REPORT MANAGER

HOW-TO DOCUMENTATION

DATAMINE SOFTWARE

DATAMINE

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PURPOSE

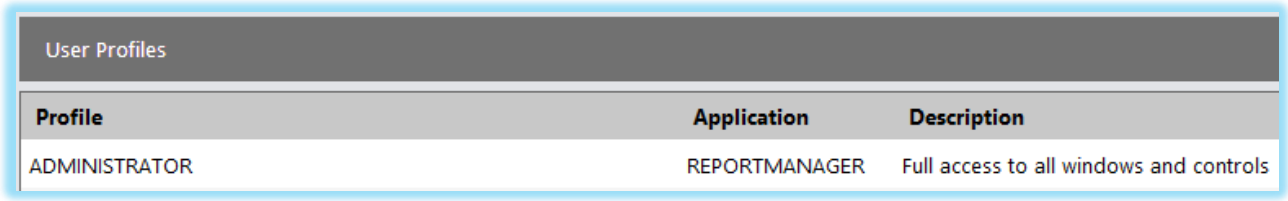
Report Manager is a robust QAQC charting and reporting application that allows users to quickly view and report on data contained in any Fusion database. Using popular industry standards, Datamine has provided users with many different chart types.

The application also allows users to easily create database queries to retrieve and export raw data from the database. An intuitive interface aids in creating simple or complex queries with any skill set.

PREREQUISITES FOR USING THE APPLICATION

USER PROFILE PERMISSION

Accessing the Report Manager application can be done with any user. However, the ability to create Global objects (Charts, Activities, Reports, Queries, Database Reports, Widgets and Dashboards) is reserved for users with the Report Manager Administrator profile. This can be found in the User Administrator window within Fusion Administrator.

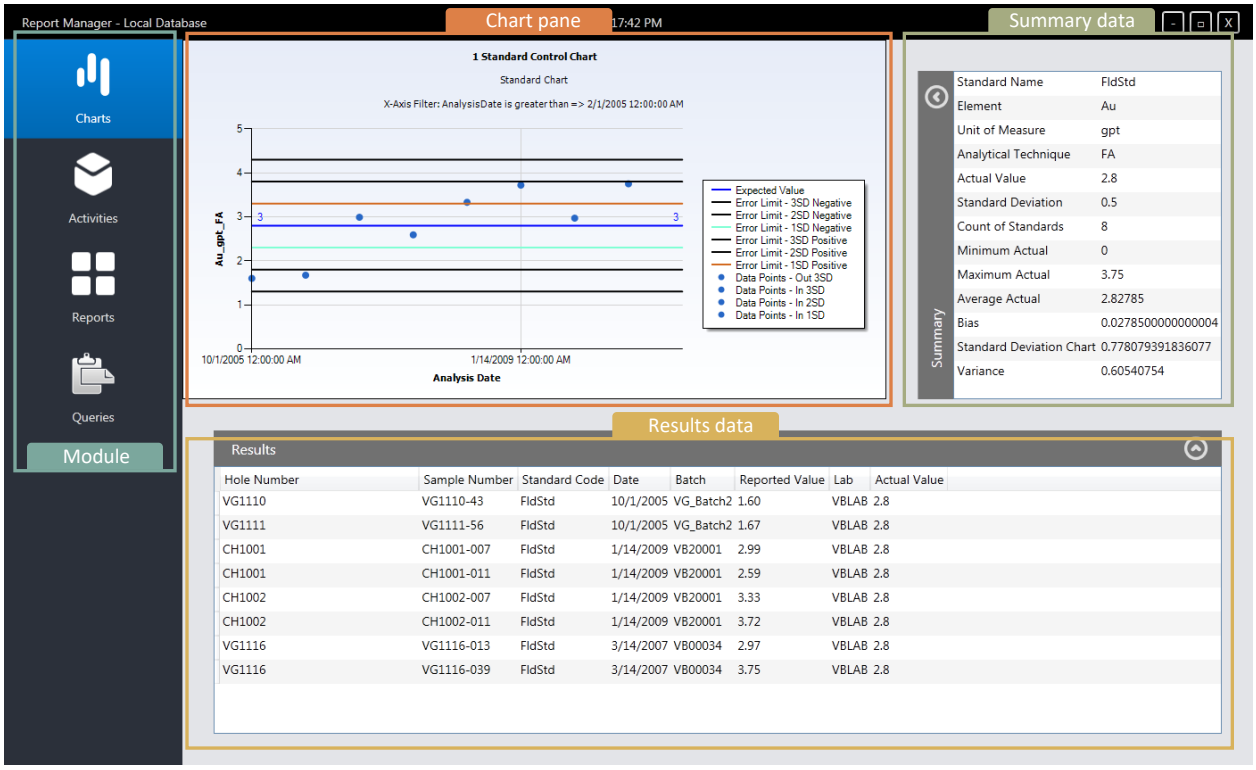

User Profiles

Profile	Application	Description
ADMINISTRATOR	REPORTMANAGER	Full access to all windows and controls

DATABASE CONNECTION

Report Manager can be used against any Fusion database. Multiple connections can be established by using multiple instances of RM.

MODULE LAYOUT - CHARTS



CHARTS

Charts make up most of the content in Report Manager. Each Chart has three sections: the Chart, Summary and Result. All of which are customizable through the interface.

Users will have access to 2 different types of chart tiles: Global and Local. Global Charts are those that have been created by an Administrator and assigned to Business Units. Only users that belong to the associated business unit may see the chart. Local charts will always be displayed when connected to that database.

CHART VIEW

Users are presented with a Tile based view. Each tile represents a different chart. A global chart is identified with the icon. The tile will also describe high level details regarding the chart such as the description and chart type.

Chart

- **Name**: A unique name to identify the Chart
- **SubTitle**: A short description for the Chart which is also shown when the chart is generated
- **Owner:** Shared charts on a database are owned. Overwriting the owner can be done here
- **Show Chart/Summary/Result Sections**: Toggle each section On/Off when generated
- **Global Chart:** Option is available to Report Manager Administrators and when connected to the Central Database

Chart Inputs

- A dynmaic input section which varies depending on the Chart Type selected. All fields are required to correctly generate the chart. Some fields are defaulted as well where applicable.

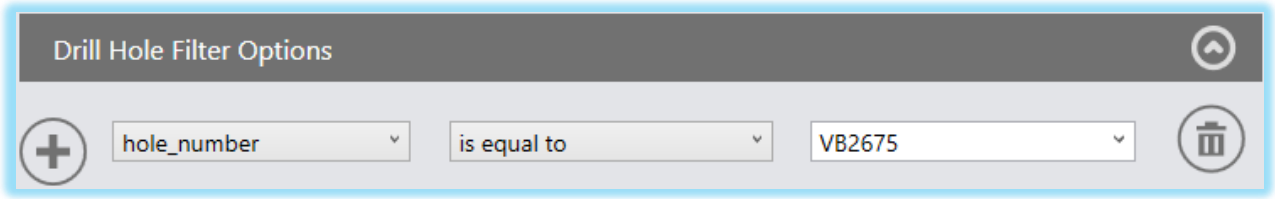
Chart Parameters

- A dynamic input section for further options regarding the specific chart type selected.

FILTERS

Users have the option to create filters to limit the data set returned from the database.

A filter may consist of one or more include or exclude statements. Each statement consists of the database column, the operator and the criteria value:



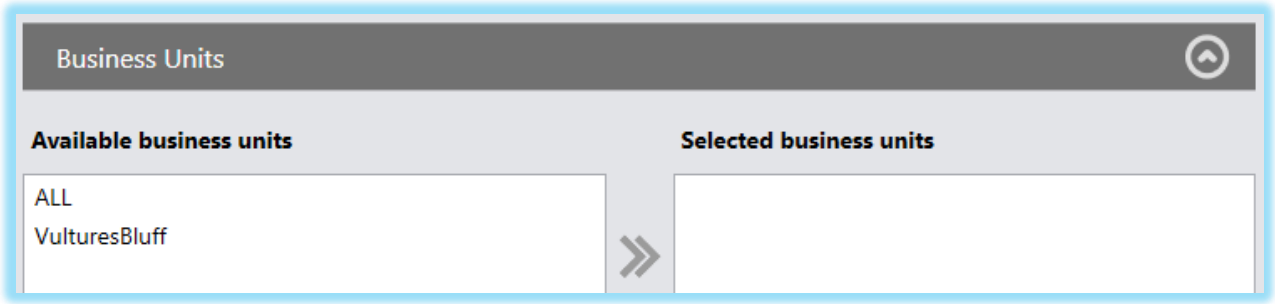
The Database Column list is a standard list of columns that exist in the dhl_sample_column_details, drill_hole and sstn_surface_samples table and custom columns exist in drill_hole and sstn_surface_samples table.

The Operator list is a hard-coded list of operators depending on the data type of the selected database column. Strings, Numbers and Date columns allow for different operators to be specified.

The application will attempt to retrieve a list of distinct values from the database to populate the criteria value drop down (to aid with filter creation). If the drop down for this list is empty, there are no values in the current database for this column, the data type specified does not allow for data retrieval or the application is still retrieving a list of values.

BUSINESS UNITS

When creating a global chart, users can specify from a list of Business Units as to which members can view or copy this chart once synchronized.



CUSTOMIZING CHARTS

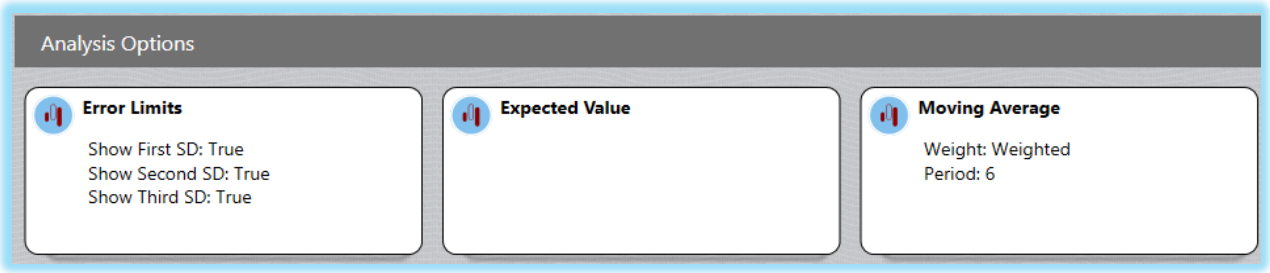
OVERVIEW

Report Manager gives users full control over how a chart can be customized. In addition to altering the appearance of the chart, users can add and customize series for the chart.

ANALYSIS OPTIONS

Each chart allows the ability to add or remove analysis options. These options alter the appearance of the chart in multiple ways. By adding new analysis options to a chart, users can view details such as Tolerance Levels, Failure Limits and Expected Values. Analysis Options are limited by chart type. Once created, users can have the ability to customize the look and feel of these new series.

When editing a chart, a similar tile-base view is presented to the user. This view shows all the existing Analysis Options and any relevant information.



Creating new or editing existing Analysis Options is streamlined by retrieving configured values directly from the configuration in the Fusion database.

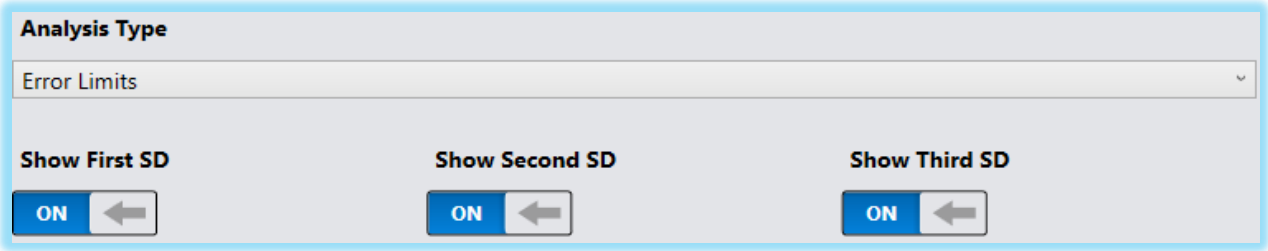


CHART OPTIONS

This section of chart editing allows users to customize the look and feel of the chart output. Four different sub sections

Label Options control all the text on the chart. Everything from the Title and Subtitles to the X and Y Axes.

Series Options control the appearance of any of the lines or points on the chart. Users can change colors, size, shapes, and styles of these aspects in the chart.

Axes Options allow the users to change min and max values as well as interval amounts. Changing these values can drastically change the output of the chart and empower users to produce valuable chart results.

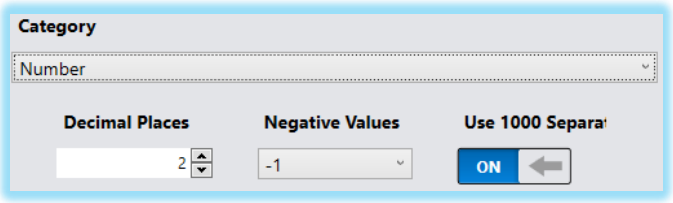
Color Options allow users to customize the look of the charting area itself. Background and Legend colors just a few of the different aspects that can be altered.

SUMMARY OPTIONS

This section of chart editing allows users to customize the different outputs and statistics for the current chart.

Users are able to specify which of the relevant summary outputs will be shown by toggling the On/Off button. Overwriting the Label with a user-specified value can also be done.

The format of the output can also be changed. For example, a category type of Numeric gives users the ability to specify the number of decimal places to display or to replace negative values with a different constant value.



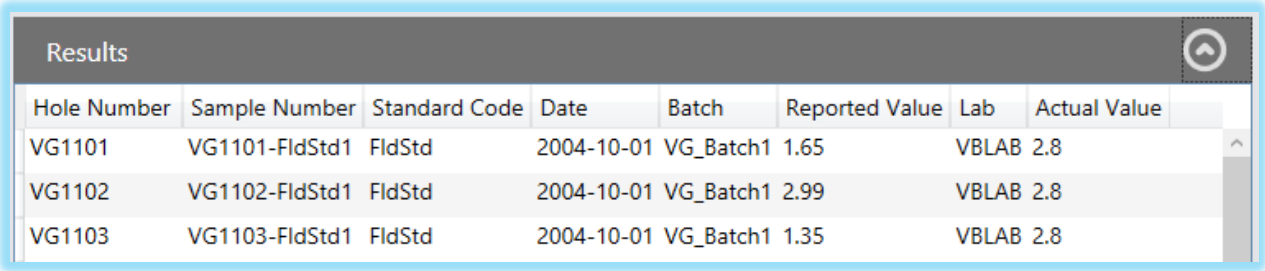
Summary

Standard Name	FldStd
Element	Au
Unit of Measure	gpt
Analytical Technique	FA
Actual Value	2.8
Standard Deviation	0.5
Count of Standards	15
Minimum Actual	0
Maximum Actual	3.7242
Average Actual	2.34308666666667
Bias	-0.456913333333333
Standard Deviation Chart	0.834530390792064
% Relative Error	35.6167103276332
Variance	0.696440973155555

RESULTS OPTIONS

This section of chart editing allows users to customize the raw output of the data retrieved to populate the chart. All the data retrieved from the Fusion database and used to produce the current chart can be viewed in this section.

Similar to the Summary section, users have the ability to hide and show different columns related to the data that is gathered for chart creation.



Hole Number	Sample Number	Standard Code	Date	Batch	Reported Value	Lab	Actual Value
VG1101	VG1101-FldStd1	FldStd	2004-10-01	VG_Batch1	1.65	VBLAB	2.8
VG1102	VG1102-FldStd1	FldStd	2004-10-01	VG_Batch1	2.99	VBLAB	2.8
VG1103	VG1103-FldStd1	FldStd	2004-10-01	VG_Batch1	1.35	VBLAB	2.8

Additionally, users can create filters to limit data that appears in the output section. It is important to note that filters in this section do not affect the data used to create the chart or calculate any of the statistical data in the Summary section.

CHART EXPLANATION

Multiple Standards Chart

Show grade-based bias

- If the data is distributed evenly around the certified mean, there will be no bias. Any clusters above or below the 0% deviation line may indicate a bias. This does not indicate failures. Outliers may indicate sample mixups. This chart should be used in conjunction with the control charts to confirm if a bias exists. This chart can also be used to show laboratory standard bias vs. property-specific standard bias. This chart will typically be used on a month-to-month basis. There may not be much value if using this chart on a day-to-day basis. NOTE: Outliers should be resolved before running this chart, otherwise they will skew the data (output will not be representative of the data).
- Checks for: Bias.
- X-Axis: Certified Value / Y-Axis: Percent Deviation

Z-Score Chart

Compare performance between standards

- Used to detect failures and bias for each standard in use, on a single chart. The Z-Score is the number of standard deviations an individual analyses is from the mean. If the analyses equals the mean, the Z-Score is zero. As the analyses deviates from the mean, the Z-Score increases\decreases (depending on the direction of the deviation).
- Checks for: Accuracy
- X-Axis: Standard Sequence / Y-Axis: Z-Score

Original vs. Duplicate Scatter Chart

Detect bias between duplicate types and/or errors in the data

- This is the first step in the precision calculation. If the data is distributed randomly along the 1 : 1 line, this indicates that there is no bias. A single outlier may indicate errors in analysis or data entry. Any clusters above or below the 1 : 1 line may indicate a bias. Used for the three types of duplicates (field, prep, pulp). A bias in core could indicate a bias towards mineralization in sample selection. A bias in dry RC could indicate errors in sample splitting. NOTE: Depending on how wet RC samples are split, a certain amount of bias may be expected.
- Checks for: Precision (representativity)
- X-Axis: Duplicate Value / Y-Value: Original Value

Absolute Difference vs. Sample Pair Average

Define the range of difference as the grade changes

- This is the second step in the precision calculation. This chart will show the relationship between grade and difference. It can be used to define the position of potential nuggets. TIP: Include the geology (rock type) for each point to identify the geology that has poor precision.
- Checks for: Precision (representativity)
- X-Axis: Duplicate Value / Y-Axis: Orginal Value

Thompson Howarth Groups of 11

Smoothed relationship between grade and the absolute difference through a grade range

- This is the third step in the precision calculation. After the data is sorted by increasing mean, it is then grouped in sets of 11 samples. The mean of each set of 11 and the median absolute difference of each set of 11 is calculated and plotted in a scatter chart. If the data produces a (relatively) linear line, the mineralization is homogeneous. As the data deviates from the regression line, it could be an indication of heterogeneous mineralization. A negative intercept could indicate a sample bias, or multiple geological populations. Deviations for prep or pulp dups could be an indication of laboratory issues. NOTE: to obtain a regression that is truly representative, it is recommended to have a minimum of 8-9 groups.
- Checks for: Smoothed relationship between grade and the absolute difference through a grade range
- X-Axis: Group of 11 Mean / Y-Axis: Group of 11 Median Absolute Difference

Thompson Howarth Precision vs. Concentration

Smoothed relationship between percent precision and grade

- This is the final step in the precision calculation. After the groups of 11 are plotted (group mean vs. group median absolution difference), the slope and intercept of the regression is inserted in to the Thompson Howarth precision formula for each Concentration value. Expect field duplicates to have worse precision than prep duplicates, and prep duplicates to have worse precision than pulp duplicates (as the error is cumulative). NOTE: The resulting precision value is only an **approximation** of the sampling and analytical error at a given grade. This is an estimate of risk.
- Checks for: PRecision (representativity)
- X-Axis: Concentration (grade) / Y-Axis: Percent Precision

Quantile vs. Quantile

Detecting grade-based bias between different labs (check assays)

- Typically used to confirm the accuracy of analysis over a large grade range (i.e. check assays between two labs). Points along the 1 : 1 line indicate the two labs are reporting similar results over the entire grade range. As points deviate from the 1 : 1 line it could indicate a grade-based bias in one of the labs. A suspected grade-based bias should be confirmed by the insertion of certified reference material. NOTE: Not to be confused with duplicates (used to check precision)
- Checks for: Accuracy (bias)
- X-Axis: Lab 1 / Y-Axis: Lab 2

Standard Control Chart (Shewhart)

Monitor the accuracy of single analyses

- Used to track the accuracy of individual analyses against a certified accepted value and error. Typically, any data point more than 3SD from the certified mean is a failure in accuracy. Any two (or more) consecutive points more than 2SD's on the same side of the certified mean could indicate failures in bias.
- Checks for: Accuracy.
- X-Axis: Date (sequence)
- Y-Axis: Value

Blank Control Chart

Monitor contamination

- Used to track the contamination of individual analyses throughout the sampling process (collection, prep, analysis). A typical warning limit for blanks is 5x a pre-determined background value. Any data point above the warning limit should be investigated for potential contamination, sampling issues, or lab issues.
- Checks for: Contamination
- X-Axis: Date (sequence) / Y-Axis: Value

Relative Absolute Difference (RAD)

Estimate of precision (when the Thompson Howarth method can't be used)

- Used to estimate precision when the Thompson Howarth method cannot be used (i.e. negative intercept). Data is smoothed with a moving average. The moving average indicates the estimated precision by grade. The more data points you have, a larger moving average period can be used which will provide a smoother curve. NOTE: Need a minimum of a few hundred pairs of data for the moving average to be smooth and easily interpreted. NOTE: The resulting precision value is only an **approximation** of the sampling and analytical error at a given grade. This is an estimate of risk.
- Checks for: Precision (representativity)
- X-Axis: Grade / Y-Axis: Relative Absolute Difference

Cumulative Sum Control Chart (CuSum)

Detect long-term continuous bias

- Used to detect if a long-term bias exists. A degredation in the system would be visible by a continuously increasing (or decreasing) line. A truly random distribution over time will show no continuous increase or decrease around the base value. For example, oxidation of a standard from a sulphide to an oxide would be clearly represented by a continuous decrease in grade over time, and shown as a downward trending line.
- Checks for: Accuracy (bias)
- X-Axis: Cumulative Deviation / Y-Axis: Date (sequence)

ACTIVITIES

OVERVIEW

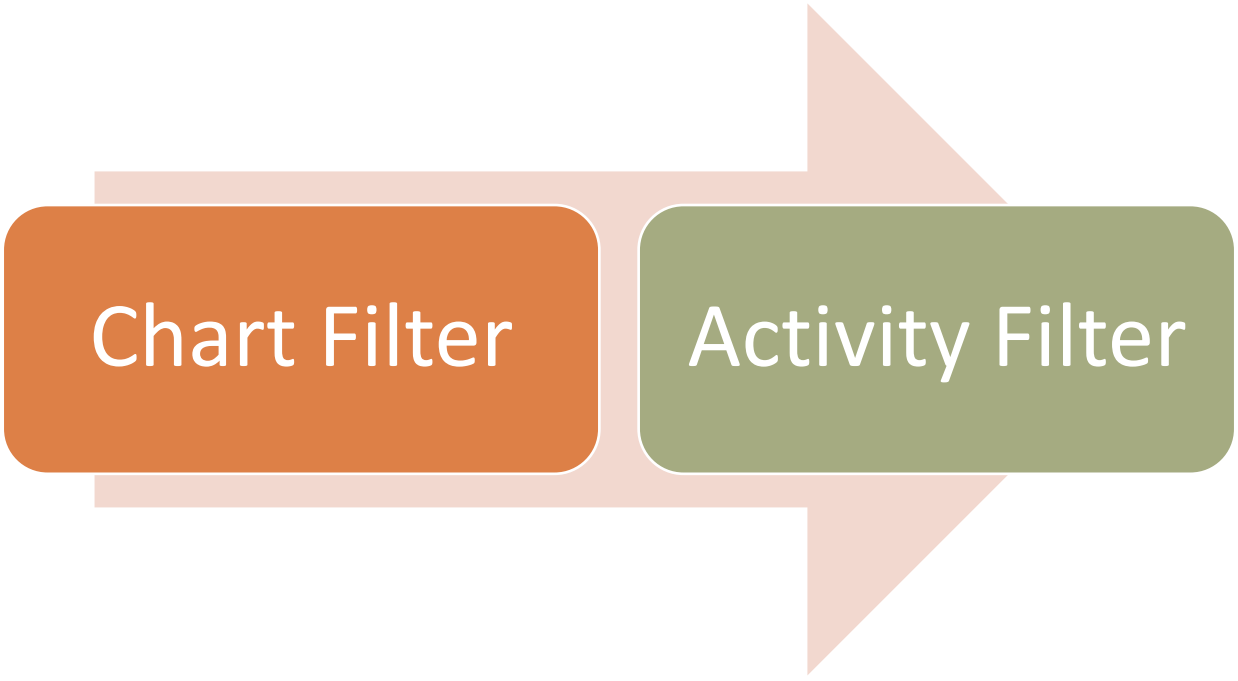
Report Manager allows users to bundle combinations of Global and Local charts into packages known as Activities. This provides the ability to quickly execute a series of relevant charts with one click of a button.

ACTIVITY CREATION

Creating or editing an Activity begins with providing a unique Activity Name. Similar to Chart creation, users have the ability to alter the Owner of the Activity. Global Activities behave the same way as Global Charts. These Global Activities are created in the Central database by a Report Manager Administrator and can be synchronized down to Remote and Local databases for execution or save-as functionality.

Note: Global Activities may only contain Global Charts.

FILTER CRITERIA



In cases where filters are specified, criteria will be applied to all charts. Please note that filter criteria at the Activity level will overwrite Chart level filters.

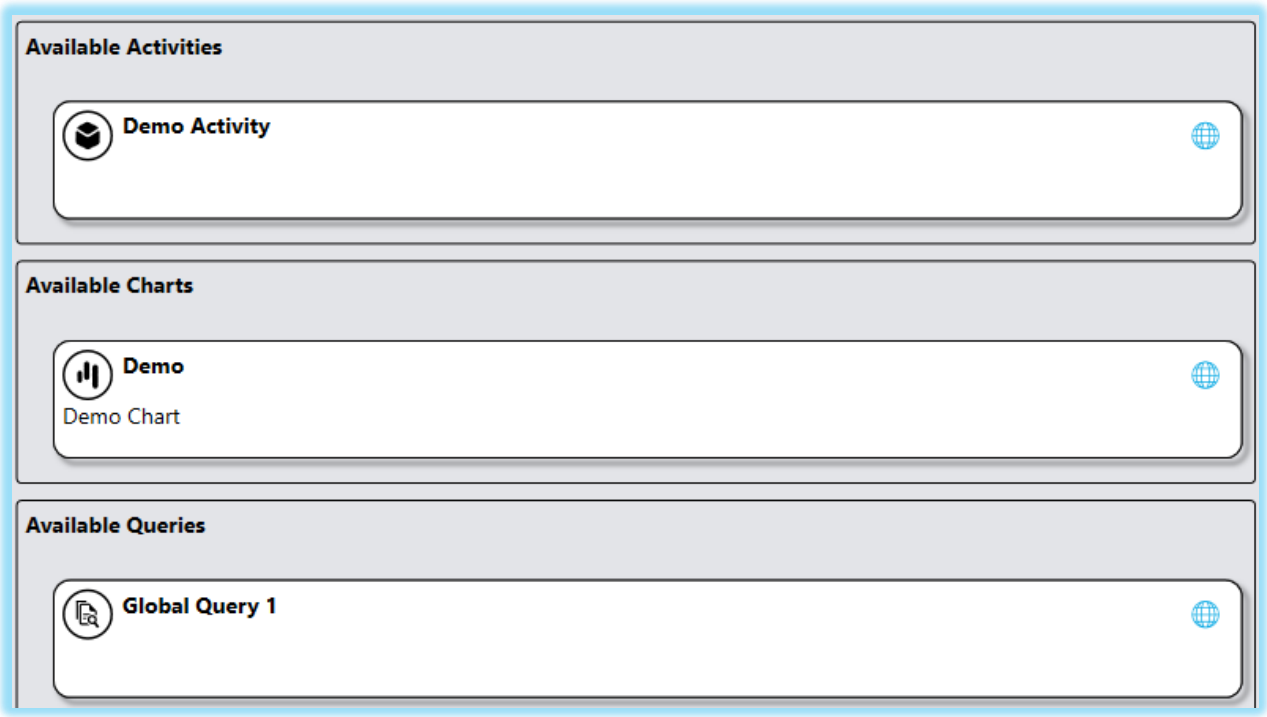
OVERVIEW

Report Manager allows users to bundle combinations of Global and Local charts and activities into packages known as a Report. A report differs from an activity in the sense that users can add multiple Activity packages as well as individual charts, queries, and widgets. Reports are then used to produce a PDF or Word document to save the output to file.

REPORT CREATION

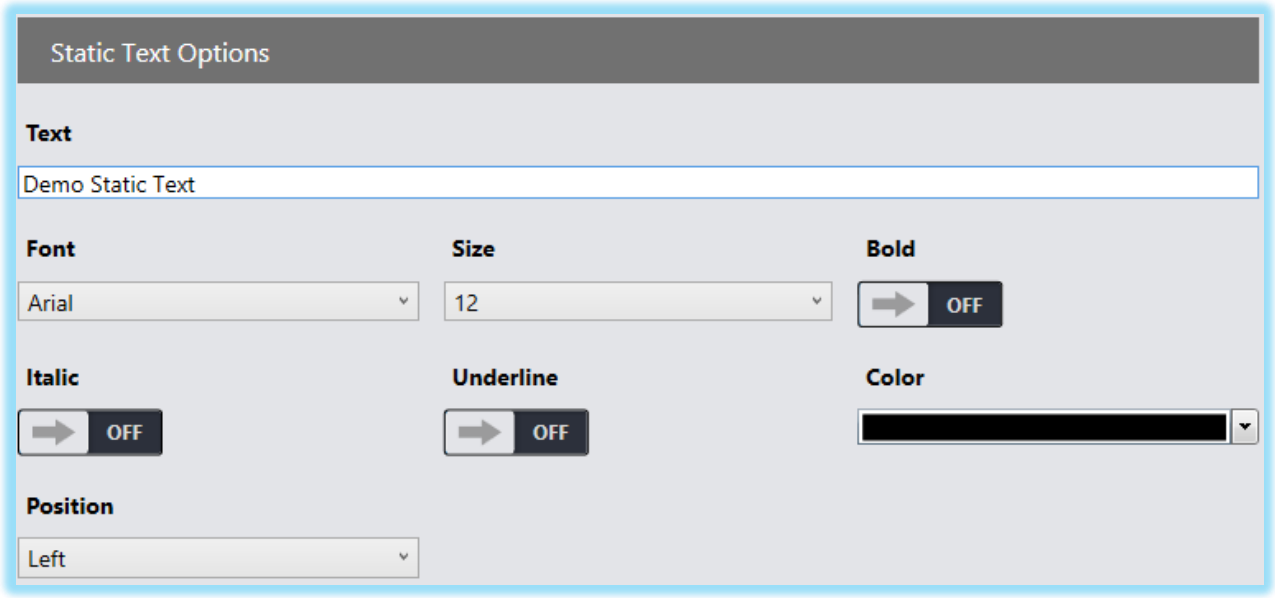
Users are only required to provide a unique Report Name when creating a new Report. All available Activities, Charts, Queries and Widgets are provided to the user to drag and drop to be a part of the Report.

Note: Global Reports may only contain Global Charts, Activities, Queries and Widgets.

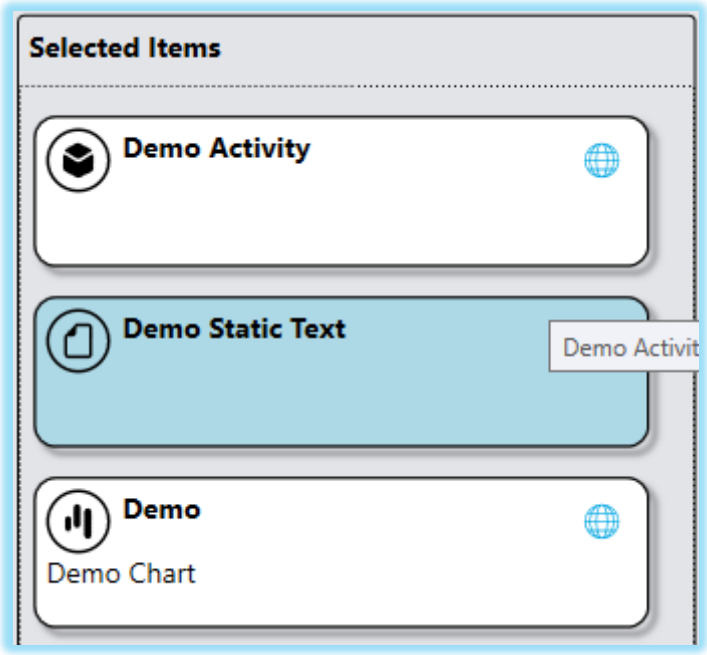


STATIC TEXT

To further customize Report output, users can add and alter Static Text sections to a Report. Static Text can be used to provide explanations, titles, or appendixes to reports.



Static Text objects can be rearranged within a report to appear in specific location by dragging and dropping the Text tile when editing a Report.

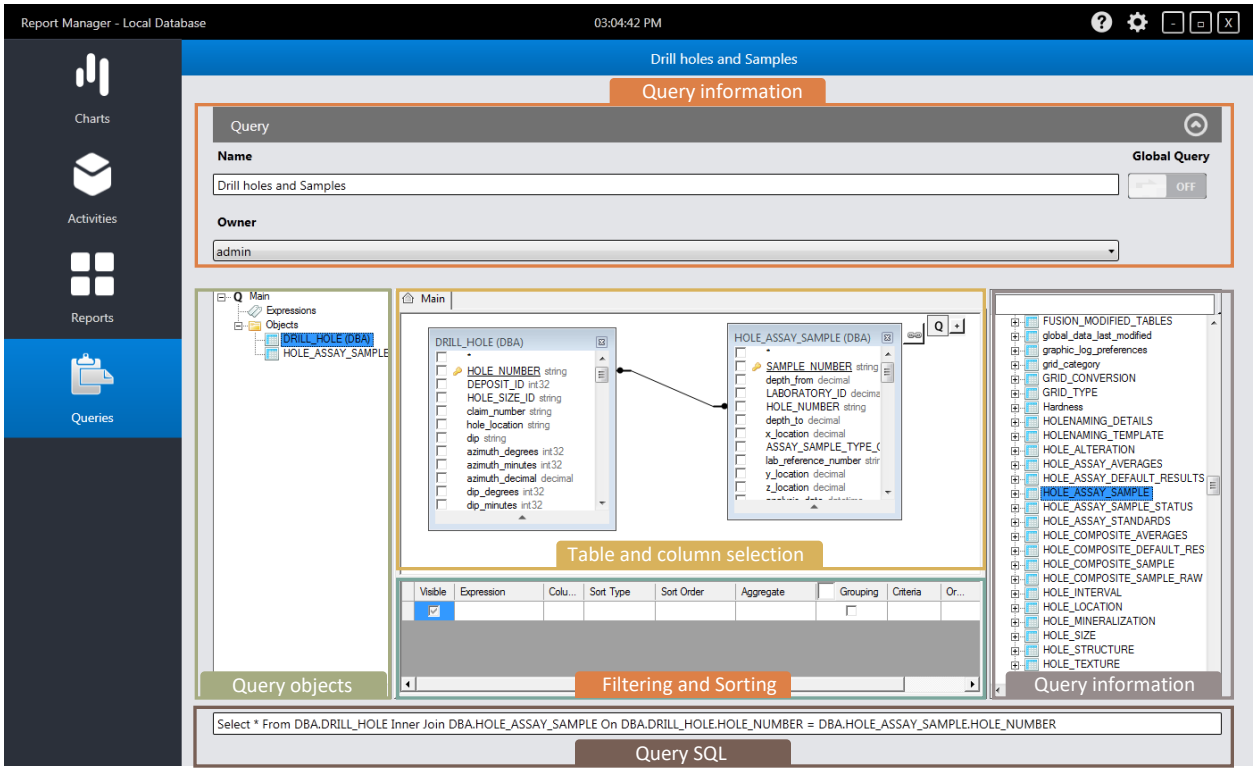


QUERIES

OVERVIEW

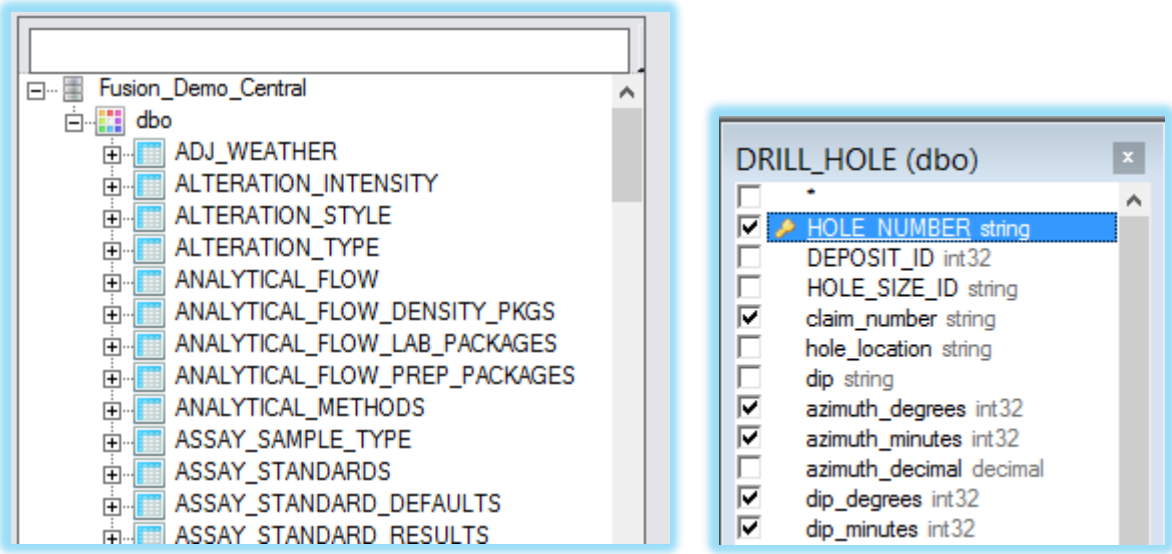
New functionality has been added to allow users to perform the same functionality from QueryBuilder within Report Manager. Queries are a safe way for users to browse the Fusion database and export any needed raw data. Queries can be created as Global and shared among business units or created locally.

MODULE LAYOUT - QUERIES



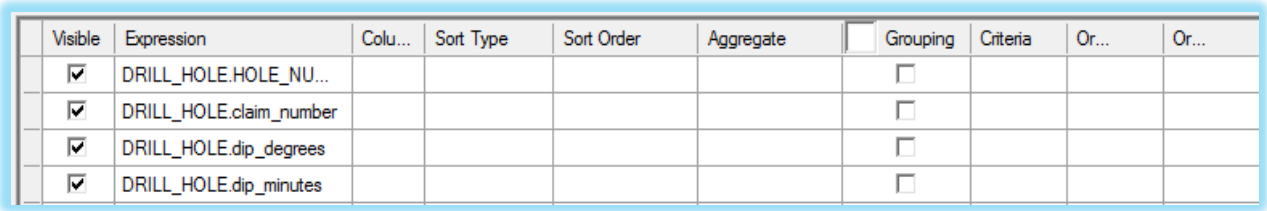
QUERY CREATION

Creating a new query is simple using the intuitive interface. Users drag and drop from a list of available tables in the database. Select columns to include in the output:



PROPERTIES PANE

As tables and columns are added to the query, the properties pane is updated to include a running list of columns to be included in the output. In this Pane, users have the ability to create a column alias, set sorting types, orders, and groupings, as well as filter criteria:



ADVANCED FEATURES

Advanced options are available to users to create more complex queries.

Sub-selects can be achieved by first selecting a table and any desired columns. Then the sub-select can be manually typed in the Criteria field for the targeted column.

DATABASE REPORTS

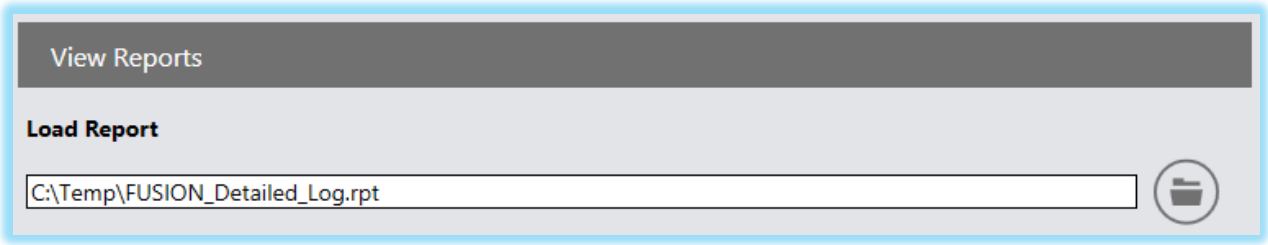
OVERVIEW

Report Manager functionality has been expanded to include the ability to open and execute Datamine or any other custom Crystal Report that is compatible with the GDMS or LIMS databases.

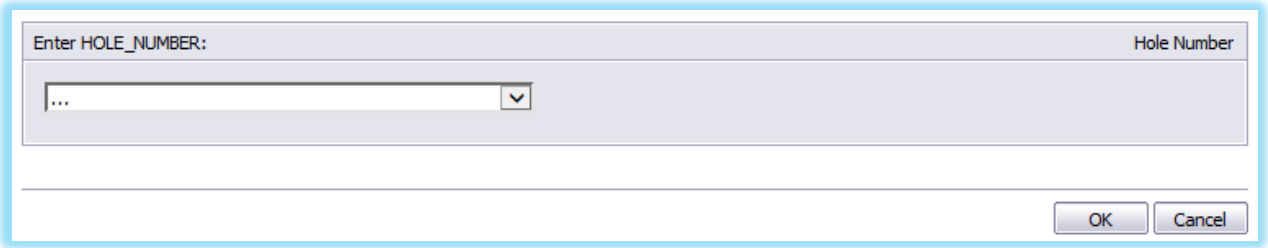
Also, functionality to create new Database Report or view already existing database report has been added. To create new database report “Report Designer” has been added. With the help of Report Designer, user can create report by using existing database and can choose elements and tables to display on the report.

CRYSTAL REPORT VIEWING

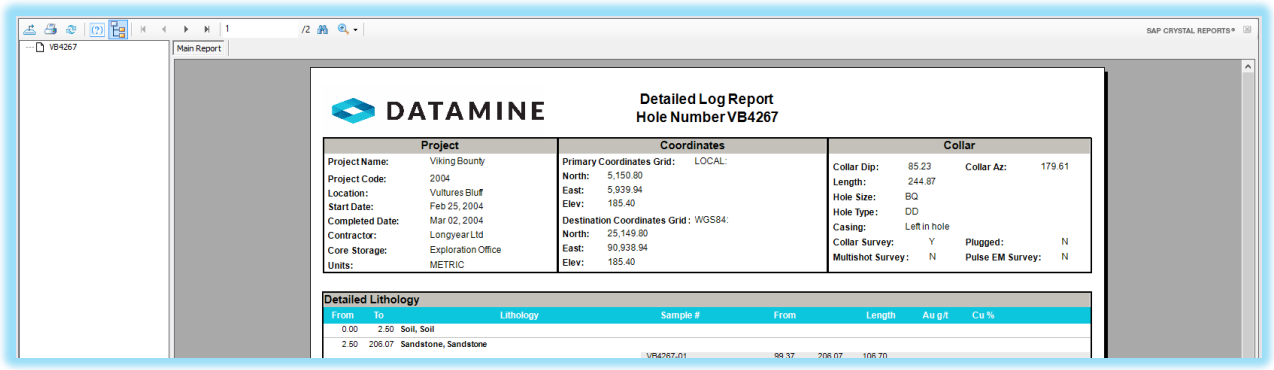
Users can load a single report using the following interface. Report connection information will be automatically populated using the credentials and database information gathered when logged into Report Manager.



The previously opened report will default in this view for quick reporting. Once executed, the user will be shown the report and prompted for any parameter settings:



Once generated, users will have access to the Crystal Reports toolbar to perform commons tasks such as Refresh, Print, Zoom, etc.:



WIDGETS

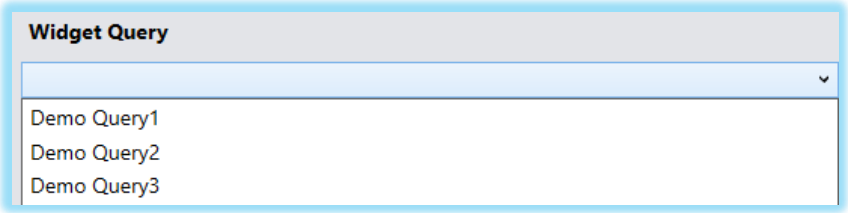
OVERVIEW

Like other objects, widgets can be local or global. Report Manager provides ability to create Query Widgets and Intouch Widgets.

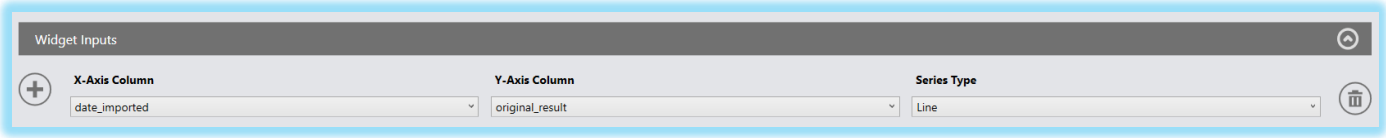
QUERY WIDGETS

Query widgets are combination of queries and charts which provides the ability to create series for each chart and assign columns from the query output to each axis of each series.

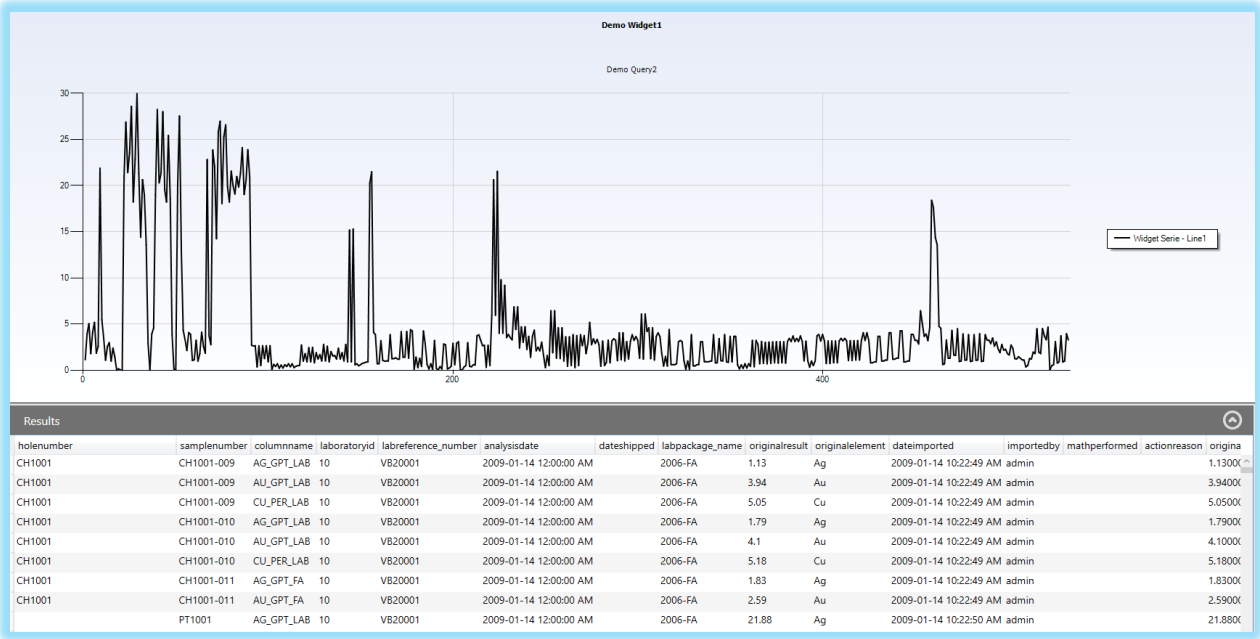
User needs to enter unique widget name, select query from “Widget Query” dropdown:



It will show columns from the selected query:



Choose query columns and generate chart:



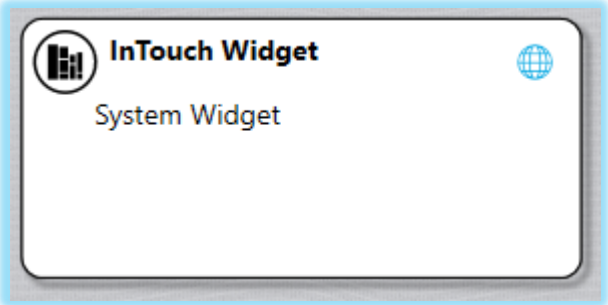
holenumber	samplenumber	columnname	laboratoryid	labreference_number	analysisdate	dateshipped	labpackage_name	originalresult	originalelement	dateimported	importedby	mathperformed	actionreason	origina
CH1001	CH1001-009	AG_GPT_LAB	10	VB20001	2009-01-14 12:00:00 AM		2006-FA	1.13	Ag	2009-01-14 10:22:49 AM	admin			1.1300(
CH1001	CH1001-009	AU_GPT_LAB	10	VB20001	2009-01-14 12:00:00 AM		2006-FA	3.94	Au	2009-01-14 10:22:49 AM	admin			3.9400(
CH1001	CH1001-009	CU_PER_LAB	10	VB20001	2009-01-14 12:00:00 AM		2006-FA	5.05	Cu	2009-01-14 10:22:49 AM	admin			5.0500(
CH1001	CH1001-010	AG_GPT_LAB	10	VB20001	2009-01-14 12:00:00 AM		2006-FA	1.79	Ag	2009-01-14 10:22:49 AM	admin			1.7900(
CH1001	CH1001-010	AU_GPT_LAB	10	VB20001	2009-01-14 12:00:00 AM		2006-FA	4.1	Au	2009-01-14 10:22:49 AM	admin			4.1000(
CH1001	CH1001-010	CU_PER_LAB	10	VB20001	2009-01-14 12:00:00 AM		2006-FA	5.18	Cu	2009-01-14 10:22:49 AM	admin			5.1800(
CH1001	CH1001-011	AG_GPT_FA	10	VB20001	2009-01-14 12:00:00 AM		2006-FA	1.83	Ag	2009-01-14 10:22:49 AM	admin			1.8300(
CH1001	CH1001-011	AU_GPT_FA	10	VB20001	2009-01-14 12:00:00 AM		2006-FA	2.59	Au	2009-01-14 10:22:49 AM	admin			2.5900(
	PT1001	AG_GPT_LAB	10	VB20001	2009-01-14 12:00:00 AM		2006-FA	21.88	Ag	2009-01-14 10:22:50 AM	admin			21.880(

INTOUCH WIDGETS

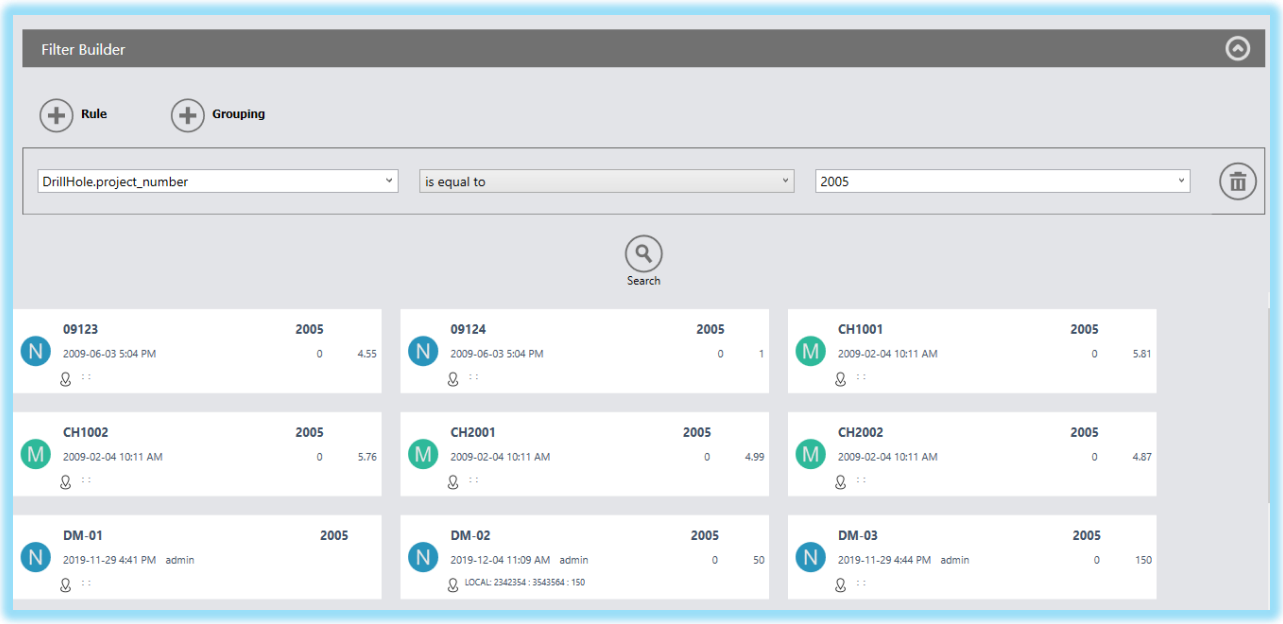
A feature in Report Manager that allows users to create a list of drill holes and select columns for export to InTouch 3D visualizer.

Users can create a quick export for one or more holes. Additionally, they can create and save Widget objects (global and local) and re-run them with the same criteria.

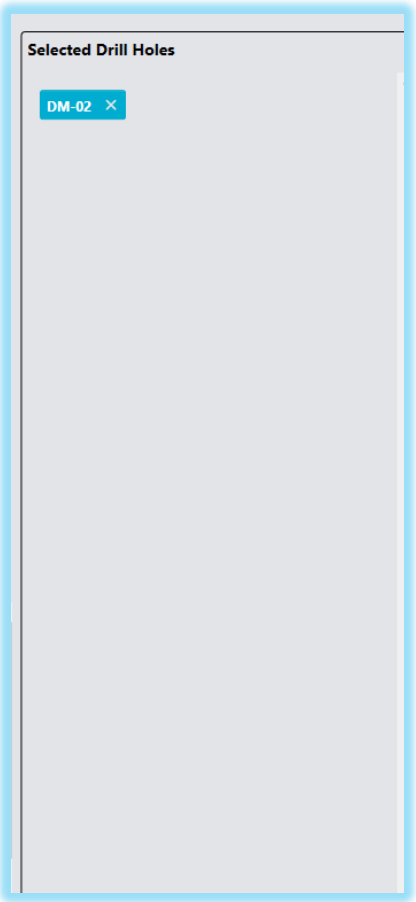
Double clicking on system widget will open a form to add new InTouch Widget:



After entering unique widget name, user can filter drill holes and apply search:



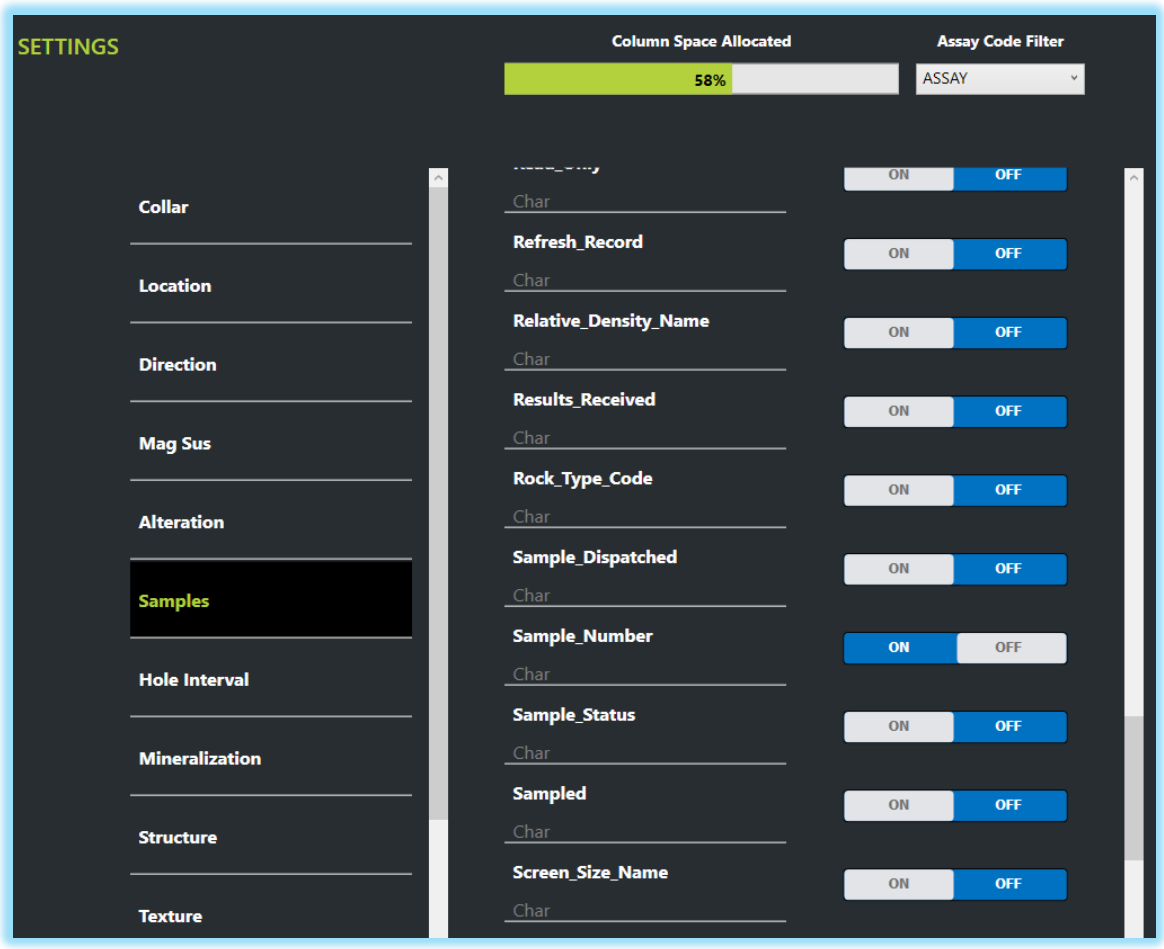
Clicking on drill hole tile will select drill hole(s) to display in Selected Drill Holes section:



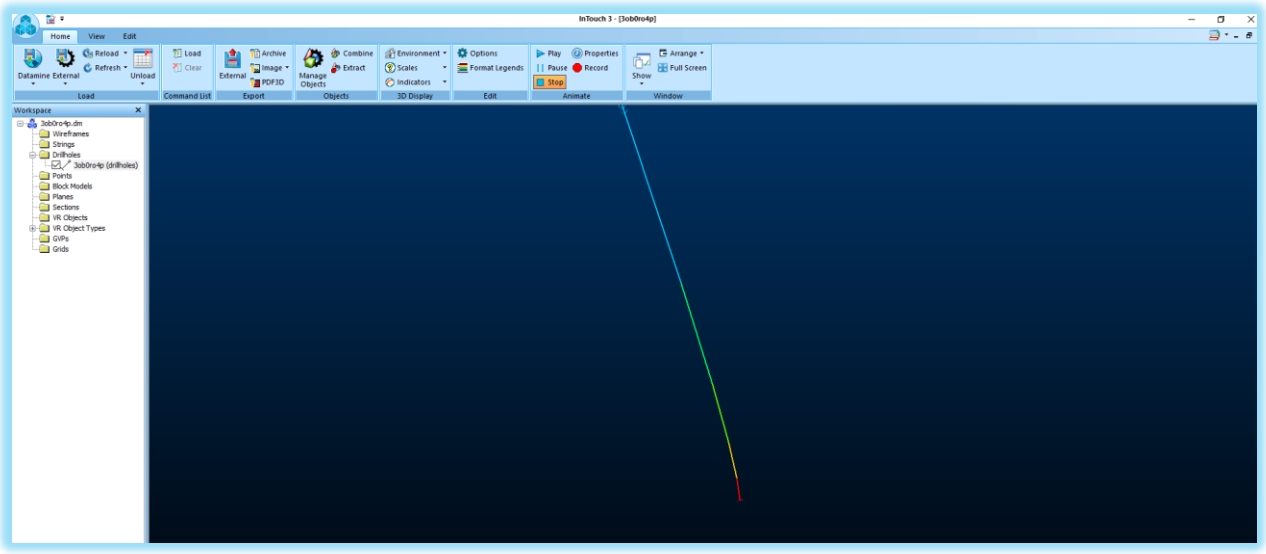
User can turn on option “Positive Dip Upwards” if they log positive dip records upwards otherwise, it will be negative dip downwards by default:

It also provides ability to configure columns for selected drill holes to display in 3D visualizer:

By clicking on Configure, user will be presented with Settings screen where he can choose tables and turn on corresponding columns to display and it also provides ability to choose sample type for hole_assay_sample column:

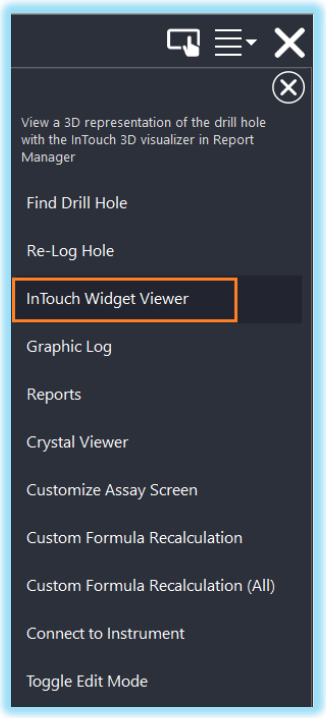


After setting configuration, user can export selected drill holes to Intouch 3D Visualizer:

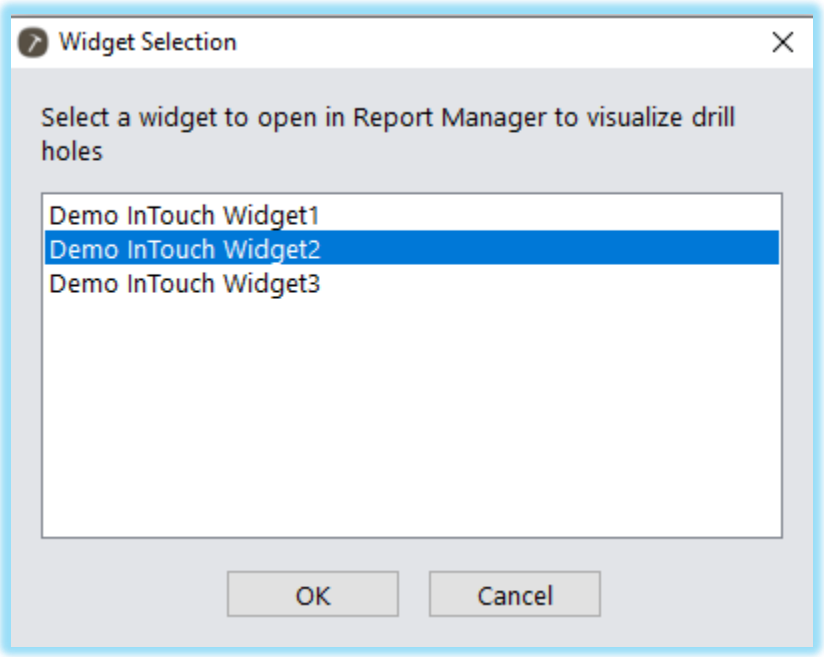


Users need to install Datamine Table Editor separately to view DM file generated in C:\ProgramData\Datamine\GDMS\InTouch.

User also has ability to view InTouch Widgets in DHLogger by accessing “InTouch Widget Viewer” option from menu given on top right corner of Collar screen in Drill Hole module:



Clicking on this option will open window with list of available Intouch widgets in Report Manager:



User can select a widget and hit OK, it will run and open it in 3D InTouch Visualizer.

DASHBOARDS

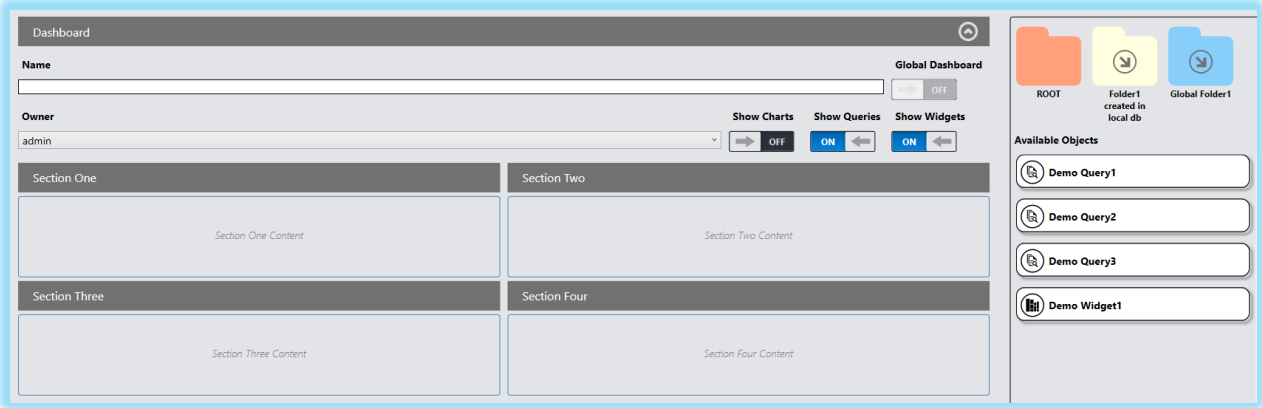
OVERVIEW

User can select from a pre-defined list of layouts stored in the database. Also, user has ability to create, edit, delete, and view reporting dashboards like other objects in Report Manager.

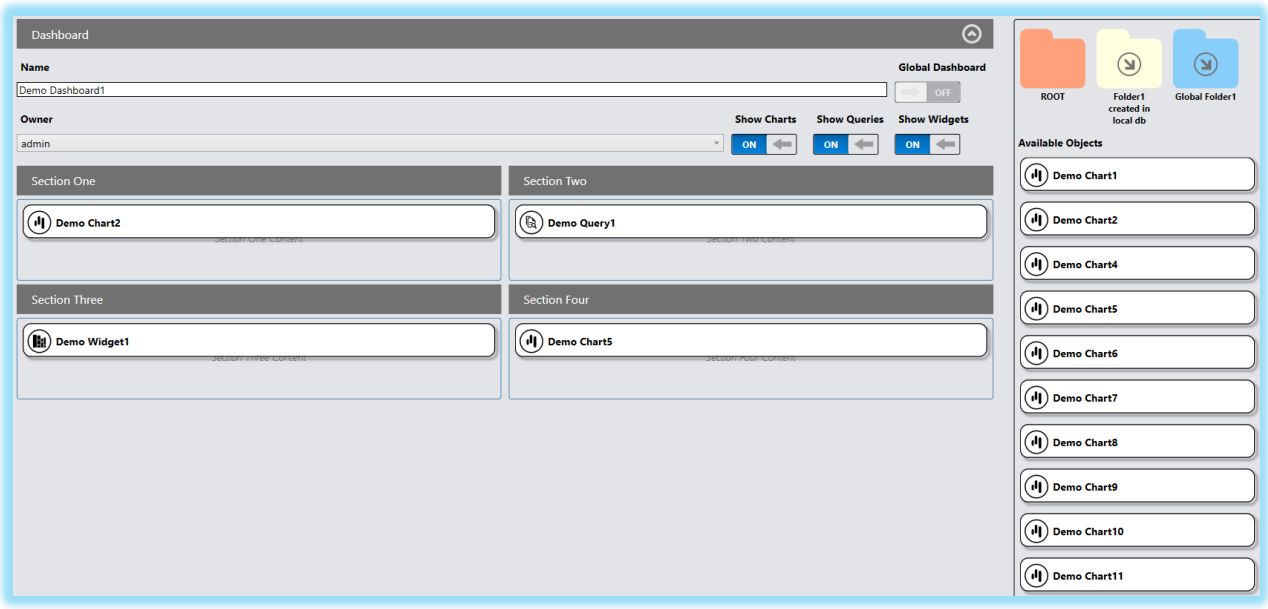
CREATE DASHBOARD

Click on (“+”) will open list of layouts available for Dashboards. User can click on any of the layout to choose it:

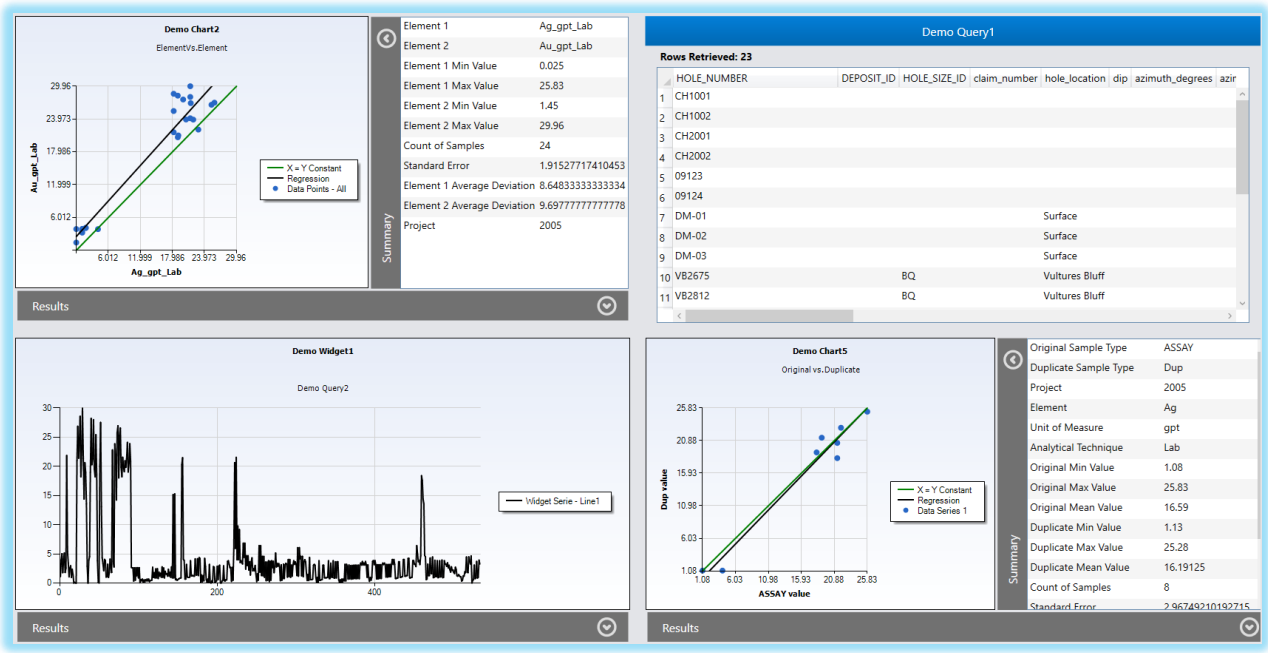
After that, user will be presented with following window where he can enter “Dashboard Name”, turn on “Show Charts”, “Show Queries” and “Show Widgets” options for the objects that he wants to see in “Available Objects” section:



Then, he can drag and drop available objects to different sections that he wants to display on Dashboard:



And, then, he can run this Dashboard like other objects in Report Manager:



EXPORTS

OVERVIEW

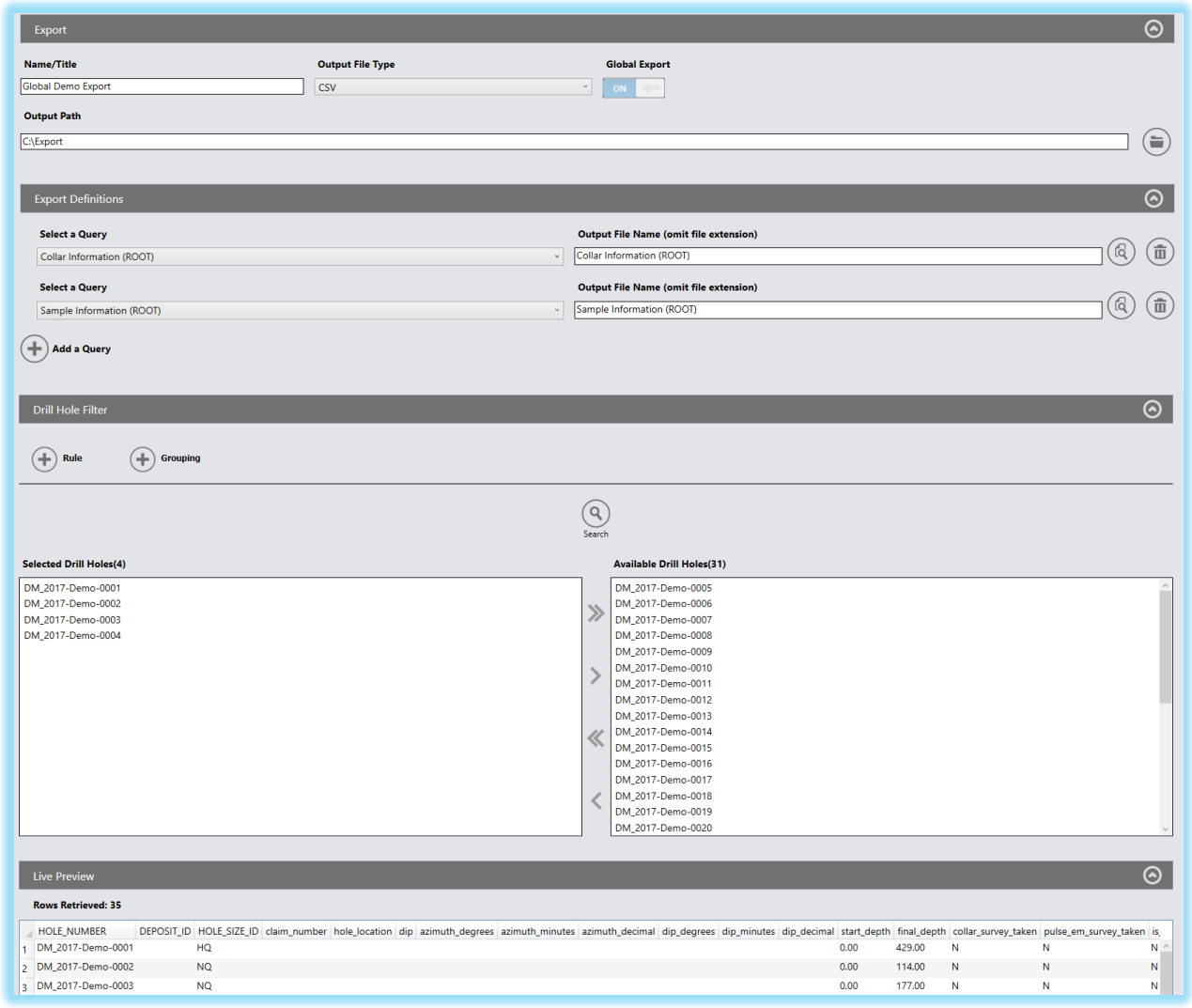
It's a feature available in RM which allow users to export data with the help of queries available in Report Manager. By using this feature, users can create custom exports and view them in dhlogger and sample station to export data.

Like other objects in Report Manager, exports can be created, edited, and deleted. Exports can be local and global and only global export can be used to create custom export.

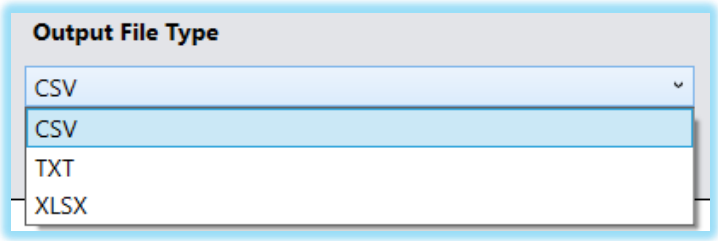
Note: Global Exports may only contain global queries.

CREATING EXPORT

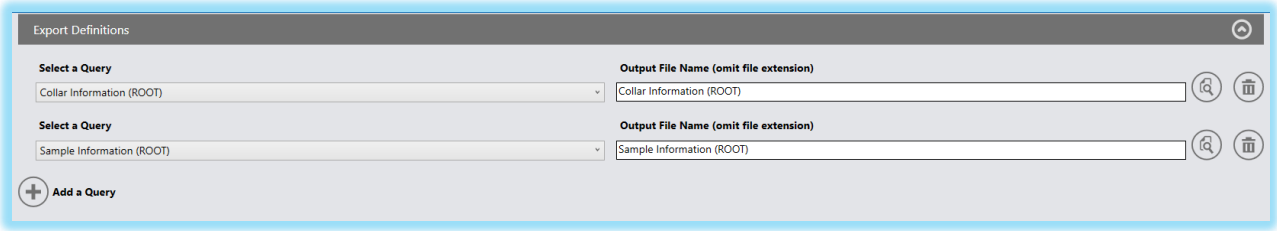
Clicking on ("+") will open a form to create export where user can enter export name, file type, output path and query.



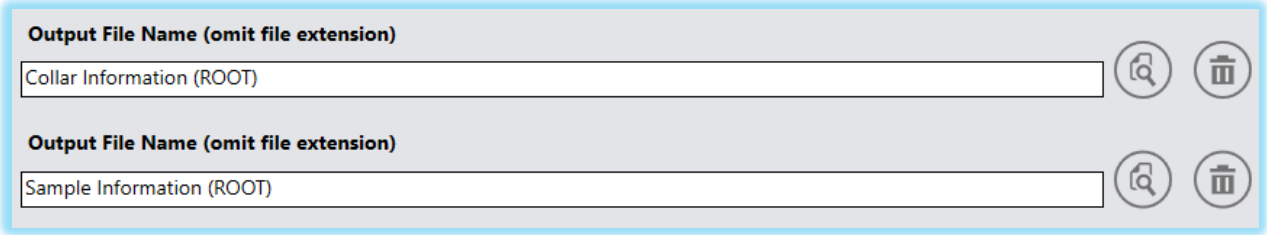
Users can export data in CSV, TXT or XLSX format and choose location in “Output Path” where they want to export data.



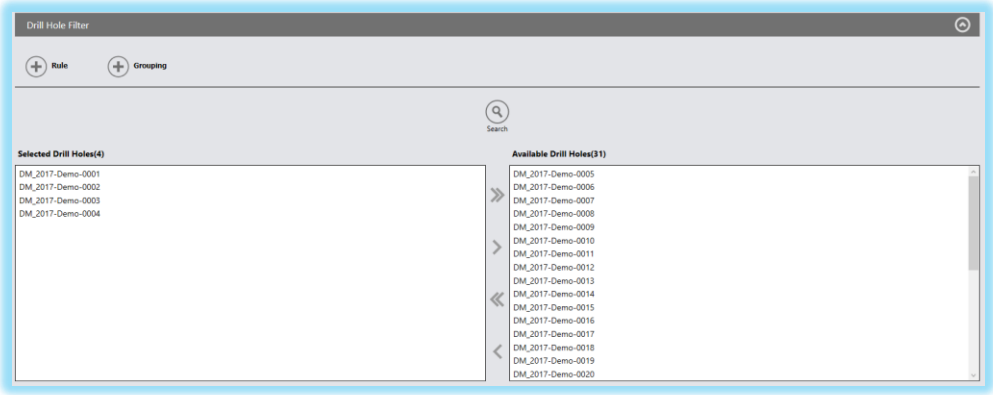
In Export Definition, Users can choose queries available in Report Manager and they can also choose multiple queries. And, picklist for query also shows the folder name to which query belongs:



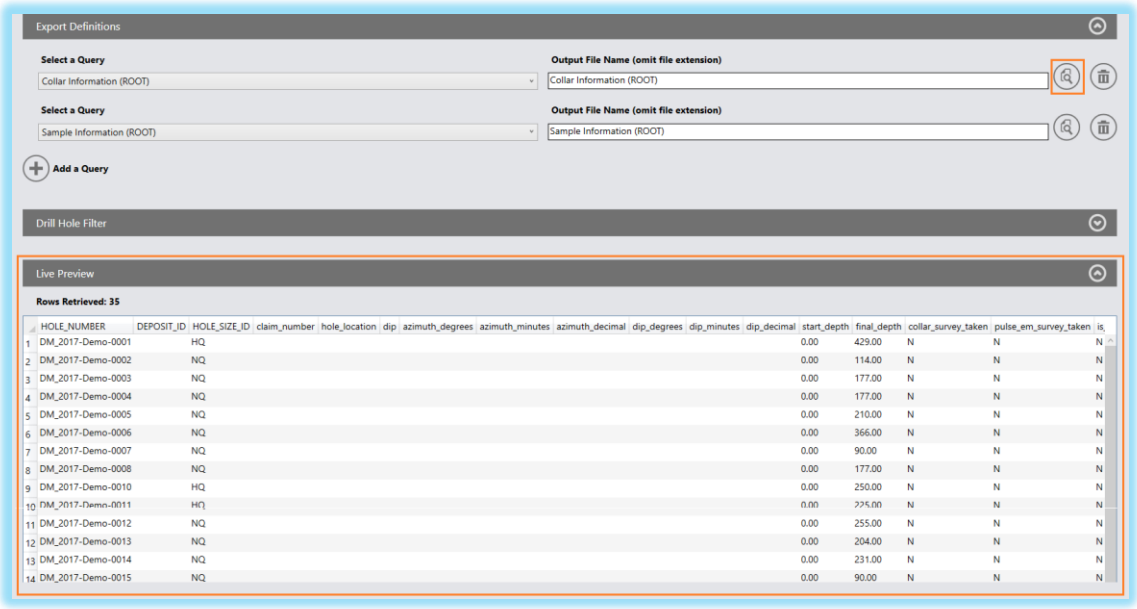
Output File Name will be filled automatically when user chooses a query. It enters the same name of “Output File Name” as of query. User can change it if he wants but he does not need to enter file extension here:



User can also apply filter on drill holes that he wants to export:



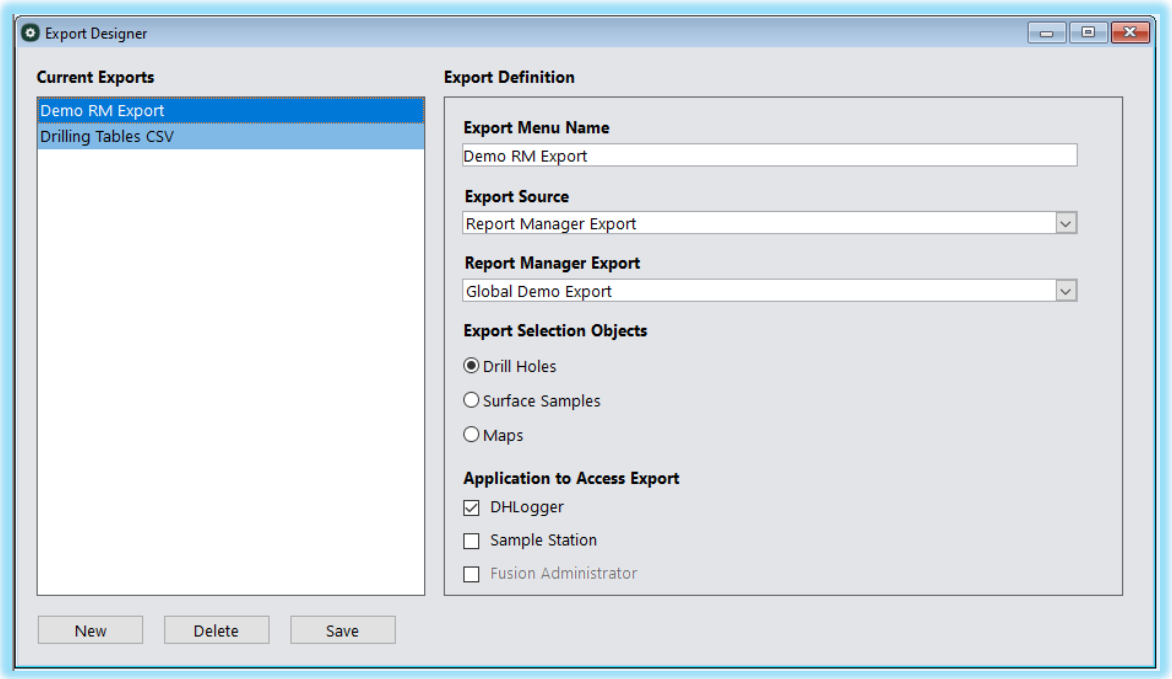
User can also view data related to query in “Live Preview” section by hitting view icon:



	HOLE_NUMBER	DEPOSIT_ID	HOLE_SIZE_ID	claim_number	hole_location	dip	azimuth_degrees	azimuth_minutes	azimuth_decimal	dip_degrees	dip_minutes	dip_decimal	start_depth	final_depth	collar_survey_taken	pulse_em_survey_taken	is
1	DM_2017-Demo-0001		HQ										0.00	429.00	N	N	N
2	DM_2017-Demo-0002		NQ										0.00	114.00	N	N	N
3	DM_2017-Demo-0003		NQ										0.00	177.00	N	N	N
4	DM_2017-Demo-0004		NQ										0.00	177.00	N	N	N
5	DM_2017-Demo-0005		NQ										0.00	210.00	N	N	N
6	DM_2017-Demo-0006		NQ										0.00	366.00	N	N	N
7	DM_2017-Demo-0007		NQ										0.00	90.00	N	N	N
8	DM_2017-Demo-0008		NQ										0.00	177.00	N	N	N
9	DM_2017-Demo-0010		HQ										0.00	250.00	N	N	N
10	DM_2017-Demo-0011		HQ										0.00	225.00	N	N	N
11	DM_2017-Demo-0012		NQ										0.00	255.00	N	N	N
12	DM_2017-Demo-0013		NQ										0.00	204.00	N	N	N
13	DM_2017-Demo-0014		NQ										0.00	231.00	N	N	N
14	DM_2017-Demo-0015		NQ										0.00	90.00	N	N	N

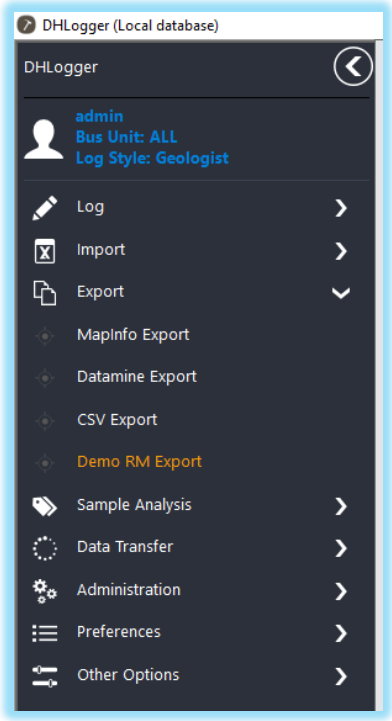
CREATING CUSTOM EXPORT

To create custom export, user needs to create global export first. After creating global export, custom export can be created with help of “Custom Export Designer” available in Fusion Administrator:

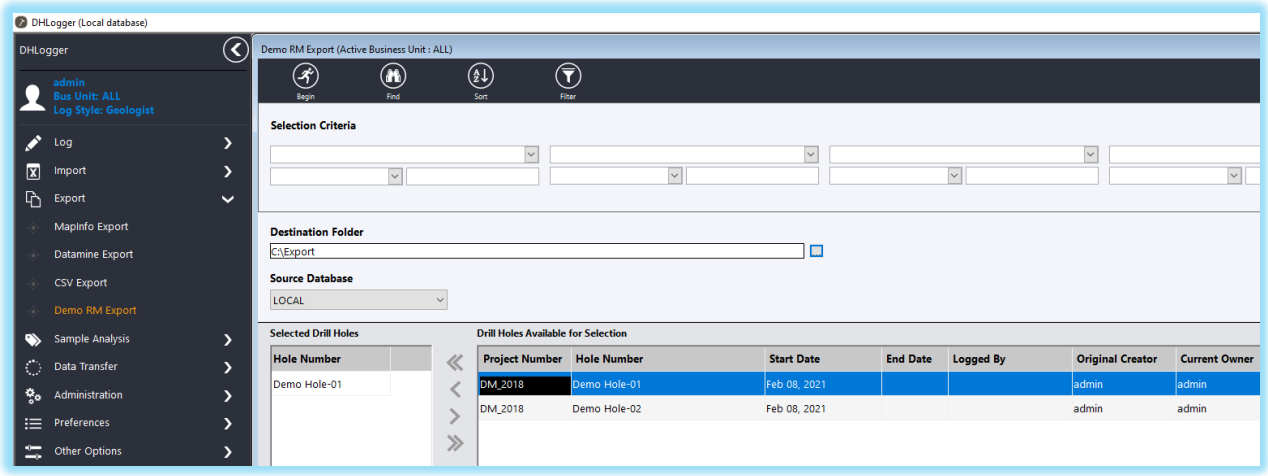


After creating export in Fusion Administrator, users can log in to dhlogger or sample station app for which export has been created.

Custom export will be available under “Export” menu option on left toolbar.



And, data can be exported like other exports in dhlogger and sample station.



SCHEDULED JOBS

OVERVIEW

Scheduled Jobs give ability to include multiple reports and dashboards in each job. These jobs can be run weekly or daily at time specified by user. It will email the output of each Report and Dashboard in the job to a specified list of email recipients.

SERVICE

Users need to create service first for a database for which they want to run a job. To create a service, they need to select database and enter username/password for it. And, users need to start “Datamine Report Scheduler” windows service manually for the first time:

CREATE JOB

Job

- **Name**: A unique name to identify the Job
- **User Name**: Username for the database
- **Password:** Password for the database
- **Is Enabled**: Job will be turned on by default. Users can turn it off if they want to enable it later.

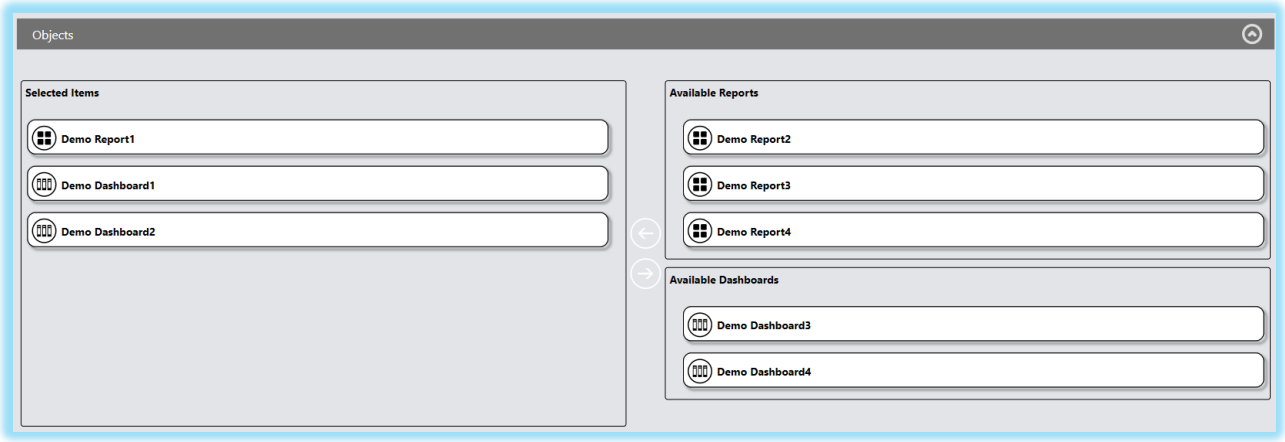
Schedule Settings

- **Run daily/Weekly:** Users have the ability to choose if they want to run job daily or weekly.
- **Start time:** Time to start job
- **End Time:** It's turned off by default. But, It can be turned on if End time need to set.
- **Enable Trace Mode:**
- **Log To File:** By default, it will be turned off. It can be turned on and user can choose location where he wants to save log file.

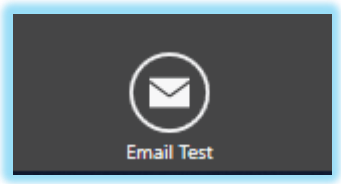
Email Settings

- **From Email/User Name:** Email id/User Name of Sender
- **Password:** Password of the entered Email id/User name
- **SMTP Host Server:** Address of SMTP Server
- **Port (default = 25):** Port number of sender's email id
- **Email Subject:** Enter Subject of the email
- **SSL:** Turn it on if sender's email id is using SSL
- **Attach Log:** It can be turned on if user wants to attach log with email.
- **Report File Type:** Users have the ability to choose Report File Type. It can be sent either in PDF or Word file.
- **Email Addresses (one per line):** Email addresses of Recipients

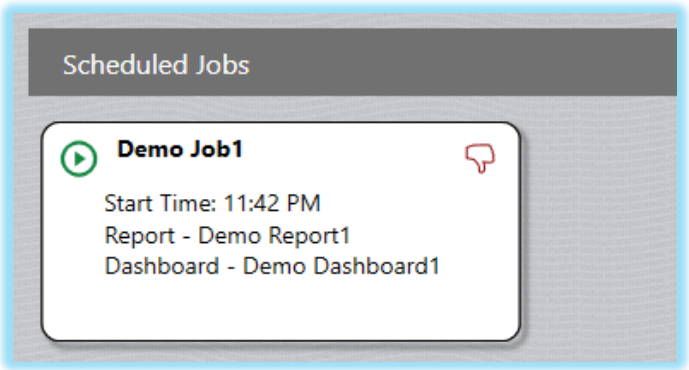
User can select “Available Reports” and “Available Dashboards” that he wants to send to recipients:



User can save all this information entered and can test email settings by sending Test Email:



By looking at the job on listing page, user can see status of the job if it has been executed successfully or not:



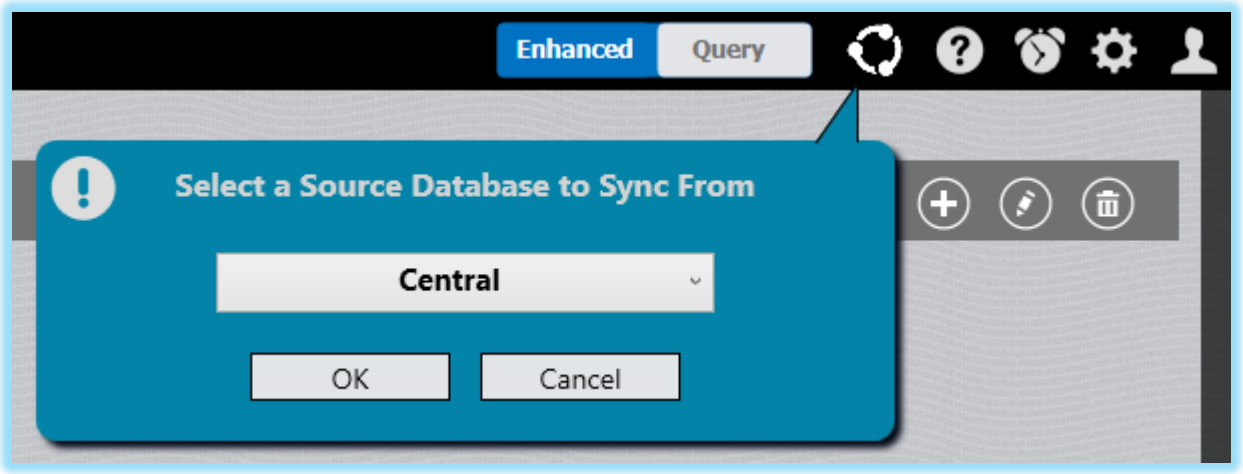
SYNC DATABASES

OVERVIEW

This feature provides ability to sync global objects available in central with local db. Global objects do not require synchronization with dhlogger to appear against local. They can be synced from Report Manager now.

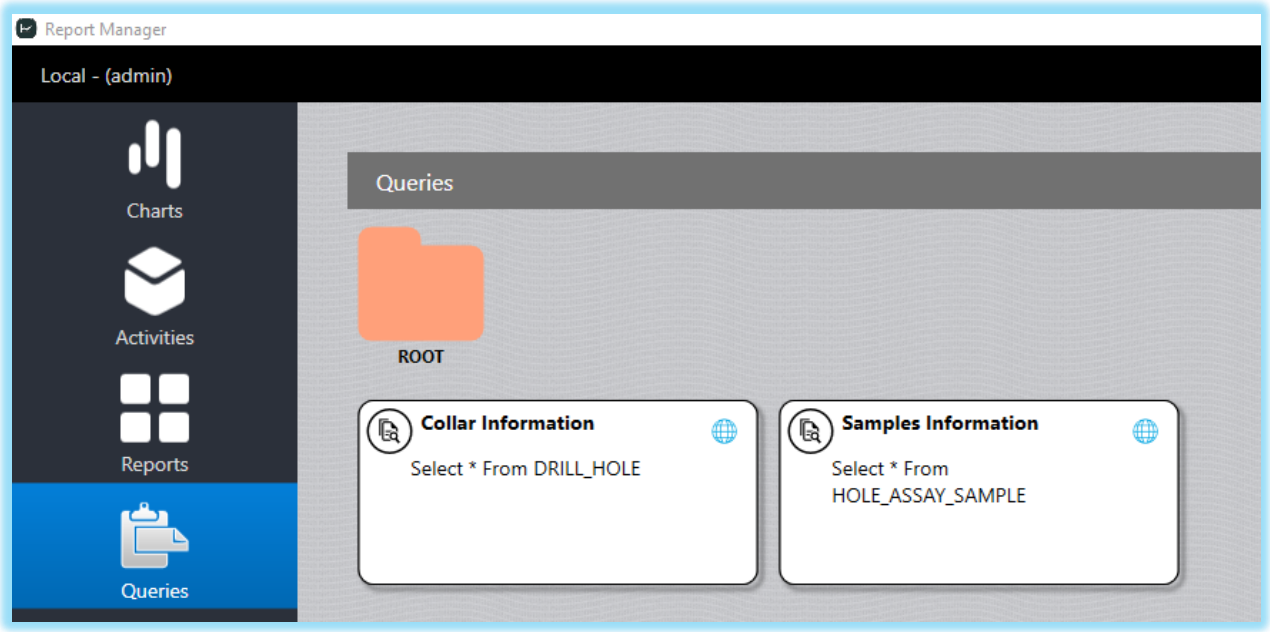
SELECTING SOURCE DATABASE

Source database can be selected by clicking on sync icon which is available at the top toolbar on right side. When user clicks on sync icon, a pop up will open and user needs to select database with which global objects needs to be synced:



When user hits “OK” after choosing db, it syncs global objects in local with selected db and shows message that “Global objects have now been synchronized between two databases.”:

After syncing dbs, it will show global objects retrieved from central.


Report Manager
Local - (admin)
Charts
Activities
Reports
Queries
Queries
ROOT
Collar Information
Select * From DRILL_HOLE
Samples Information
Select * From
HOLE_ASSAY_SAMPLE