

Data for report: US - States Area, Population, Storms Damage 1950 Records returned: 30 **DAMAGE STATE** country atitude longitude name Indx abv area population 27500 ALABAMA 12 AL 50744 US 32.8067 -86.7911 Alabama 4779740 34.9697 -92.3731 Arkansas 860030 AR 52068.2 US 2915920 ARKANSAS 39.0598 -105.311 Colorado 50000 23 CO 103718 US COLORADO 5029200 252500 CONNECTICUT CT 4844.8 US 41.5978 -72.7554 Connecticut 3574100 FL 53926.8 US 27.7663 -81.6868 82500 FLORIDA 10 Florida 18801300 32500 **GEORGIA** 27 GA 57906.1 US 33.0406 -83.6431 Georgia 9687650 5877500 ILLINOIS 29 IL 55583.6 US 40.3495 -88.9861 12830600 Illinois 22 35866.9 US 89.8494 -86.2583 25000 INDIANA IN Indiana 6483800 IOWA 17 IΑ 55869.4 US 42.0115 -93.2105 3046360 lowa

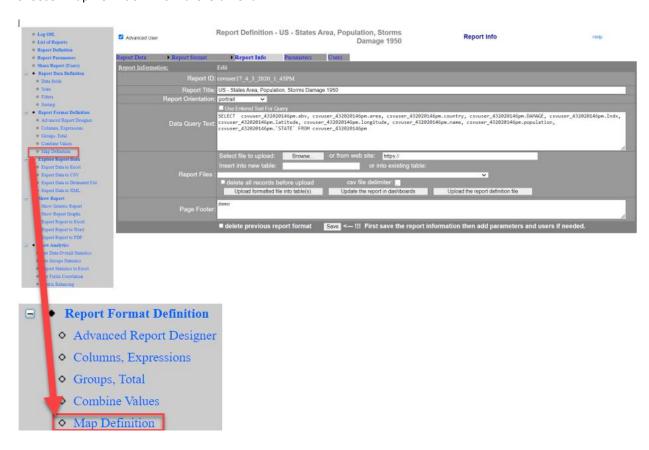
Choose "Map Definition" from the left menu:

20

13

KS 81814.9 US

KY 39728.2 US



38.5266 -96.7265 Kansas

37.6681 -84.6701 Kentucky

2853120

4339370

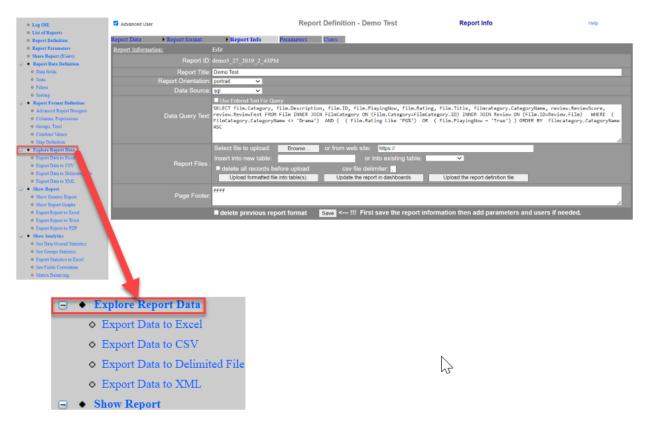
See Map Generation Document.

ADVANCED REPORT DESIGNER

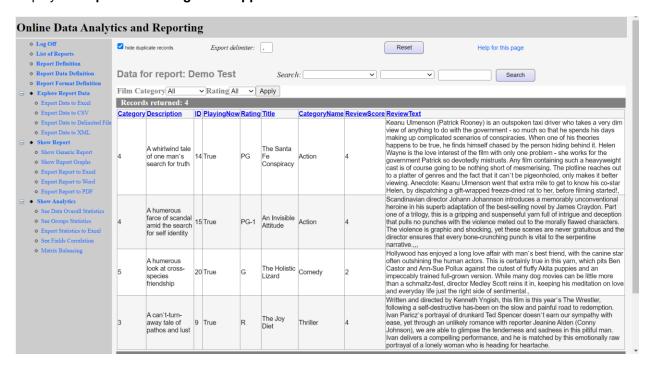
Once report data has been defined and updated, the Advanced Report Designer option can be used to further customize the report. See the <u>Advanced Report Designer</u> document for details.

EXPLORE REPORT DATA

Click "Explore Report Data" from the left options menu.

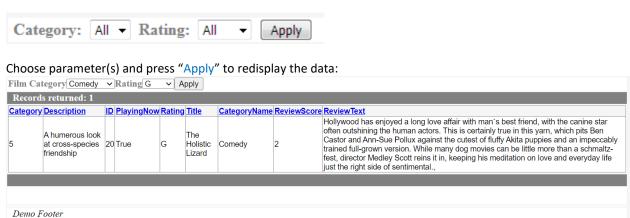


A list of data produced from the defined query and any applied parameters and/or search criteria is then displayed. **Report formatting is not applied.**



SELECTING PARAMETERS

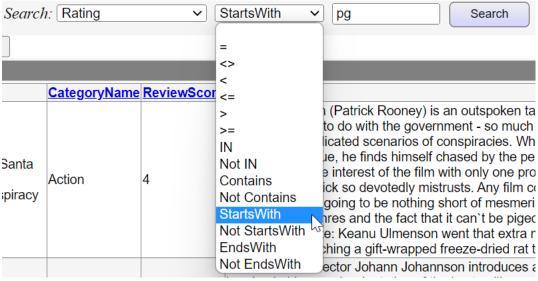
If Report <u>Parameters</u> are defined, a combo box will display for each one. "All" is the default value for each parameter. Parameters are applied to the current data.

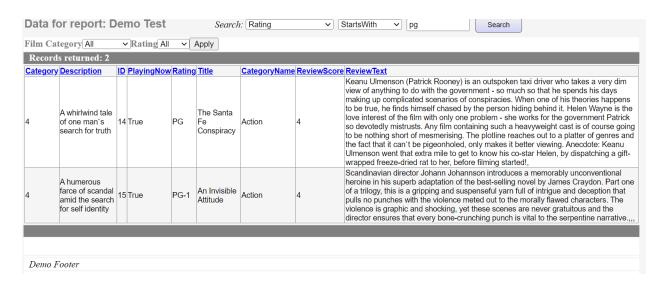


FIELD SEARCH

Field search provides another way to filter report data. One of many possible operators can be applied to the search. Parameters always imply an equal operator. The search is performed on current data.

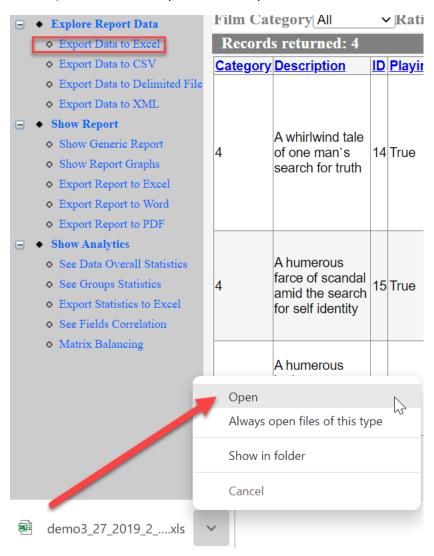
Enter search criteria and press "Search":

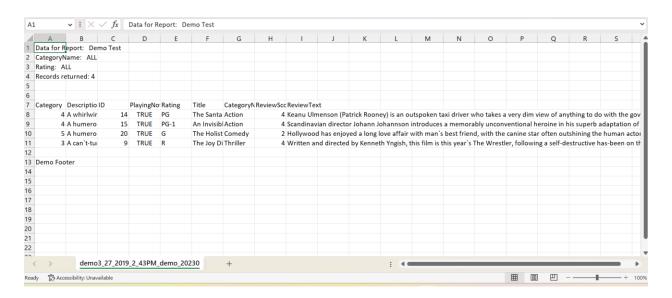




EXPORT DATA TO EXCEL

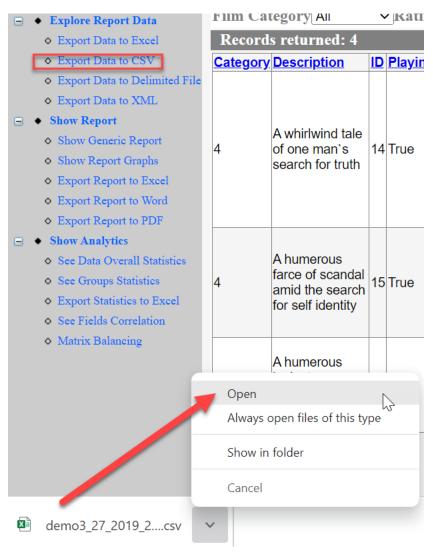
Click "Export Data to Excel" option from left options menu.

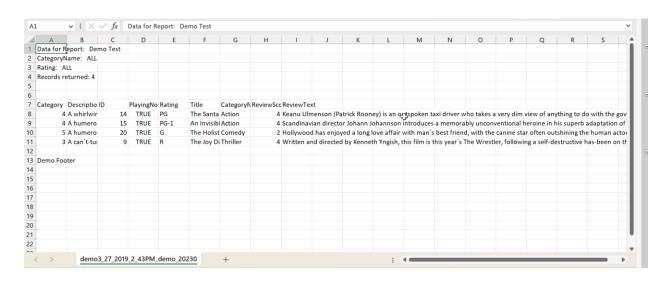




EXPORT DATA TO CSV

This option exports report data to a comma separated file (CSV). Click the "Export Data to CSV" option in the left options menu.



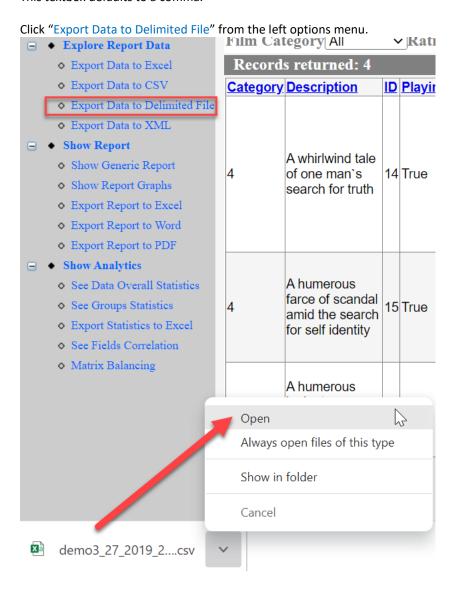


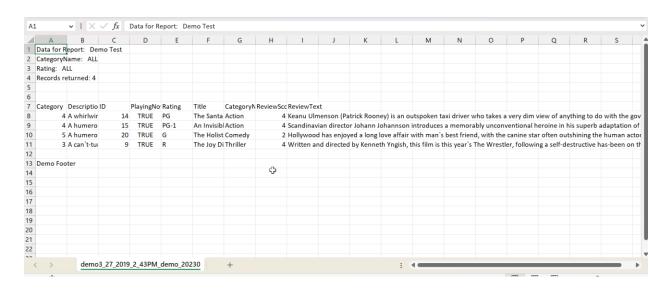
EXPORT DATA TO DELIMITER SEPARATED FILE

This option exports report data using the delimiter entered in the "Export delimiter" text box:

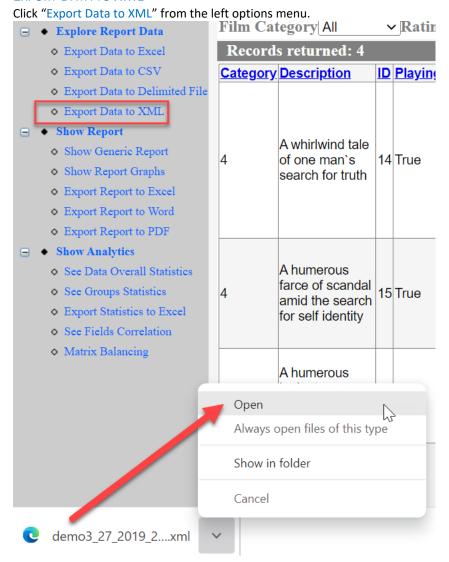
Export delimiter: ,

This textbox defaults to a comma.





EXPORT DATA TO XML



A^N Q & & ... **b** This XML file does not appear to have any style information associated with it. The document tree is shown below V.OncumentElement>
v.demol_27_2019_2_43PPD
v.demol_27_2019_2_43PPD
(clategory)=4/(clategory)
Obscription>4 whirlwind tale of one man's search for truth
(DD144_CD104_CD citle>The Santa Fe Conspiracy/(Title>
(Category/Wane)Action(/Category/Wane)
(Actions/Ware)Action(/Category/Wane)
(Actions/Ware)Action(/Category/Wane)
(Actions/Ware)Action(/Category/Wane)
(Actions/Ware)Action(/Category/Wane)
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(Actions/Ware)Action(Ware)Action(Ware)Action(Ware)Action
(Actions/Ware)Action(Ware)Actio (/demo3_27_2019_2_43PN)
(Category)46/Category)2
(Category)46/Category)2
(Category)46/ Category/lame>Comedy/Category/lame>

(RavienScore>2/RavienScore>2/RavienScore>2/RavienScore>

(RavienScore>2/RavienScore>2/RavienScore>2/RavienScore>

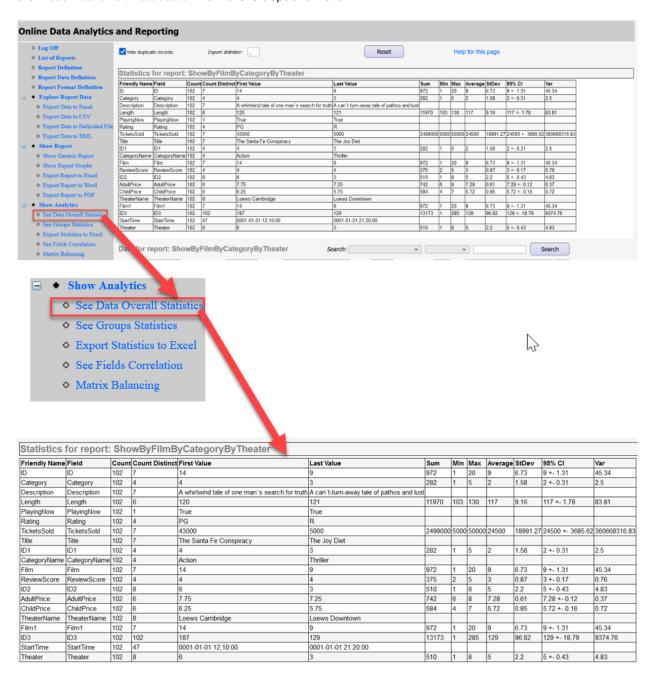
(RavienScore>2/RavienScore>2/RavienScore>2/RavienScore>

(RavienScore>2/RavienScore>2/RavienScore>2/RavienScore>

(RavienScore>2/Ra

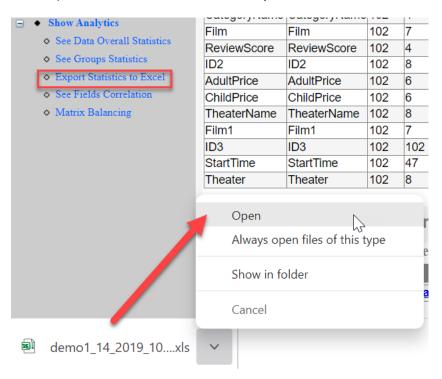
SEE DATA OVERALL STATISTICS

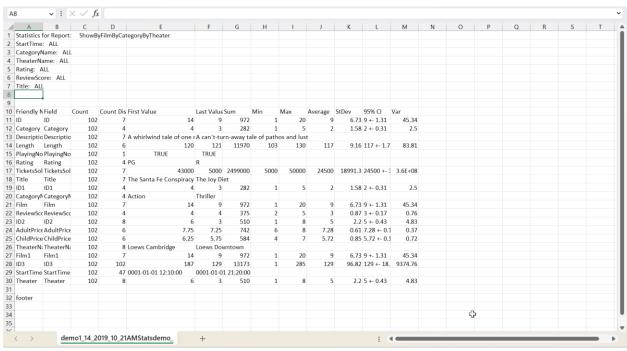
Click "See Data Overall Statistics" from the left options menu.



EXPORT STATISTICS TO EXCEL

Click "Export Statistics to Excel" from the left options menu.

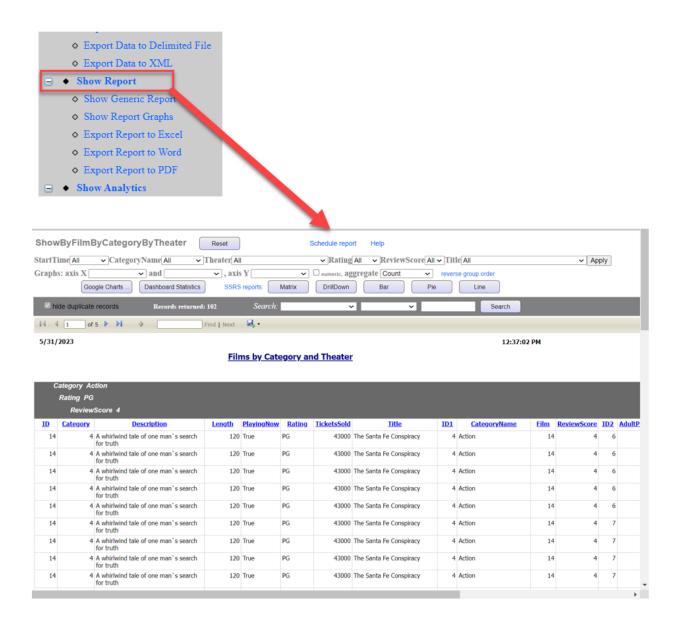




SHOW REPORT

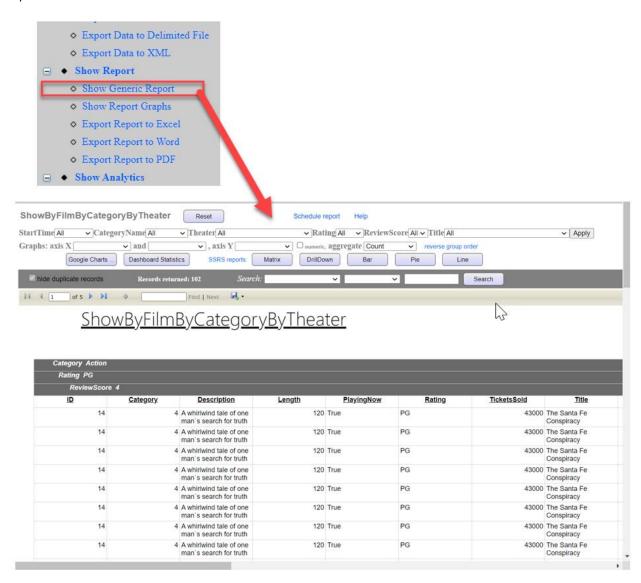
This displays the report with report designer formatting applied (See <u>Advanced Report Designer</u>). If no report designer formatting has been applied, a generic report is displayed (See <u>Show Generic Report</u>).

Click the report title in the "Show Report" column in <u>list of reports</u> or click "Show Report" from the left options menu.



SHOW GENERIC REPORT

This displays the report without report designer formatting applied. Click "Show Generic Report" from the left options menu.

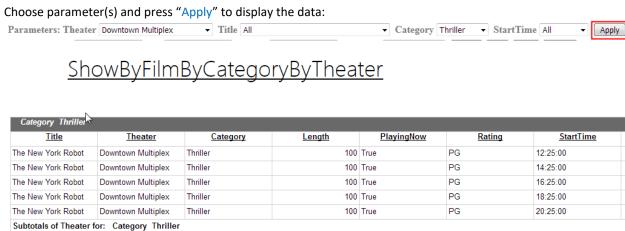


SELECTING PARAMETERS

If Report <u>Parameters</u> are defined, a combo box will display for each one. "All" is the default value for each parameter. Parameters are applied to the current data.

See Related Parameters section.

RELATED PARAMETERS NOT CHECKED



RELATED PARAMETERS CHECKED

Count:

As each parameter is chosen, the report is refreshed.

CntDist:

FIELD SEARCH

The Santa Fe

Conspiracy

Field search provides another way to filter report data. One of many possible operators can be applied to the search. Parameters always imply an equal operator. The search is performed on current data.

Enter search criteria and press "Search": ShowByFilmByCategoryByTheater Search: Rating ▼ Contains **▼** pg Search <u>ShowByFilmByCategoryByTheater</u> Rating <u>StartTime</u> <u>Title</u> <u>Theater</u> Category <u>Length</u> <u>PlayingNow</u> The Santa Fe Loews Cambridge Action 120 True PG 12:10:00 Conspiracy The Santa Fe Loews Cambridge Action 120 True PG 14:30:00 Conspiracy The Santa Fe Loews Cambridge Action 120 True PG 16:50:00 Conspiracy The Santa Fe PG 19:10:00 Loews Cambridge Action 120 True Conspiracy PG 21:30:00 The Santa Fe Loews Cambridge Action 120 True Conspiracy The Santa Fe General Cinema Action 120 True PG 12:10:00 Conspiracy

120 True

PG

14:30:00

GOOGLE CHARTS AND DASHBOARDS

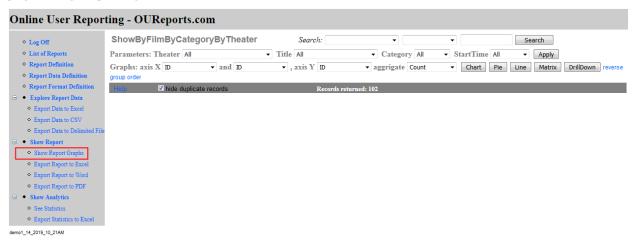
See Google Charts and Dashboards documentation.

General Cinema

Downtown

Action

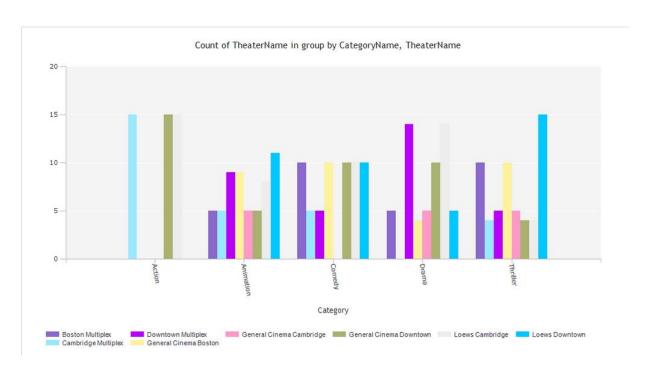
SHOW REPORT GRAPHS



CHART

ShowByFilmByCategoryByTheater

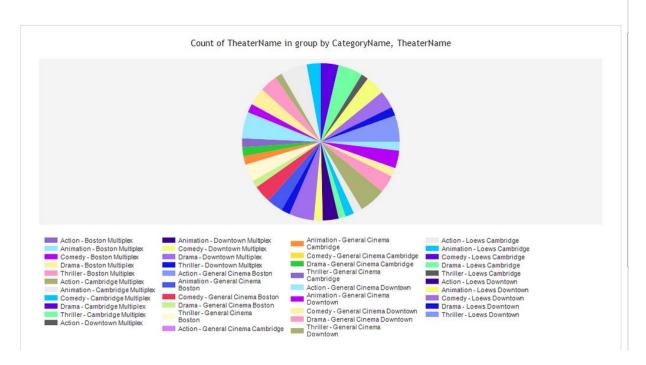
TheaterName: All, Title: All, CategoryName: All, StartTime: All,



PIE

ShowByFilmByCategoryByTheater

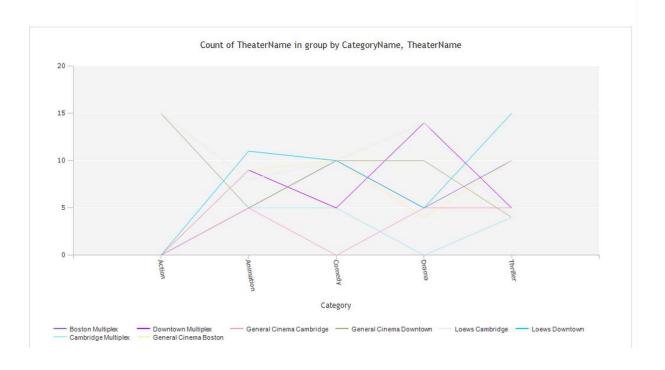
TheaterName: All, Title: All, CategoryName: All, StartTime: All,



LINE

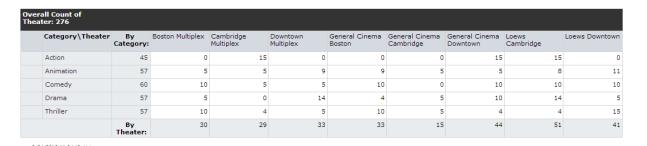
ShowByFilmByCategoryByTheater

TheaterName: All, Title: All, CategoryName: All, StartTime: All,



MATRIX

ShowByFilmByCategoryByTheater
TheaterName: All, Title: All, CategoryName: All, StartTime: All, Count of Theater in group by Category, Theater

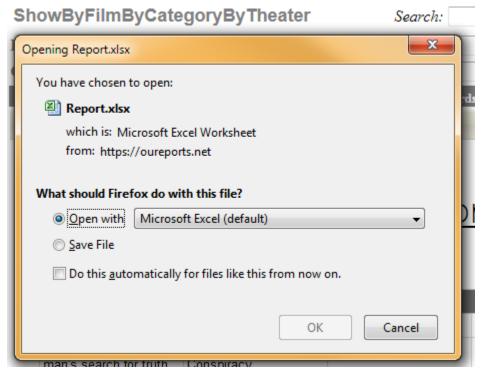


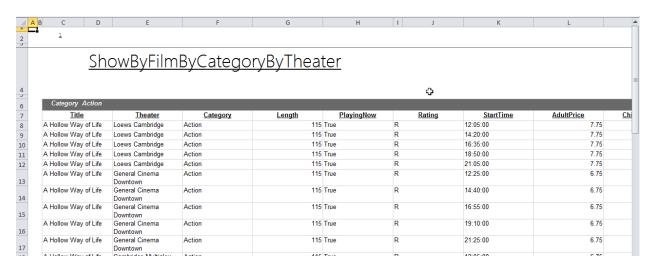
EXPORT REPORT TO EXCEL

Click the "Export Report to Excel" option in the left options menu or choose "Excel" item from the Report Viewer's Export drop down menu.

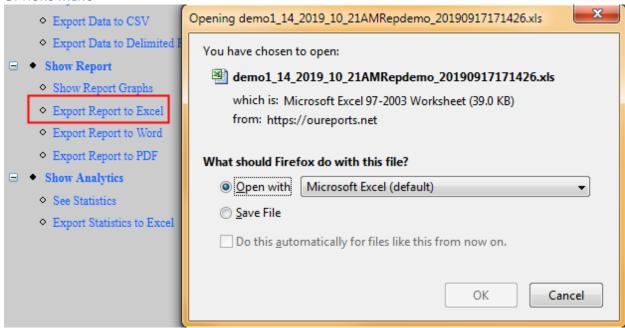
REPORT VIEWER

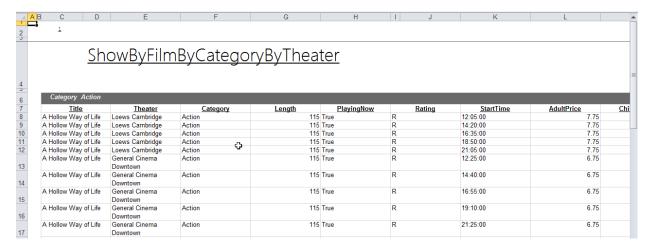






OPTIONS MENU



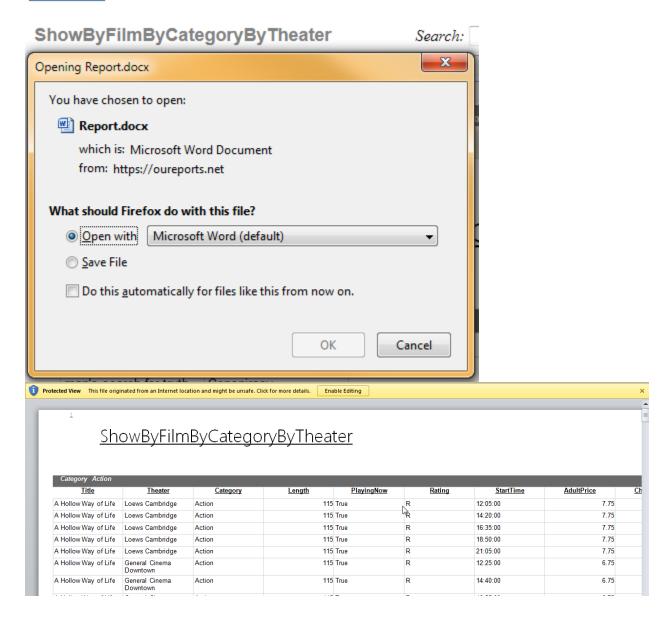


EXPORT REPORT TO WORD

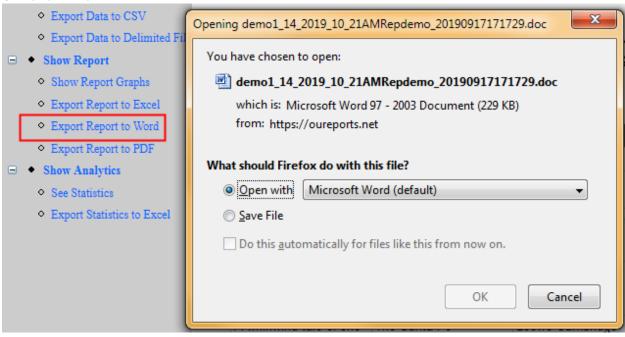
Click the "Export Report to Word" option in the left options menu or choose "Word" item from the Report Viewer's Export drop down menu.

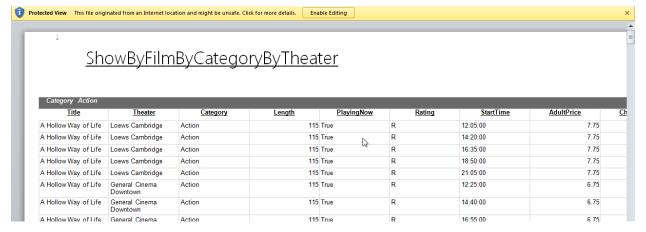
REPORT VIEWER





OPTIONS MENU



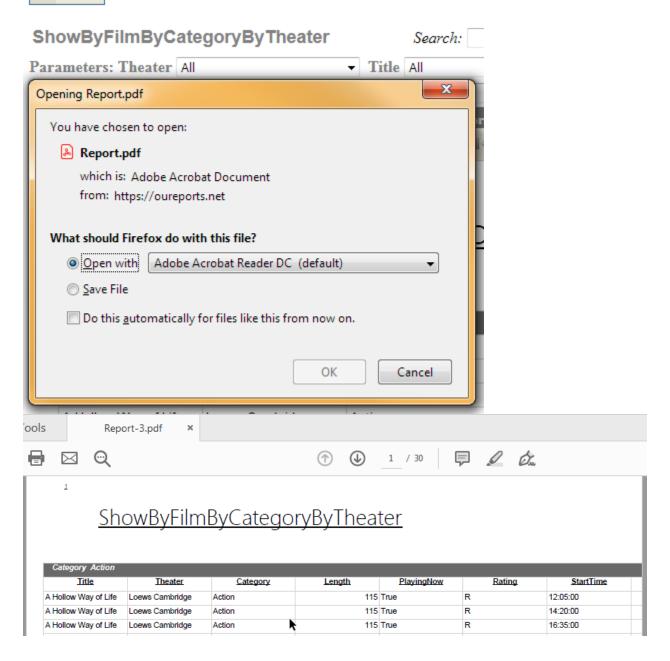


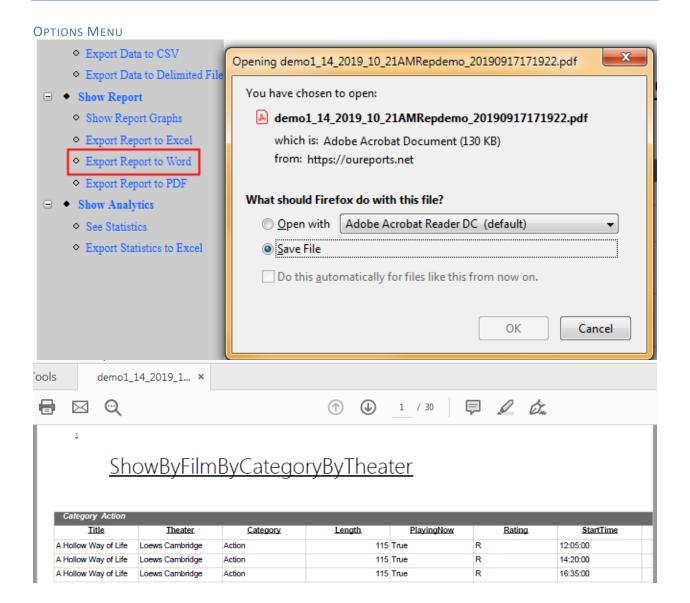
EXPORT REPORT TO PDF

Click the "Export Report to PDF" option in the left options menu or choose "PDF" item from the Report Viewer's Export drop down menu.

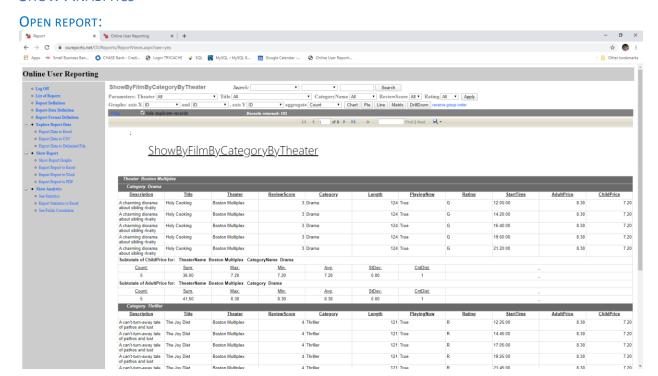
REPORT VIEWER



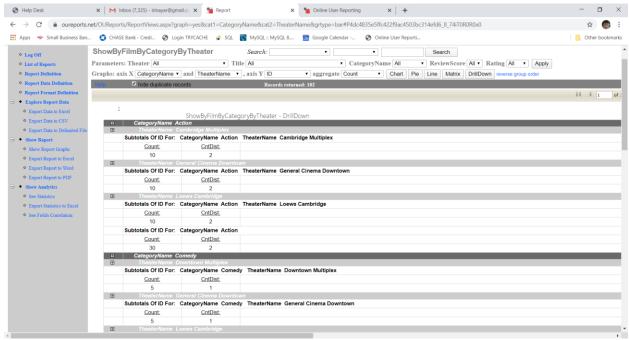




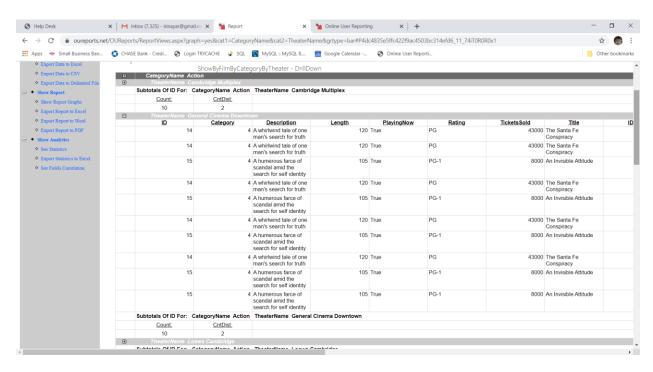
SHOW ANALYTICS



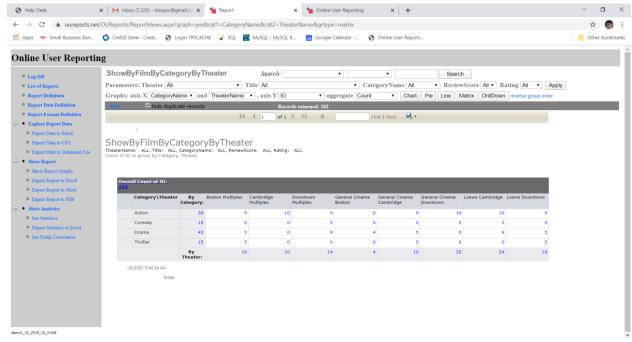
CLICKING SOME DRILLDOWN LINK WILL OPEN DRILLDOWN REPORT WITH GROUPING BY SELECTED GROUP 1 AND GROUP 2:



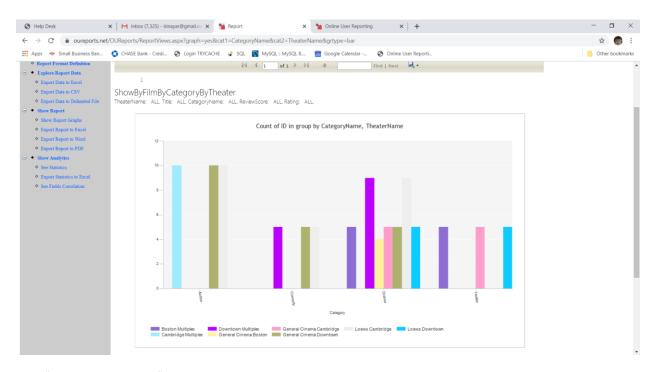
Expand by clicking "+" sign:



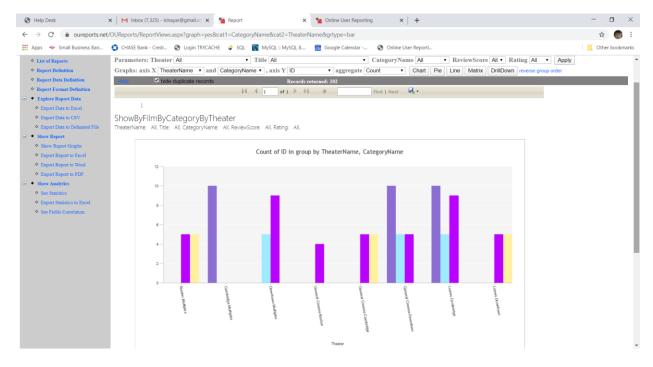
CLICKING SOME MATRIX LINK WILL OPEN MATRIX REPORT WITH LINKS TO DRILLDOWN REPORTS IN EACH CELL:



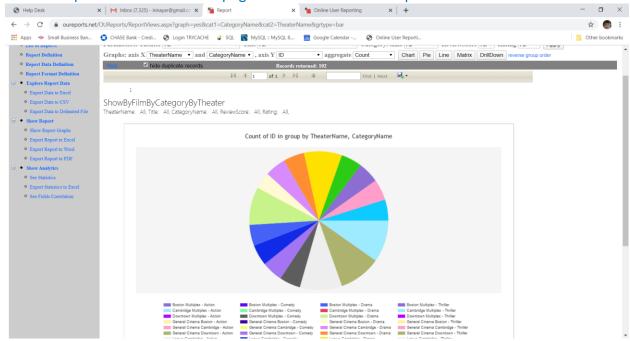
CLICK THE "BAR" BUTTON FROM THIS PAGE OR LINK FROM MATRIX REPORT:



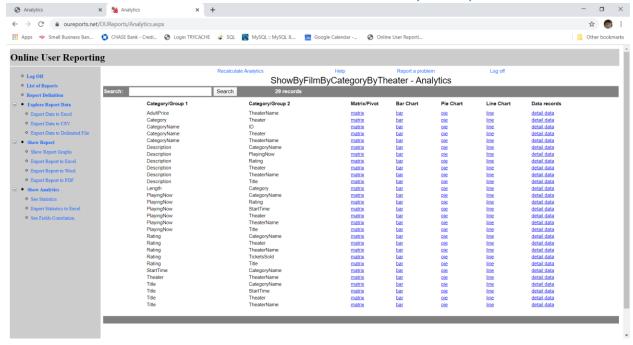
Click "reverse group order" link:



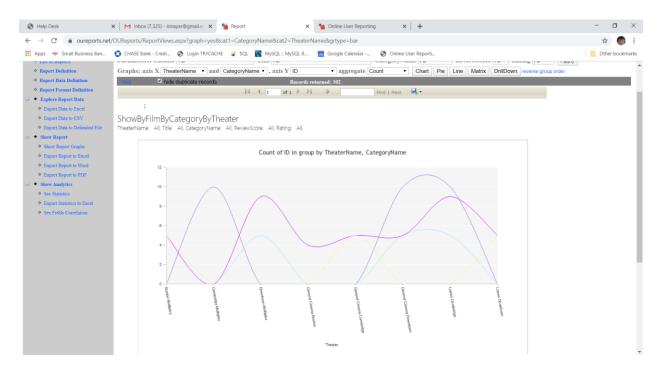
Click the "pie" button from this page or link from matrix report:



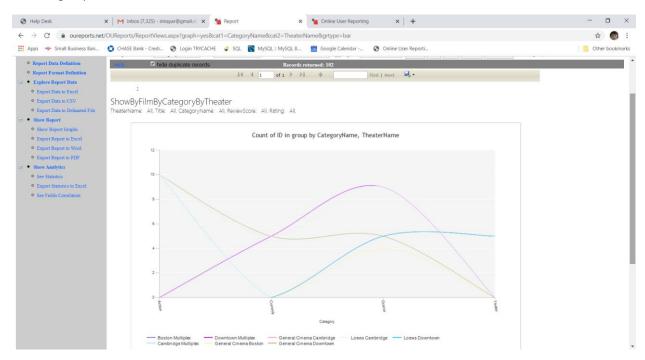
CLICK SHOW ANALYTICS FROM THE LEFT MENU AND SEE LINKS TO MATRIX, GRAPHS, AND DRILLDOWN REPORTS:



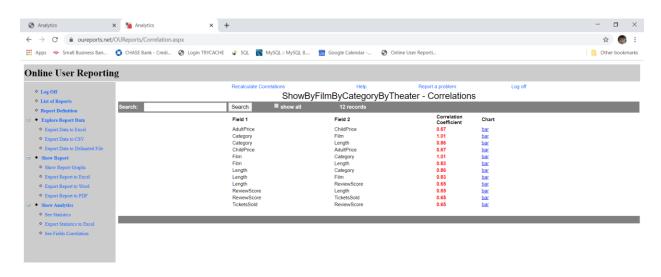
CLICK THE "LINE" BUTTON FROM THIS PAGE OR LINK FROM MATRIX REPORT:



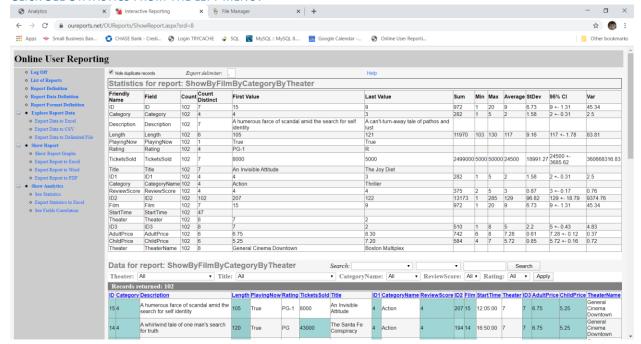
Reverse group order:



CLICK CORRELATION FROM THE LEFT MENU TO SEE CORRELATION COEFFICIENTS AND GRAPH REPORTS:

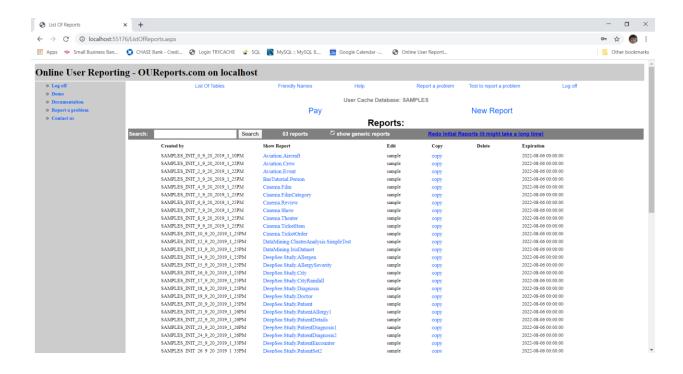


CLICK SEE STATISTICS FROM THE LEFT MENU:

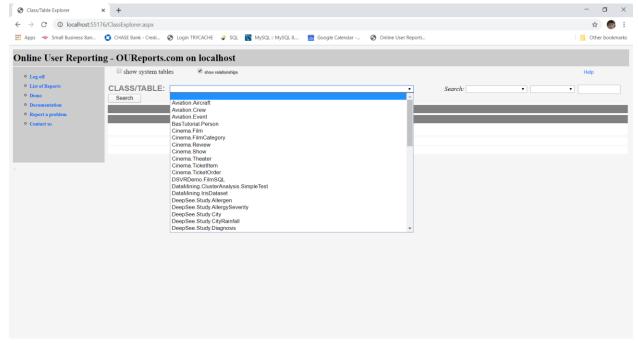


MATRIX BALANCING
See Matrix Balancing Document

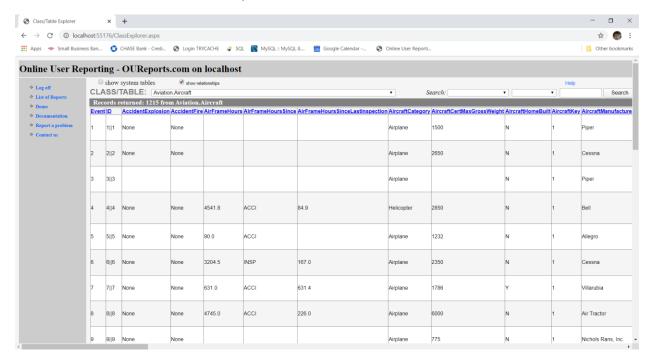
CLASS/TABLE EXPLORER



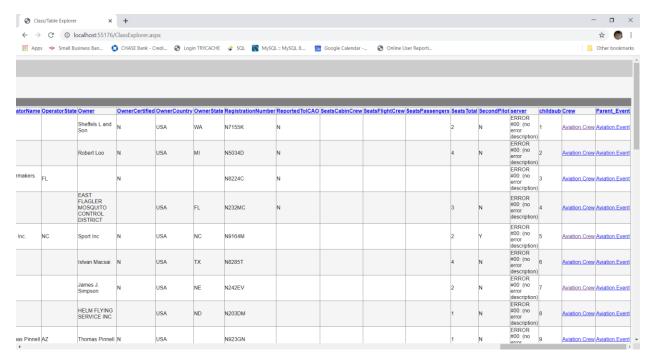
CLICK LIST OF TABLES LINK IN THE TOP LEFT CORNER:



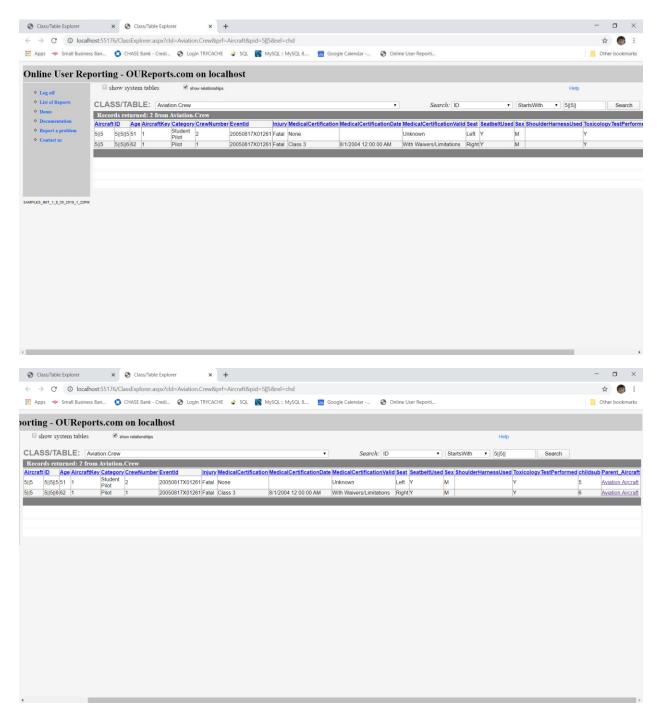
Select Class Aviation. Aircraft from the dropdown list:



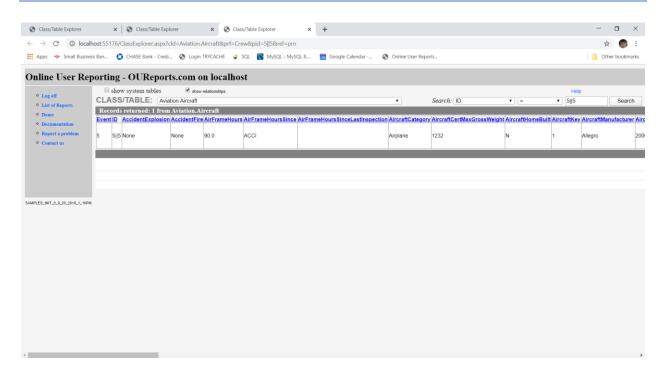
Scroll to the right to see links to the parent and children classes:



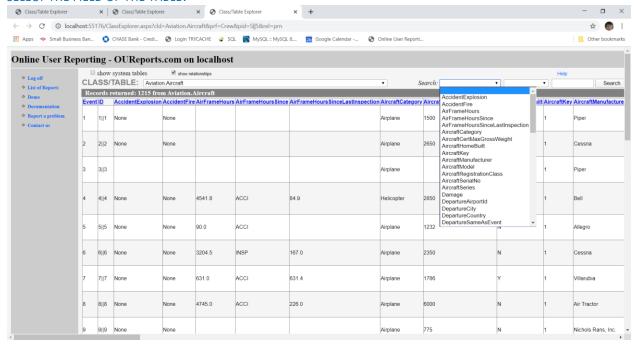
Mouse over shows how many children the record has. Click on the link Aviation. Crew in the record 5 open 2 children:



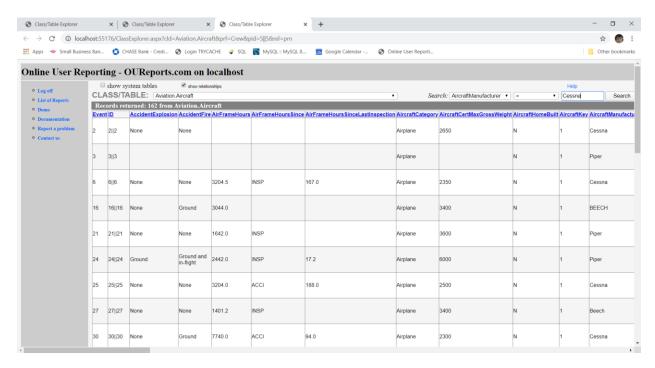
CLICK PARENT LINK TO RETURN TO THE PARENT:



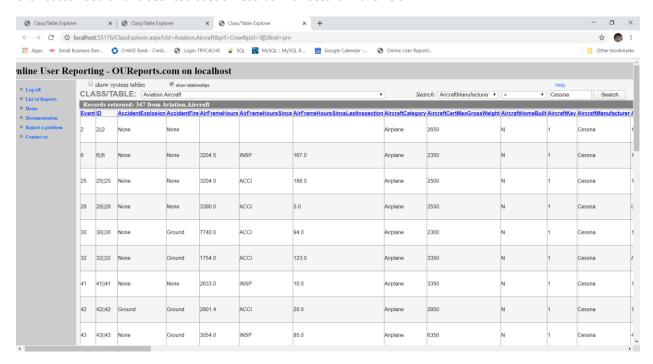
SELECT AVIATION.AIRCRAFT FROM DROPDOWN TO GET ALL TABLE AGAIN. EXPAND SEARCH DROPDOWN AND SELECT THE FIELD OF THE TABLE:



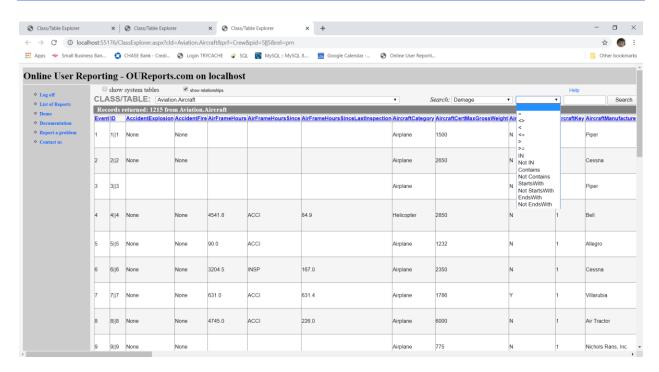
Then select field to search, operator, and enter value:



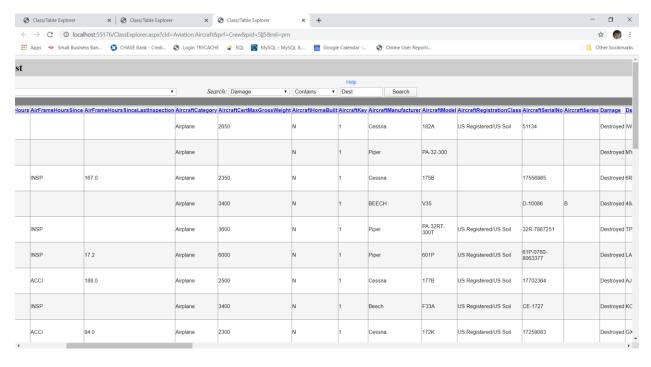
Click button Search and see result set of records with Cessna in the field:



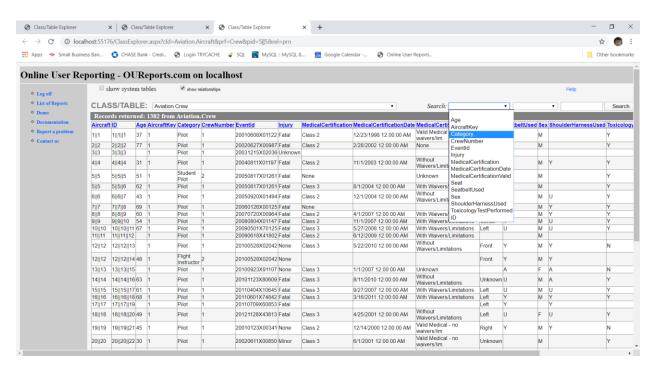
Then select another field "Damage" and operator "Contains":



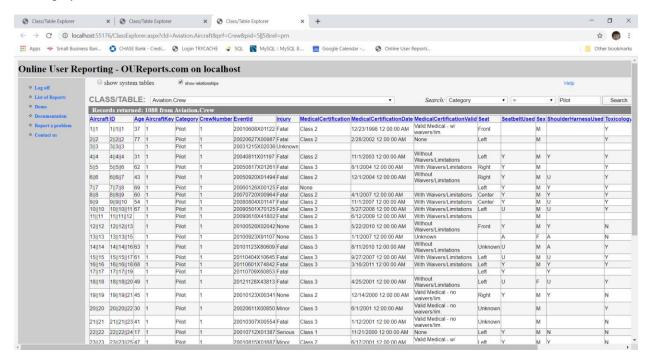
Assign the value for filter "Dest". Click button Search:



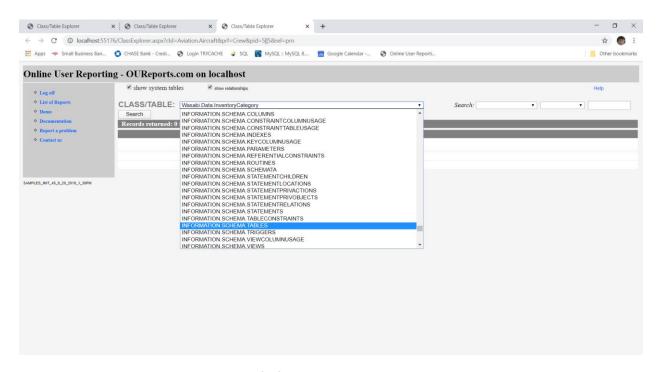
Select Aviation.Crew from the list of Classes:



Select Category field to Search, operator "=" and enter value "Pilot". Click button Search. See records with "Pilot" in Category field:



CLICK CHECKBOX TO SHOW SYSTEM TABLES (VISIBLE ONLY TO ADMIN USER):



Select some table and see data that are helpful for sys admins:

