

**Oracle® Enterprise Data Quality for Product Data**

Governance Studio Reference Guide

Release 11g R1 (11.1.1.6)

**E29131-02**

February 2013

Oracle Enterprise Data Quality for Product Data Governance Studio Reference Guide, Release 11g R1  
(11.1.1.6)

E29131-02

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# Preface

This reference guide is intended to explain the basic capabilities of the Oracle Enterprise Data Quality for Product Data Governance Studio.

To understand all of the advanced features presented, you must use this reference guide in conjunction with the Oracle Enterprise Data Quality for Product Data documents listed in "[Related Documents](#)" on page 2-viii.

Review the following Oracle Enterprise Data Quality for Product Data documentation prior to the use of this manual is recommended:

- *Oracle Enterprise Data Quality for Product Data Knowledge Studio Reference Guide*
- *Oracle Enterprise Data Quality for Product Data Application Studio Reference Guide*

## Audience

You should have a basic understanding of the DataLens Technology, including the functionality of the Oracle Enterprise Data Quality for Product Data Knowledge Studio.

This document is intended for all users of the DataLens Technology, including:

- Business Analysts
- Subject Matter Experts (SMEs)
- IT Administrators
- Application/Solution Owners

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## Related Documents

For more information, see the following documents in the documentation set:

- The *Oracle Enterprise Data Quality for Product Data Getting Started Guide* provides information about how to get started with EDQP and use the Application Launch Pad to start client applications.
- The *Oracle Enterprise Data Quality for Product Data Application Studio Reference Guide* provides information about creating and maintaining Data Service Applications (DSAs).
- The *Oracle Enterprise Data Quality for Product Data AutoBuild Reference Guide* provides information about creating an initial data lens based on existing product information and data lens knowledge.
- The *Oracle Enterprise Data Quality for Product Data Knowledge Studio Reference Guide* provides information about creating and maintaining data lenses.
- The *Oracle Enterprise Data Quality for Product Data Services for Excel Reference Guide* provides information about creating a DSA based on data contained in a Microsoft Excel spreadsheet.

See the latest version of this and all documents in the Oracle Enterprise Data Quality for Product Data Documentation Web site at

[http://docs.oracle.com/cd/E35636\\_01/index.htm](http://docs.oracle.com/cd/E35636_01/index.htm)

## Conventions

The following text conventions are used in this document:

<b>Convention</b>	<b>Meaning</b>
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, text that you enter, or a file, directory, or path name.
<b>monospace</b>	Boldface, monospace type indicates commands or text that you enter.

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# Introduction

The Oracle Enterprise Data Quality for Product Data (EDQP) Governance Studio is a reporting and graphing application that streamlines the analysis of results from the Application Studio Data Service Application (DSA) job runs. You can create a Governance Studio project to create reports on data quality, analyze transformed data, email records to coworkers, and output the results to a file. The remediation capabilities of the Governance Studio allows you to enrich data by filling in missing category specific attributes assisted by a list of value (LOV) dialog box, the AutoSuggest feature, as well as manually entering missing information.

## Welcome to the Governance Studio

This guide explains the features and functionality delivered in the Governance Studio and provides examples of how you might use them to build your own projects. These examples are based on a set of use cases to demonstrate Governance Studio features. Because Governance Studio jobs reflect the underlying DSA, it is possible to create many types of jobs to meet the needs of an individual project.

## Convenience

The Governance Studio offers a convenient and easy-to-use interface for launching jobs, managing processes, reporting results, and analyzing and correcting data returned from Application Studio jobs, as well as analyzing all output data created. You can schedule and run jobs synchronously or asynchronously, generate reports, do trend analysis, and identify missing attributes with ease and report discrepancies to coworkers.

## Flexibility

The Governance Studio provides a flexible, user-friendly interface for:

- Running DSA jobs
- Reviewing the output of DSA Jobs
- Remediating the output using AutoSuggest LOV or manual intervention
- Saving output data

## Benefits

The benefits of using the Governance Studio are described in the following sections.

### **Improve Business Communication**

Data lens reports can help you meet your business goals. Use a data lens to:

- Demonstrate value and benefit (ROI) quickly and effectively.
- Enable you to visualize results and readily 'connect the dots'.

### **Increase the Value of Your Reports**

The Governance Studio enables highly effective reporting in real time using high quality graphical images that reflect the quality of your data along a set of parameters you define to enable downstream processing effectively or communication about your data.

The Governance Studio graphically enhances results from the output of any DSA template and allows you to create and leverage DSA templates for one-to-one alignment with business processes, such as:

- General purpose product data assessment
- Attribute extraction
- Matching data records between existing and legacy data sources
- Proposing alternatives based on search criteria

### **Maximize Efficiency & Scalability**

The Governance Studio leverages Java Web Start to enable you to:

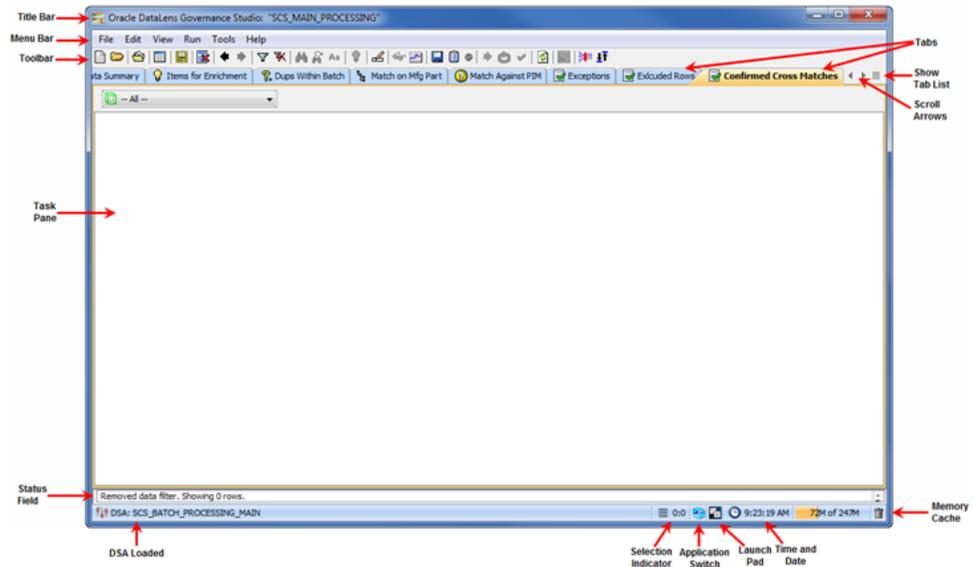
- Launch the Governance Studio application from a link on a web page
- Update software to the current version automatically
- Seamlessly integrate with Windows or Linux operating system (OS)

## **Starting the Software**

You start your Oracle DataLens Server, and then use the Welcome Launch Pad to start the Governance Studio by clicking the **Governance Studio** button. For details, see *Oracle Enterprise Data Quality for Product Data Getting Started*.

## **Understanding the Client Workspace**

The Governance Studio graphical user interface (GUI) provides the client workspace used to run DSA jobs, view and work with the results.



This section describes the following areas of the client workspace:

- ["Frame Functionality"](#) on page 1-3
- ["Menu Commands and the Toolbar"](#) on page 1-4
- ["Tabs"](#) on page 1-9
- ["Task Panes"](#) on page 1-14

## Frame Functionality

The Governance Studio client workspace frame contains useful information and interactive functions including the following:

### Title Bar

Indicates the current application and open project.

### Status Field

Provides the status of the project one line at a time. Though this field cannot be resized, the scroll arrows on the right-hand side can be used to view all available status information. The status data does not change based on the selected tab; rather it is a compilation of all data.

### Loaded DSA

Indicates the currently loaded DSA that is used for transforming the project data.

### Selection Indicator

Indicates the number of the row currently selected and the total number of rows available for selection.

### Application Switch

Returns you to the last Enterprise DQ for Product application used.

### Oracle Enterprise Data Quality for Product Data Launch Pad

This button opens the Oracle Enterprise Data Quality for Product Data Launch Pad so that you can select other applications.

**Time and Date**

The time is displayed and when you hover over this field, the date displays.

**Memory Cache**

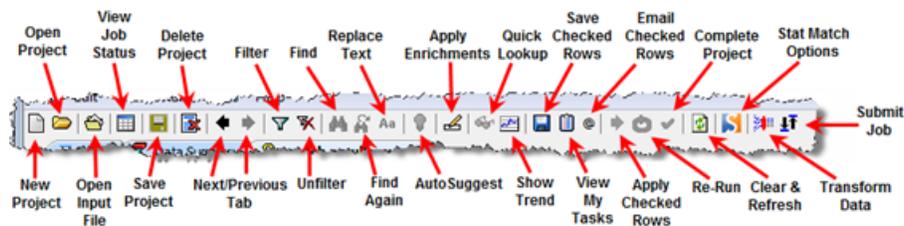
Indicates the amount of memory cache currently used and the total amount allowed. You can dump the memory cache by clicking on the trash can icon in this interactive field.

**Note:** This feature is only used for system diagnosis and should not be used unless requested by the support team.

**Menu Commands and the Toolbar**

The Governance Studio toolbar allows easy access to the most frequently used Governance Studio functions. Though the set of toolbar buttons remains the same during UI operation the buttons are enabled or disabled based the current state of the interface and the options set. Buttons displayed with shades of gray are disabled. Full-color buttons are enabled. All toolbar buttons are standard push buttons, requiring a single click of the mouse to activate.

The following briefly describes the toolbar buttons from left to right.



The Governance Studio GUI menus provide access to most functions. All of the buttons on the toolbar have a corresponding menu command, which are indicated on each menu with the button icon displaying adjacent to the command. The set of menu commands remains the same during the GUI operation.

Menu commands are enabled or disabled based on the current state of the data lens; commands that are dimmed are unavailable. Some menu commands perform functions that are more complex and are indicated by an ellipsis symbol (...). These commands open dialog boxes to collect information needed to complete the requested function.

**Tip:** The tooltips appear when you rest your mouse pointer on a menu item, button, tab, icon, or similar content.

The following section briefly describes each of the Governance Studio menu commands and corresponding buttons.

## File Menu

### New Project

Creates a new Governance Studio project for building reports about your enterprise data. These project files are stored in one of the following directories:

C:\Documents and Settings\username\Application Data\DataLens\data\ams

or

C:\Users\Username\AppData\Roaming\DataLens\ams

### New Project From...

Creates a new project using an existing project file as the basis and closes any open project.

### Open Project

Opens an existing project file and closes any open project file.

### Open Project From...

Opens an existing project file and allows you to rename it using the same base project name with an added unique suffix (for example, V2.)

### Open Project - No Results

Opens an existing project file though does not display data processing results in any Output tabs. This feature allows you to open a project that previously exceeded the maximum memory allocation and so could not complete opening. For more information, see "[Opening Projects Without Results](#)" on page 2-9.

### Recent Projects

Provides a list of recently opened projects so that you can quickly select a project to open.

### Open Input File

Allows you to select the data file for the current project. For more information, see "[Retrieve the Input Data](#)" on page 2-6.

### Close Project

Closes the open project file.

### Save Current Project

Saves all project changes to disk.

### Save Rows

Saves only rows that have been checked; does not save selected rows. The checked rows are automatically saved to a Microsoft Excel spreadsheet in the datalens directory where the project resides. The name of the file is based on the name of the tab and is stored in the datalens directory where the project resides. You can change the file name or save location in the dialog provided. All files are saved with the .xls extension.

### Clear Results & Refresh

Allows you to refresh, or remap, a modified DSA to the source data to ensure that all DSA changes are reflected in the current project.

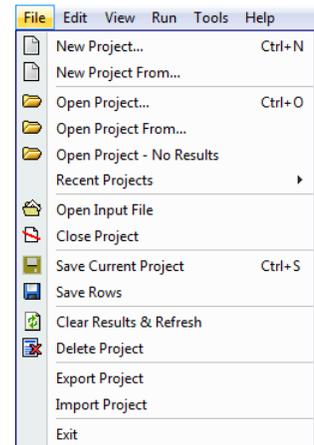
If you open your project and do not refresh it, the Governance Studio will prompt you to do so to ensure consistency.

### Delete Project

Deletes the open project. You are no longer able to edit this project although you are no longer able to edit this project, it can be modeled for use as a new project using the **New Project From...** option.

### Export Project

Exports the project. For more information, see "[Exporting and Importing Projects](#)" on page 3-7.



### Import Project

Import the project. For more information, see ["Exporting and Importing Projects"](#) on page 3-7.

### Exit

Exits the Governance Studio application; a prompt is given to save any changes that were made.

## Edit Menu

### Find

Allows you to specify a search string using a regular expression and attempts to find it.

### Find Next

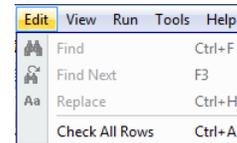
Repeats the last search defined by a **Find** operation.

### Replace

Allows you to specify a search string and a replacement string, and then attempts to replace the text from the **Source** tab.

### Check All Rows

Selects all rows in the table on the active tab. Only active when the selected tab contains a table with the Check mark column.



## View Menu

### View Job Status

Allows you to view the status of all jobs.

### View My Tasks

Allows you to view any tasks that are scheduled or have run. For more information, see ["View My Tasks"](#) on page 5-14.

### Filter

Allows you to filter the displayed data based on text or a text pattern. The filter operation applies only to the currently selected tab. Only the rows that match the text entered in the **Filter** dialog are displayed in the table.

### Un-Filter

Removes the filter applied to the selected tab, thus displaying all of the data.

### View Statistics

Provides statistical information about the selection. For more information, see ["Match Results Tabs"](#) on page 5-7.

### View Information

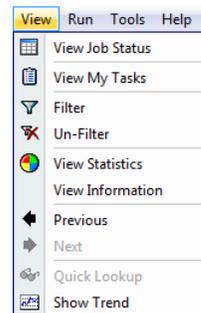
Provides an informational message containing the project name, Transform Server, DSA name, and the location of the data file.

### Previous / Next

The arrow buttons allow you to view alternative definitions for a line item. They operate differently depending on the selected tab.

### Quick Lookup

Allows you to quickly locate and view Ngram matching results. When the associated DSA does not contain Ngram matching, this option is inactive. For more information, see ["Applying Quick Lookup"](#) on page 3-4.



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## Show Trend

Provides a graphical trend analysis of the output data. For more information, see "[Trend Analysis](#)" on page 5-12.

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## Run Menu

### Transform Data

Processes the output data in real-time. For more information, see "[Running a Governance Studio Project](#)" on page 3-19.

### Transform Data with Overrides

Allows you to process the output data with settings that you provide at runtime that override those configured in the DSA. You can override the threshold and fuzzy matching settings for Ngram Match or an Attribute Match 2 (associated with Semantic Key 2) processing. When the associated DSA does not contain these matching processes, this option is inactive.

### Submit Job

Processes the output data in the background. For more information, see "[Running a Governance Studio Project](#)" on page 3-1.

### Create Task from Checked Rows

Creates a new job using the selection. For more information, see "[Create Task from Checked Rows](#)" on page 5-137.

### Email Checked Rows

E-mails the selected rows. For more information, see "[Emailing Checked Rows](#)" on page 3-7

### Apply Checked Rows

Processes the output data in the rows that you have selected. For more information, see "[General Processing](#)" on page 3-3.

### Re-Run Checked Rows

Reprocesses the output data in the rows that you have selected. For more information, see "[General Processing](#)" on page 3-3.

### Complete Project

Closes out a project. For more information, see "[Completing Projects](#)" on page 3-4.

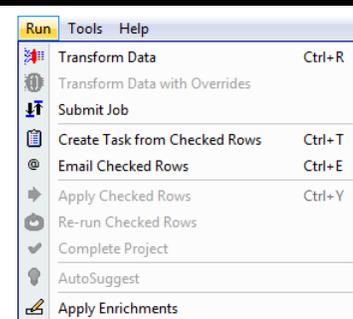
### AutoSuggest

Obtain data processing suggestions from the Governance Studio. For more information, see "[AutoSuggest Feature](#)" on page 5-5.

### Apply Enrichments

Opens enrichment review dialog where tasks associated with these enrichments can be created. For more information, see "[Creating Data Enrichment Tasks](#)" on page 5-6.

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## Tools Menu

### Open Oracle DataLens Task Manager...

Starts the EDQP Task Manager. See the *Oracle Enterprise Data Quality for Product Data Task Manager Reference Guide*.

### Open Oracle DataLens Application Studio...

Starts the EDQP Application Studio. See the *Oracle Enterprise Data Quality for Product Data Application Studio Reference Guide*.

### Open Oracle DataLens Knowledge Studio...

Starts the EDQP Knowledge Studio. See the *Oracle Enterprise Data Quality for Product Data Knowledge Studio Reference Guide*.

### Open Oracle Enterprise Data Quality for Product Data...

Starts the Oracle Enterprise Data Quality for Product Data Launch Pad so that you can start other applications and the Enterprise DQ for Product Oracle DataLens Server Administration Web pages.

### Set Transform Server

Identifies the Oracle DataLens Server that will be used to transform data. For more information, see "[Setting the Transform Server](#)" on page 2-4.

### Project Options

Allows you to set options for the open project. For more information, see "[Configuring Options](#)" on page 2-10.

### Options

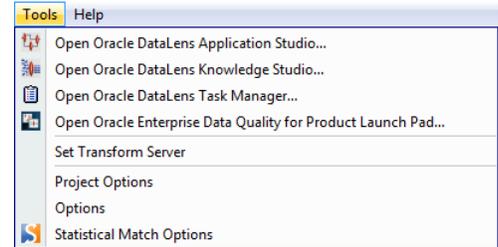
Allows you to set options for global use in the Governance Studio. For more information, see "[Configuring Options](#)" on page 2-10.

### Change Password

Enables you to change your EDQP password.

### Statistical Match Options

Allows you to dynamically modify the Statistical Match and result settings, as well as the fields to use in the match process. See "[Statistical Matching and Options](#)" on page 5-17.



## Help Menu

### Product Guide

Opens a list of Enterprise DQ for Product documents for your selection in a browser.

### Help About

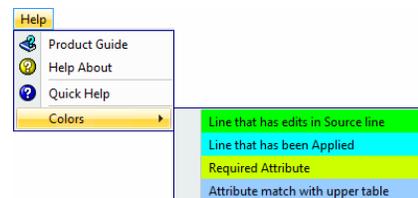
Provides information regarding the product including the version number and a link to view third party product licenses.

### Application Help

Opens the Governance Studio online help in a browser.

### Colors

Describes the colors used in the data tables used in the Governance Studio.



## Keyboard Shortcuts

The following table contains keyboard shortcuts that can help make the Governance Studio easier to use.

Function	Shortcut Key
New Project	Ctrl+N
Open Project	Ctrl+O
Save Project	Ctrl+S
Undo	Ctrl+Z
Find	Ctrl+F
Find Next	F3
Replace	Ctrl+H
Check All Rows	Ctrl+A
Transform Data	Ctrl+R
Create Task from Checked Rows	Ctrl+T
Email Rows	Ctrl+E
Apply Checked Rows	Ctrl+Y

## Tabs

A tab groups like information into easy to read and access areas that include graphs, panes, and text entry boxes. Tabs are displayed in the client workspace directly under the toolbar and can be activated in any order. Not all tabs are available at all times. For example, the Output tabs are not active when you create a new Governance Studio project because the output has not yet been generated.

### Standard Tabs

The standard data tabs provide representations of the aggregate quality and productivity metrics for the project. The graphical output tabs are highly configurable, and double-clicking a bar takes you to the underlying output. You can use these tabs to achieve business objectives in a variety of areas:

- Manage data quality by source:
  - Determine quality of the data source
  - Allow closed-loop governance of sources
- Monitor process effectiveness:
  - Determine how often a process is invoked, how often it is successful
  - Identify process improvement opportunities
- Assess work-queue visibility and productivity metrics by user

**Source Tab** The **Source** tab is created when the Governance Studio project is based on an input file load or on manual input. If the project specifies an external file, or if the underlying DSA is based on database input, or if the project connects to a scheduled job, there is no **Source** tab.

id	part_number	description	manu
500140	502141	0.79MM/3C CONTROLFLEX CY 300/500V GREY IEC332-3C F2 COMPLIANT	Renesas Technology Co
500145	502134	0.79MM/5C CONTROLFLEX YY PCU/LSZH/LSZH GREY 300/500V NOD 1-4 + GRN/YLLW	Fenghua Advanced Te
500150	502235	0.79MM/5PR B55308 PT1 TYPE 2 PCU/PE/COLL SCRN/LSF/SWA/LSF BLK 24/0.2MM	Broadband TelCom Po
500155	500245	0-80 X 3/16 CLIP PT SOC SET SCR 18-8 SS	IXYS Corp
500160	500784	0-80X1 18-8SS SOCKET HEAD CAP SCREWS	Solid State Electroni
500165	500554	1 1/4-7X5 1/2 Hx Hd Cap Screw-Gr 5 Zinc Pl	ST-Semiconductors of
500170	500599	1 1/8-12X4HX HD Cap Scr-Gr 8 Zinc Pl(LE)	Alpha Electronics Co
500175	502182	1.5MM/1C 6701B FLEXIBLE BLACK 450/750V B57211 LOW SMOKE HCL 0.5% MAX	ST-Semiconductors of
500180	502106	1.5MM/25C CONTROLFLEX YY 300/500V GREY IEC332-3C F2 COMPLIANT	Semi Elements Inc
500185	502215	1.5MM/2R CONTROLFLEX YY PCU/PVC/PVC GREY 300/500V CORES NOD 1-2	Manutech Inc
500190	502218	1.5MM/2PR B55308 PT1 TYPE 2 IND AND COLL SCREEN BLUE RP15 7/0.53MM BLU/BLK PRS	Seagate Microelectron
500195	502148	1.5MM/5C CONTROLFLEX SY PCU/PVC/PVC/GSWB/PVC 300/500V CENELEC COLOUR CORES	Microwave Diode Corp
500200	502217	1.5MM/5C CONTROLFLEX YY PCU/PVC/PVC GREY 300/500V NOD 1-4 + GRN/YLLW	Newport Components
500205	502197	1.5MM/5PR B55308 PT1 TYPE 2 COLL SCREEN BLACK RP15 7/0.53MM	Elpida Memory Inc.
500210	502231	1.5MM/2PR B55308 PT1 TYPE 2 PM73479 PCU/PE/COLL SCRN/LSF/SWA/LSF BLK 7/0.53MM	Tottori Sanyo Electr
500215	502223	1.5MM/6C B55308 PT1 T2 PM73479 PCU/PE/COLL SCRN/LSF/SWA/LSF BLK D63 7/0.53MM	Amex Electronics Inc
500220	502220	1.5MM/8C CONTROLFLEX YY PCU/PVC/PVC GREY 300/500V NOD 1-7 + GRN/YLLW	Teledyne Cougar
500225	500183	1/2-13 X 1" A193 B7 HEAVY HEX BOLT	Crystek Crystals Corp
500235	500803	1/2-13 X 16 NON-STD ALLY SKT CAP SCR	Teledyne Cougar
500240	500467	1/2-13 X 3/4 FLAT PT Soc Set Scr Alloy St+K	Semi Elements Inc
500245	500370	1/2-13X1 GR2 GALV HEX HEAD BOLT	Ducati Energia Spa
500250	500313	1/2-13X1" SERRATED HEX FLANGE BOLT	LXD Inc
500255	500566	1/2-13X14 Sq Hd Bolt Gr 2	Seaward Electronics I
500260	500820	1/2-13X2 1/2 HOLOKROME SOCKET HEAD CAP SCREW USA	Agilent Technologies
500265	500534	1/2-13X2 3/4 FH SI MACHINE SCREW ZINC PL	Semi Elements Inc
500270	500556	1/2-13X4 1/2 Hx Hd Full Thrd Cap Scr Gr 2	Lapp USA
500275	500283	1/2-13X4.50 W/NYL PTCH ALLOY SKT HD CAP SCR	Taiyo Yuden Inc

**Graph Summary Tab** The **Graph Summary** tab provides summaries of the **Transformed Data** tabs that are configured in the DSA for graphical output. This tab is created if there are at least two graphs to display.



**Data Summary Tab** The **Data Summary** tab shows a graph of the number of transformed rows associated with each of the **Transformed Data** tabs.



## Output Tabs

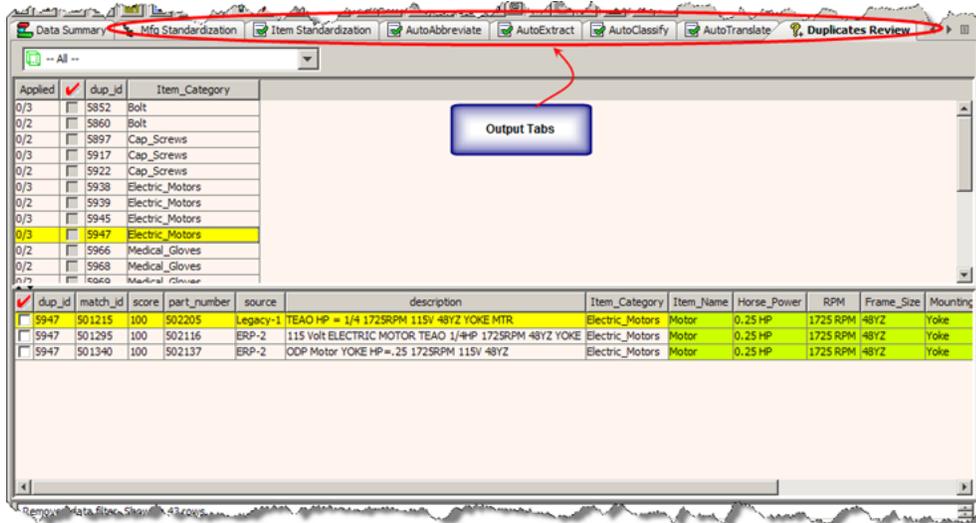
The Output tabs offer item-level validation, approval, edit, and routing. The output is displayed in a single tabular view in the top pane.

There are several types of Governance Studio Output tabs. Each type has different rules governing its creation and different properties that permit you to perform actions on the output each tab displays. Output tabs in the Governance Studio correspond to output steps in your Data Service Application.

The Output tabs provide task-specific User Interfaces (UIs) for any exception process including the following:

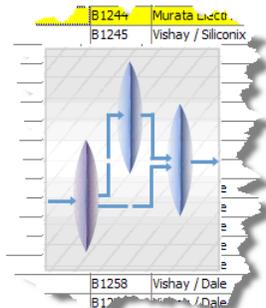
- Review and approve parsing results
- Review and approve potential matches
- Reassign low quality items to different workflow/process
- Direct edit/update of low quality items
- Enables manual intervention while preserving process integrity and efficiency

The following is an example of a match selection process, upon the selection of a row, a parent-child relationship view appears in the bottom pane for match results. These split-screen task panes provide you with an easy to use interactive console to perform tasks associated with reviewing and approval or rejecting duplicates, matches, and functional equivalents



**Creating Output Tabs** For a new project, Output tabs are not initially displayed in the Governance Studio project. After transforming the **Source** tab data using the **Transform** button, the Output tabs are displayed. While transforming source data or obtaining source data from a database query, the **Job-In-Progress** icon in the center of the tab shows that the run is in progress.

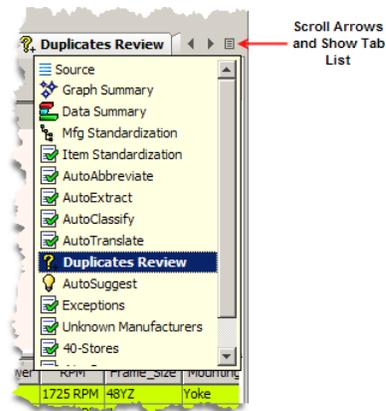
For an existing job, the Output tab data is recreated with each job run.



If Output tabs already exist, the Governance Studio compares the column headings of the new data with the column headings of the data in all of the existing Output tabs. If there is a data match (the columns are identical), the existing Output tabs are used. Otherwise, the Governance Studio indicates the mismatch with an error message though it automatically creates the associated Output tab.

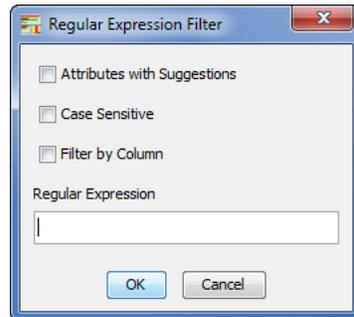
**Tab Scroll Arrows and Show Tab List Button**

After transforming your project data, one or more Output tabs will appear depending on whether the output steps in your DSA specified Governance Studio output. If there are more Output tabs in the Governance Studio console than can display on one page, you can click the left and right **Scroll Arrows** at the right to scroll to the right or back to the left. Also, you can click the **Show Tab List** button as shown in following figure to see a list of Output tabs to select them individually.



## Filtering Data

The tabs that contain tables in the Governance Studio can be filtered to view specific information thereby reducing the number of rows displayed in a table. To filter your table click the **Filter** button on the toolbar or from the **View** menu, select **Filter**.

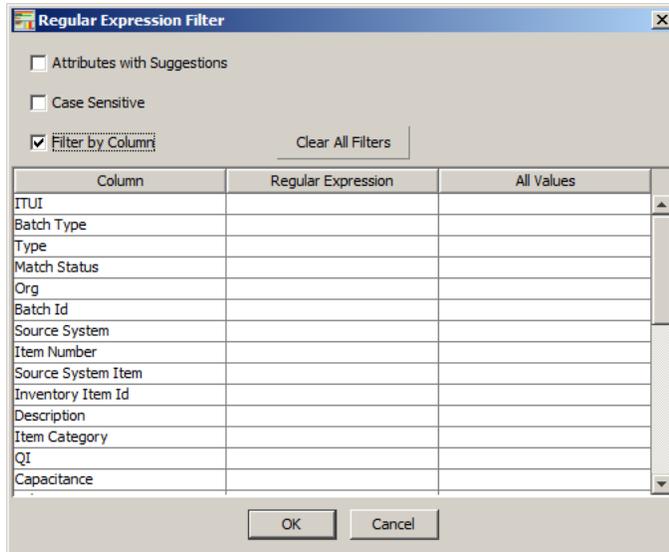


The **Attributes with Suggestions** check box is active when the selected tab is an AutoSuggest output tab (see "[AutoSuggest Feature](#)" on page 5-5) and allows you to search by suggested data.

If the data that you want to filter with is case sensitive, select the **Case Sensitive** check box to ensure that proper filtering.

Enter a regular expression or a text string that you want to use to filter your data.

You can filter each column of data by selecting the **Filter by Column** check box.



Each column of the selected tab is displayed. You can enter a regular expression for one or more columns or you click in the **All Values** column to select a filter value from the auto-populated lists. The **Regular Expression** and **All Values** columns are mutually exclusive so an entry or selection in one column resets the other column. The values listed in the **All Values** column are derived from the values currently in the table so repeated filtering will produce fewer selections. This allows you to refine your filtering based on what is visible. If the values you want to filter on do not appear, unfilter your data, and then filter again.

You can quickly clear all filtering entries by clicking the **Clear All Filters**. To delete individual filtering entries, select the entry and press the **Delete** key.

The **Filter** button is colored green when a filter is active so that you can easily identify that all data is not displayed. When you remove the filter, using the **Un-Filter** button or from the **View** menu, select **Un-Filter**, all of the data is displayed.

## Task Panes

The Governance Studio includes two interactive task panes: the Governance Console where data is displayed in tabular form similar to a Microsoft Excel spreadsheet and the Governance Dashboard where graphical representations of the output data are displayed.

The small up/down arrows between the panes on the left-hand side, allow you to resize the panes. In addition, you can fully expand either pane to see more data by clicking on an arrow, which makes the pane inactive. To redisplay the inactive pane, click the opposite arrow and the pane reappears.

There are various context-sensitive (shortcut) menus that appear in the Governance Studio panes when you right-click on data within a pane. The contents of these menus are described throughout this reference.

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## Configuration and Administration

How to configure and administer the Governance Studio is explained in this chapter.

### Configuring a DSA for Governance Studio

In order to use the Governance Studio, you must use a DSA that has been properly configured. The configuration requires selection of appropriate output types. The functions of the Governance Studio options for output types are described in this section.

Additionally, this section is a summary of the information required to create a DSA template for a Governance Studio project. For more information on DSA design, see *Oracle Enterprise Data Quality for Product Data Application Studio Reference Guide* or consult with your Enterprise DQ for Product Administrator.

### Accessing the Output Step in the DSA

In the Application Studio, open a DSA, and then double-click any **Text** output node.

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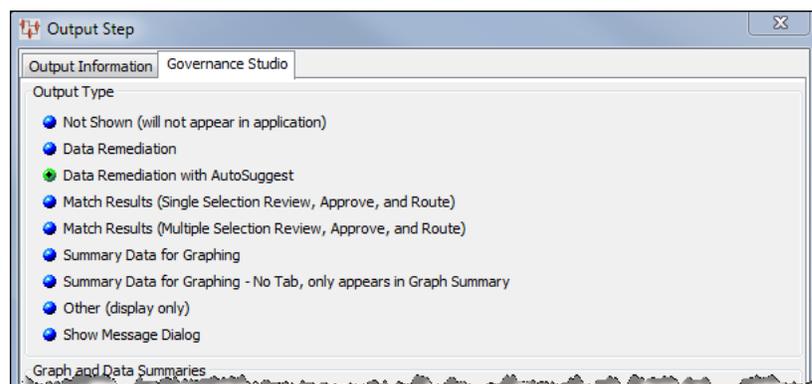
---

**Note:** Governance Studio projects report on text-based output only so the DSA *must* have at least one text output step that returns results. The Governance Studio ignores other types of outputs such as database outputs provided you set the output type to *Not Shown (will not appear in application)* as described in this section.

---

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Click the **Oracle DataLens Governance Studio** tab to view the Governance Studio output configuration options.



## **Governance Studio Output Type Options**

As shown in the previous figure, you may choose one of the following output types to determine how data is displayed in the Governance Studio using the **Output Step** dialog in the Application Studio:

### **Not shown (will not appear in application)**

Results will not appear in the Governance Studio console Output tabs. Use this output type for results that do not conform to Governance Studio requirements, such as database output steps.

### **Data Remediation**

The records of data that exactly meet the output criteria specified are displayed. Use this output type for displaying the results of a DSA process that requires a person to review and perform corrective action on the data. The corrective action could be manual correction of missing attributes as well as leveraging list of values to fill in missing attributes.

### **Data Remediation with AutoSuggest**

The records of data that exactly meet the output criteria specified are displayed and operates like the Data Remediation option previously described. Additionally, you have the opportunity to use the AutoSuggest feature to provide a set of suggestions to enrich the records that have missing attribute values.

### **Match Results (Single Selection Review, Approve, and Route)**

Possible data records meeting match or duplicate criteria are displayed below a split-screen in the output spreadsheet. Only a single data record from the list of matched items can be selected; the record is available for downstream processing. Use this output type to display the results of a DSA template that runs a match process.

### **Match Results (Multiple Selection Review, Approve, and Route)**

Records meeting match or duplicate criteria are displayed below a split-screen in the output spreadsheet. Multiple records from the list of matched items can be selected; the records are available for downstream processing. Use this type for displaying the results of a DSA template that runs a match process.

### **Summary Data for Graphing**

Summary information is displayed in the graph; no selection of records is available with this option. The bars in the graph operate like buttons and when clicked jump to the Output tab for the data represented in the selected bar.

### **Summary Data for Graphing - No Tab, only appears in Graph Summary**

An individual tab is not created; the data appears in the **Graph Summary** tab only.

### **Other (Display Only)**

Result information is displayed in a spreadsheet form that does not allow user interaction.

### **Show Message Dialog**

Informational messages, including errors and warnings, are displayed to the user.

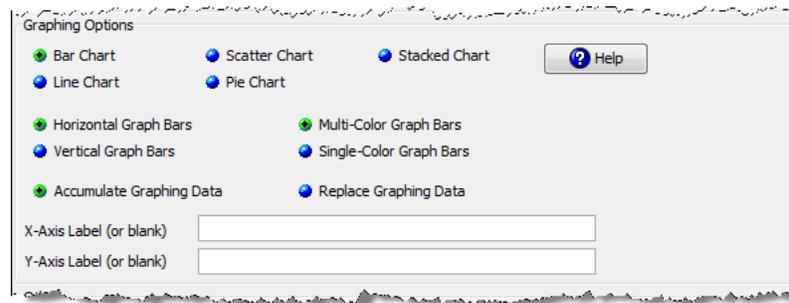
## **Governance Studio Graph Options**

This section of the **Output Step** dialog in the Application Studio is active only when one of the **Summary Data for Graphing** options are selected as described in the previous section.

There are four graphing options available for the output types. You can mix and match between two sets of options for the graphs and create a label for the X and Y axes as follows:

- Bar direction
  - Horizontal
  - Vertical bars
- Bar color
  - Multi-color bars
  - Single-color bars

As shown in following figure, you may choose from the following graphing options to configure how graphs appear in the Governance Studio:



The data values across the defined Output tabs can be compared and displayed in the following types of charts:

### Bar Chart

A 3-D, colorized visual effect that shows the data in a bar format. The orientation of the bars is determined by the selection of **Horizontal Graph Bars** or **Vertical Graph Bars** options. The use of color in this type of chart is defined using the **Multi-Color Graph Bars** (a different color for each Output tab) or **Single-Color Graph Bars** (one color for all Output tabs.)

### Line Chart

A line connecting the various output data points in a simplified manner.

### Scatter Chart

A series of connected markers that show the data relationship.

### Pie Chart

A 3-D, colorized representation where each tab is depicted by its percentage of contribution to the total.

### Stacked Chart

A 3-D, colorized representation where each tab is depicted by its percentage of contribution to the total.

### Accumulate Graphing Data

The original data is retained when new data is added and all are rendered in the graphs.

### Replace Graphing Data

All data is replaced by new data prior to rendering in a graph. The DSA is responsible for recalculating the results each time to ensure that the graph has the correct values.

### X and Y-Axis Labels

You can add meaningful labels to indicate the data is graphed on the X and Y axes or you can leave it blank to use the default labeling.

### Help Button

Use the **Help** button to review information about the various graphing options.

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**Note:** If you modify an output step in the DSA that underlies your Governance Studio project, you *must* check in your DSA changes and then refresh the Governance Studio project.

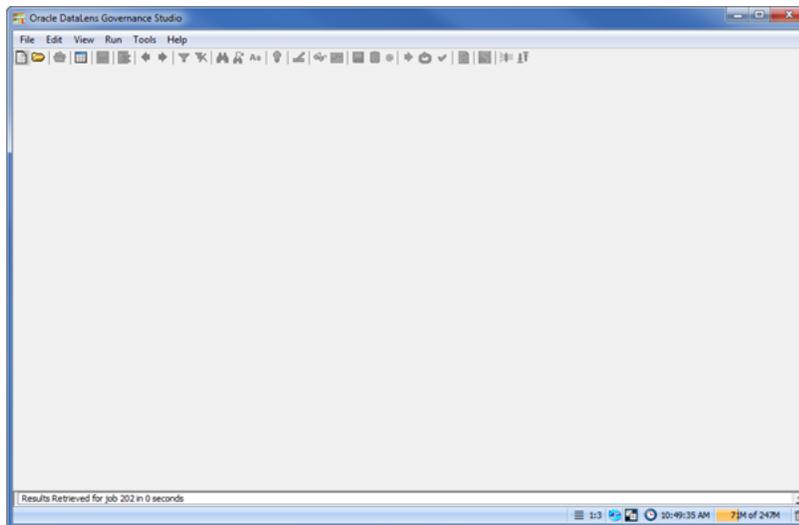
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## Starting the Governance Studio

Once you have added an output step in your DSA and configured it for Governance Studio output, you are ready to create a project in the Governance Studio. This section describes the steps to follow to create and run a Governance Studio project from a DSA created with the Application Studio.

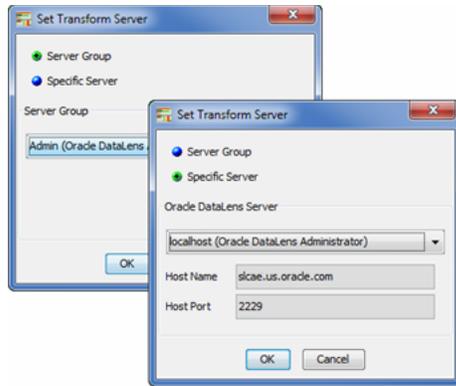
If this is the first time you have started the Governance Studio, the client workspace appears blank as in the following figure; otherwise the results from the last job run are displayed.



## Setting the Transform Server

On first use of the Governance Studio GUI, the Oracle DataLens Server that will be running your Governance Studio projects is set to the default Transform Server. You can change your Transform Server to any other server or server group in your topology.

1. From the Tools menu, select **Set Transform Server**.



You can choose to select a specific server or a group of servers to use for data transformation.

2. Select either the **Server Group** or **Specific Server** option.
3. Click the down arrow to view your server options, and select the appropriate server.

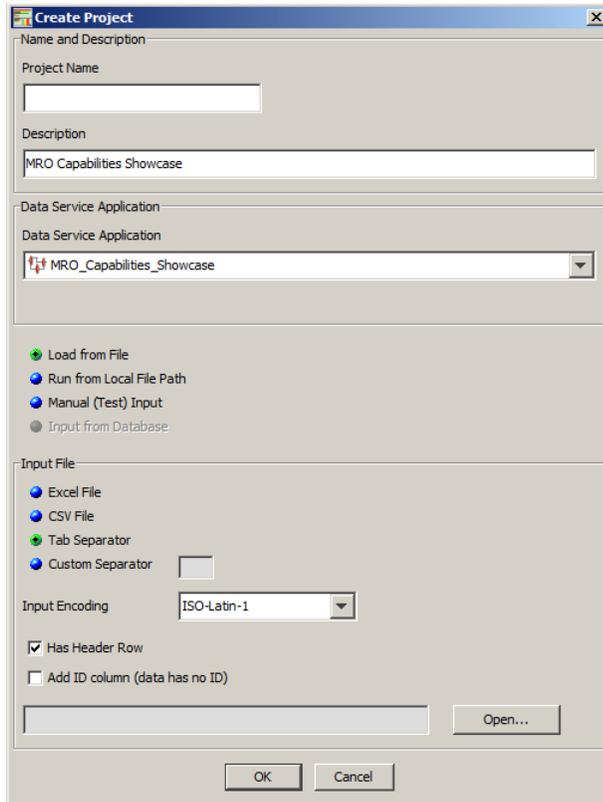
If selecting a group of servers, you can choose from the Administrator, Development, Production, or Quality Assurance server groups. The Administrator server group is the default.

4. Click **OK**.

The transform server is contacted and this server is used for all data transformations. You can use the **Set Transform Server** option from the **Tools** menu to change your Transform Server and host port at any time.

## Creating and Running a Governance Studio Project

From the **File** menu, select **New Project** to create a new Governance Studio project. The **Create Project** dialog box is displayed as shown in the following figure.



The **Create Project** dialog creates a new Governance Studio project. Following are the Governance Studio project parameters that you can configure:

**Project Name**

Name of the Governance Studio project.

**Description**

A description of the project. You must specify a description.

**Data Service Application**

Identifies the DSA that is run for the Governance Studio project and how the input data is received. Because Governance Studio requires at least one text output step that returns results, DSAs with no text output are not listed and cannot be used to create a new project.

**Input File**

Specifies the type of input data.

**Retrieve the Input Data**

After you specify the project name and supply a description, you must select a DSA from the list of DSAs that have been checked in to your Oracle DataLens Server (for more information on creating DSAs, see *Oracle Enterprise Data Quality for Product Data Application Studio Reference Guide*). The input data that you specify must be compatible with the specifications of the DSA you created earlier. For more information, see "[Configuring a DSA for Governance Studio](#)" on page 2-1.

To load the input data into the project, you must first select one of the data modes listed, and then the corresponding input data file type using one of the colored

options. As you hover over a option, the color changes and when you click on it the selected option becomes green.

The options for receiving input data for the DSA are as follows:

- **Load from File** - All data is loaded.
- **Run from Local File Path** - Data is streamed from disk.
- **Manual (Test) Input** - Data is supplied with manual entries.
- **Input from Database** - Data is obtained from a database.

The **Create Project** dialog box input data types options change based on your data mode selection. For example, if the input data is from a database, only the **Input from Database** selection is active and is selected by default.

The input data types supported are:

- **Tab Separator**
- **Excel File**
- **CSV File**
- **Custom Separator**

---

**Note:** Count data must be in integer format to avoid generating an error.

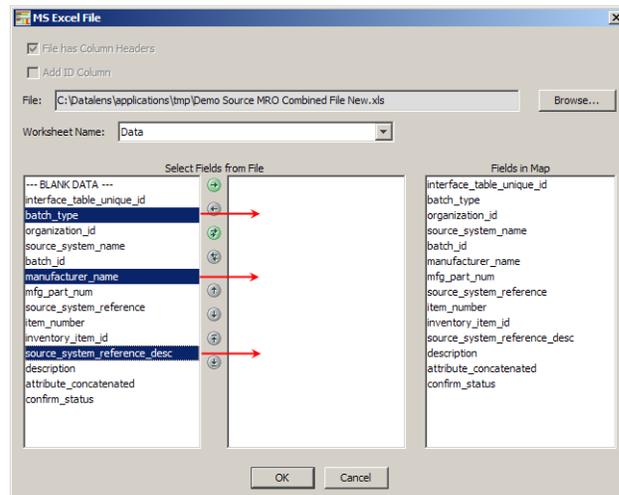
---

The following section details an example of opening an input data file to retrieve and load the data.

### Opening an Excel Input File

1. Select the **Load from File** option.
2. Select the **Excel File** option to specify an Excel file.
3. Click **Open....**

The **MS Excel File** dialog box is displayed.



4. Click **Browse**, locate the data file, and then double-click it.

5. If the worksheet containing your data is not selected, select it from the **Worksheet Name** list.
6. Select the fields from the input file shown in the left pane that match the fields in the DSAs transform map as shown in the right pane and move them using the arrow buttons.

The single arrow buttons move one field and the double arrow buttons move all fields to the left or to the right. You can reorder how the fields are processed by the DSA using the up and down arrows. The arrows that contain a line above or below it move the selected field to the top or bottom position respectively.

The **-BLANK DATA-** selection may be used if there are no output fields associated with the input data in the DSA.

7. Click **OK** to accept your changes.

You are returned to the Create Project dialog box.

8. Click **OK**.

9. Click the **Transform Data** button to process the data, which populates the **Summary** and Output tabs upon a successful run.

Your new Governance Studio project is created and the **Source** tab of the Governance Studio console displays your input data as shown in following figure.

interface_table_unique_id	batch_type	organization_id	source_system_name	batch_id	company_name
150	BT50	Org_50	SourceName_50	B1050	Crystek Cry
151	BT51	Org_51	SourceName_51	B1051	Ducati Energ
152	BT52	Org_52	SourceName_52	B1052	LXD Inc
153	BT53	Org_53	SourceName_53	B1053	Seaward Ele
154	BT54	Org_54	SourceName_54	B1054	Microwave D
155	BT55	Org_55	SourceName_55	B1055	Tusonix Inc.
156	BT56	Org_56	SourceName_56	B1056	Manutech In
157	BT57	Org_57	SourceName_57	B1057	Newport Co
158	BT58	Org_58	SourceName_58	B1058	TM Technol
159	BT59	Org_59	SourceName_59	B1059	Amerace Ele
160	BT60	Org_60	SourceName_60	B1060	Semi Elemen
161	BT61	Org_61	SourceName_61	B1061	Matsushita E
162	BT62	Org_62	SourceName_62	B1062	Methode Ele
163	BT63	Org_63	SourceName_63	B1063	Aeroflex / K
164	BT64	Org_64	SourceName_64	B1064	Marktech Op
165	BT65	Org_65	SourceName_65	B1065	Micro Analog
166	BT66	Org_66	SourceName_66	B1066	Mospec Sem
167	BT67	Org_67	SourceName_67	B1067	Skyworks Sc
168	BT68	Org_68	SourceName_68	B1068	IXYS Corp
169	BT69	Org_69	SourceName_69	B1069	CII Technol
170	BT70	Org_70	SourceName_70	B1070	Micrometric
171	BT71	Org_71	SourceName_71	B1071	Forward Hol
172	BT72	Org_72	SourceName_72	B1072	ST-Semicon
173	BT73	Org_73	SourceName_73	B1073	Alpha Elect
174	BT74	Org_74	SourceName_74	B1074	Amex Elect
175	BT75	Org_75	SourceName_75	B1075	Knox Semico

Removed data filter. Showing 12 rows.

---

**Note:** The Governance Studio input data row limit is 64K rows for Excel 2003 and 1M for Excel 2007. Attempts to load input data files greater than this will result in a file input error. You should create several smaller input data files and process them separately.

---

The data file loading information, including the path to the file, is displayed in the status bar. Below the file information is the name of the DSA that will be used to process the input data.

## Project Templates

The ability to create and subsequently open a project from a particular template can be very useful in ensuring consistent use of DSAs. Additionally, it allows privileged users to process multiple batches reusing the same template.

### Creating a Project Template

1. To create a new project from an existing DSA template, from the **File** menu, click **New Project From....** You are prompted for a project ID as shown in the following figure.
2. Enter a unique ID text string to identify this project and click **OK**.

This unique text string is appended to the current DSA name so that it is clear which DSA was used to create the template.

For example, if the DSA name is 'SCS\_MAIN\_PROCESSING' and you enter '1000999', then the template name would be 'SCS\_MAIN\_PROCESSING\_1000999'.

### Opening a Project Template

You can retrieve any template created using the **New Project From...** feature.

1. From the **File** menu, click **Open Project From....**
2. Locate the template you want to use, select it, and then click **OK**.

The project is opened, the data transformed, and the project is ready for use.

## Opening Projects Without Results

You can open an existing project file *without* processing and displaying data results in any Output tabs. To open a project without data results, from the **File** menu, click **Open Project - No Results**, select the project you want to open, and then click **OK**.

---

**Note:** If you created your project with version 5.5 or later, the **Data Summary** tab is populated as this data is saved with the project.

---

This feature is useful in opening a project that previously could not be opened because it exceeded the maximum memory allocation (you can monitor the **Memory Cache**, located in the client workspace frame, usage as it is dynamically updated). When that is the case, use this feature to open the project as previously described and then set the **Conserve Memory** and **Limits on Rows Retrieved** project options as appropriate so that you can process your data. For more information, see "[Memory Tab](#)" on page 2-13.

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**Note:** To avoid exceeding the allocated memory, you may need to adjust your client's EDQP Java Web Start memory settings. For more information, see *Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Administration Guide*.

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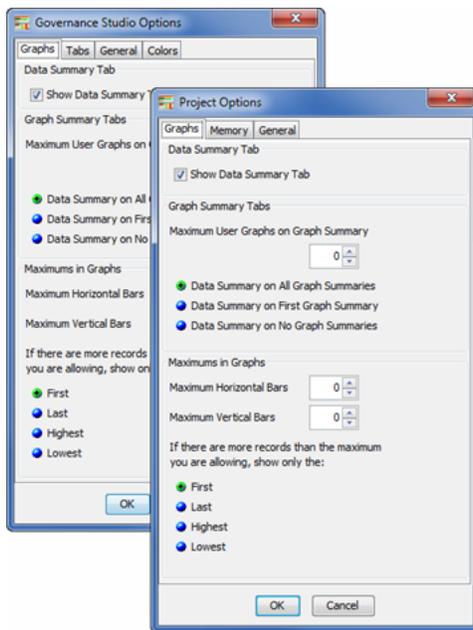
This option can not be used if the project was last run asynchronously though it can be used after you retrieve results using the **Open Project** command on the **File** menu.

## Configuring Options

You can configure project options including how graphs and tabs are displayed with the two options menu selections on the **Tools** menu.

To set the global options for all projects in the Governance Studio, from the **Tools** menu, select **Options**.

To set the options for the open project only, from the **Tools** menu, select **Project Options**.



## Graphs Tab

This tab is available for both **Governance Studio Options** and **Project Options**. It allows you to specify how graphs are displayed on the **Graph Summary** and **Data Summary** tabs.

The **Governance Studio Options** graphing settings are global and are the default settings when a new project is created. However, the **Project Options** graphing settings that you define for a project are used for that project *only* and are exported with the project so that they remain the same when imported by another user.

The following options can be configured:

### Data Summary Tab Section

Select the **Show Data Summary Tab** check box to show the **Data Summary** tab.

### Graph Summary Tab Section

Set the maximum number of graphs that will be displayed on the **Graph Summary** tab using the list.

Set the placement of the tab summary by selecting one of the following options:

- it appears on all tabs

- it appears only on the first tab
- no graph summaries appear on any tabs

### Maximum in Graphs Section

Set the maximum number of horizontal and/or vertical bars using the lists.

Set which records are shown if the total number of records exceeds the maximum number of bars allowed.

## Options Tabs

The following two sections describe the three tabs unique to setting Governance Studio Options.

### Tabs Tab

This is an Governance Studio Options tab. It allows you to specify one or the other or both of the following to change the way that tabs display as follows:

#### Show all Tabs

All of the tabs are displayed rather than being hidden as described in "[Task Panes](#)" on page 1-14.

#### Show Tab Icons

The various icons for the types of tabs are shown on the tab adjacent to the name so that you can easily identify the function of the tab. For example, all Output tabs will display a green check mark or yellow question mark icon while all **Data Summary** tabs display a bar graph icon.

### General Tab

This is an Governance Studio Options tab. Use the general options as follows:

#### Finish Job before Retrieval

When set, the time required to complete a job then retrieve and display the data in each Output tab is displayed in the **Status Field** for your review as in the following example:

```
Results Retrieved for job 212. Run=57 seconds. Retrieval=5 seconds.
```

The normal Governance Studio behavior of retrieving and displaying results before the job has completed is suspended when this option is selected.

#### Validate local Data Service Application

Allows you to validate the DSA that resides on a local drive rather than the same DSA that resides on the Oracle DataLens Server. The local DSA is the one you have checked-out to modify so this option ensures its validity before checking the DSA into the Oracle DataLens Server.

Additionally, the Governance Studio ensures that the local DSA mirrors the functionality of the Oracle DataLens Server DSA that is used to process the data.

#### Default Row Warning Count

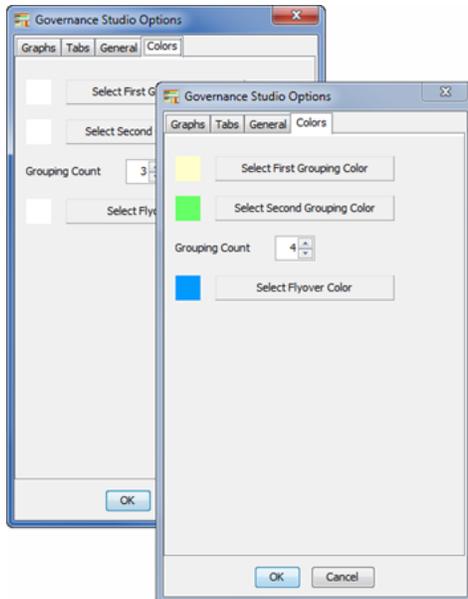
Allows you to set a default number of source data rows beyond which the Governance Studio will display a warning message to allow the user to choose to retrieve all rows or the default number of rows specified. A warning message is displayed for *each* tab that has a resulting number of transformed rows (result count) higher than the specified warning count.

The default number of rows is set to 5000. Setting it to zero ensures that no warning messages are displayed. Setting a reasonable default can avoid potential memory issues when your project returns large sets of data.

This overall Governance Studio warning count option can be overridden for each Output tab by setting individual limits using the **Memory** tab of the **Project Options** as described in the next section.

### Colors Tab

This is an Governance Studio Options tab. You can colorize the rows in the table of the Source tab to make viewing the data easier. By default, all of the rows are white.



Use the colors options as follows:

#### Select First/Second Grouping Color

Use these buttons to set one or two colors to group your rows of data. If you do not select a color for either the first or second group, the rows remain the default white.

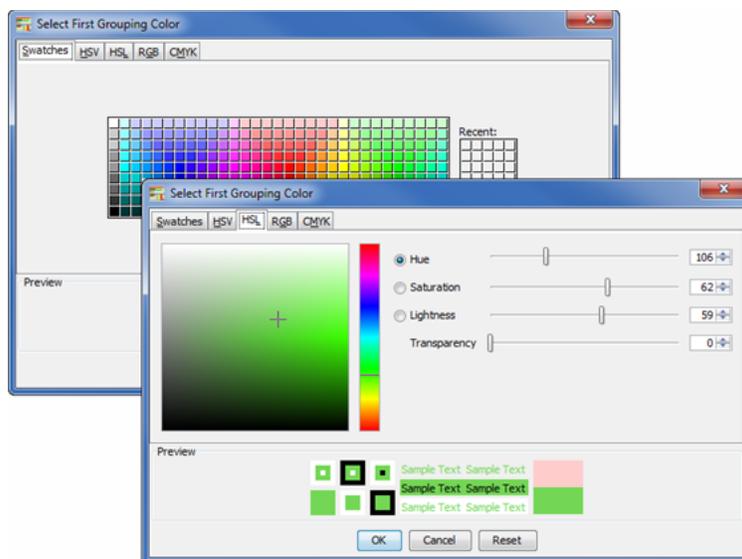
#### Grouping Count

Enter or select the number of rows you want to comprise a group.

#### Select Flyover Color

Select the color you want to use to colorize the row that your mouse is hovering over.

Selecting the colors that you want to use is the same for each button.



You can select a standard color from the Swatches tab or create your own color using any of the other tabs. Creating a color can be achieved using the slide bars, clicking in the color palette or color bar, or any combination of these actions. The Preview pane allows you to see the selected color, a recently selected color, and how the selected color will appear in the row of the Source tab table.

## Project Options Tabs

The following two sections describe the other two tabs unique to setting Project Options.

### Memory Tab

This is an Project Options tab. Use the options to set how the Governance Studio will use the available memory as follows:

#### Conserve Memory

Set this option to populate Output tabs only when the tab is selected thereby saving memory. When you run a job (or load it from disk), the data is retrieved and saved for each Output tab though it is not displayed until it is selected. With this option selected, your project will open and no results are displayed until you click an Output tab.

When using this option, the **Keep Lines Cutoff** option becomes active so that you can specify if data is to be retained in the selected Output tab when another one is selected.

---

**Note:** You can not use the Re-run button (as described in "[Re-Running a Secondary DSA](#)" on page 3-3) to reprocess data when this option is set because all Output tabs must be fully populated so that the re-run operation can add data to tabs as necessary.

---

#### Keep Lines Cutoff

Set the amount of data to be retained in an Output tab when another tab is selected; this option is active after the **Conserve Memory** check box is selected.

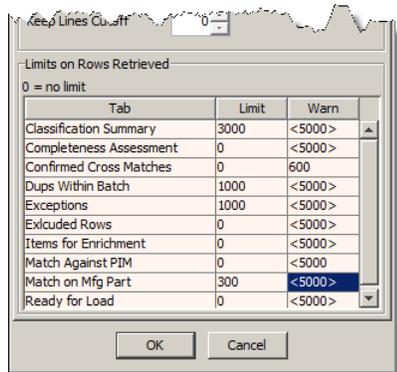
Setting this value to:

- **zero (the default)** - ensures that all of the data is retained in the tab when another one is selected.

- **> zero** - removes the data from the tab if the rows of data exceeds the number specified. For example, if you set the value to 1000 rows and 1200 rows exist, then the data is removed when you select a different tab. Conversely, if only 900 rows exist, then the data remains because it did not exceed the 1000 row limit set.

**Limits on Rows Retrieved**

Set an individual value for the maximum number of rows that will be retrieved for each of the Output tabs. For example, 50,000 rows may be generated for an Output tab and you can choose to retrieve a maximum of 5000 to decrease the amount of time required to process the job.



Use the table as follows:

- **Tab column** - Each tab is listed.
- **Limit column** - Enter the maximum number of rows you want to retrieve for one or more tabs. Setting this value overrides the **Warn** column, locks it from editing, and no warning messages are displayed when the maximum is reached.
- **Warn column** - Use the default warning message value displayed or enter the number of source data rows beyond which the Governance Studio will display a warning message to allow the user to choose to retrieve all rows or the default number of rows specified. If you set this value then enter a **Limit** value for the tab, the **Warn** value is reset to the Governance Studio default as it is ignored by the override **Limit** value. You can reset this value by entering the Governance Studio default warning count surrounded by less than and greater than symbols. For example, if the default warning count was not changed you would enter '<5000>'.

These **Limit** and **Warn** values specified override any **Default Row Warning Count** value set as described in the Governance Studio Options "**General Tab**" on page 2-11.

**Tip:** You can find out what the total number of generated rows by viewing the tooltip for a given tab without selecting it.

---

**Note:** To avoid exceeding the allocated memory, you may need to adjust your client's EDQP Java Web Start memory settings. For more information, see *Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Administration Guide*.

---

**General Tab**

This is an Project Options tab. Select the **Show All selection by default** check box to set displaying all Item Definitions in all Output tabs as opposed to the first Item Definition. The default is the first Item Definition.

---

---

## Data Remediation in a Project

This chapter explains how to run a Governance Studio project and use it to remediate your data.

### Running a Governance Studio Project

A Governance Studio job may be run synchronously or asynchronously. Synchronous execution runs in real time in the foreground of the Governance Studio client workspace and is started by clicking on the Transform Data button. Program interaction is suspended until execution is completed when running a synchronous job. Asynchronous execution runs in the background and releases the Governance Studio application to continue work. Large jobs should be run asynchronously though smaller jobs may be run synchronously.

---

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**Note:** You can cancel either type of job using the Oracle DataLens Server Administration Web page. See *Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Administration Guide*.

---

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### Synchronous Execution

To run your Governance Studio job in real time (synchronously), click the **Transform Data** button on the toolbar or from the **Run** menu, select **Transform Data**.

### Asynchronous Execution

To run your Governance Studio job in the background (asynchronously), you would click the **Submit Job** button on the toolbar or from the **Run** menu, select **Submit Job**. This submits the job and closes your project.

### Data Override Execution

If the DSA for your Governance Studio project contains an Ngram Match or an Attribute Match 2 (associated with Semantic Key 2), you can change the matching thresholds set in the DSA to use settings you provide for data transformation.

---

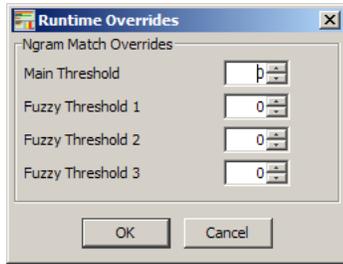
---

**Note:** When the associated DSA does not contain these matching processes, this option is inactive.

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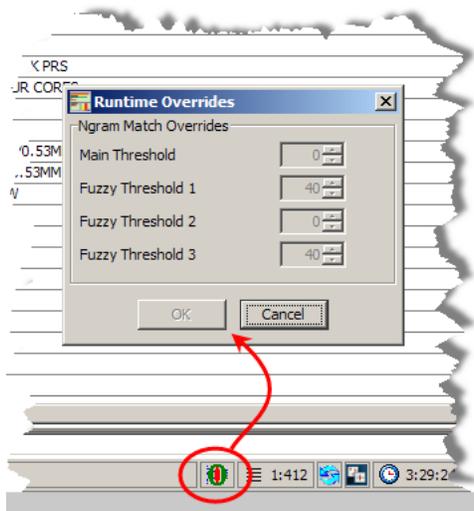
To run your Governance Studio with matching overrides, from the **Run** menu, select **Transform Data with Overrides**.



Use the **Runtime Overrides** dialog box to configure runtime only settings for the overall matching threshold and/or the fuzzy matching settings, and then click **OK**. Your data is immediately transformed using the runtime settings and the results are displayed.

For more information about the threshold settings, see *Oracle Enterprise Data Quality for Product Data Application Studio Reference Guide*.

Once your data transformation is complete, the **Override** button appears in the Governance Studio frame as in the following:



If you click **Override**, the override matching threshold settings are displayed for you to review and cannot be changed.

## Reviewing Project Output

After running a Governance Studio project you can review the output and prepare some or all of the output for downstream processing. This includes sending alternatives to a web search interface to enable cross-sell or up-sell, or sending exceptions to knowledge engineers for appropriate modifications to data lenses to improve recognition and classification of the data.

You may also use the AutoSuggest feature to have the Governance Studio automatically suggest attributes that may have been missed due to misspellings or abbreviations. Autosuggested data may then be transferred to an Output tab table for further processing.

This section provides some examples of the Governance Studio output that extracts attributes and provides classification statistics and suggestions.

Depending on the type of output configured in the underlying DSA, you can take further action based upon your results. Each output type is indicated by a tab in the Governance Studio project.

## General Processing

Rows that have been selected in an Output tab may be 'checked' (selected) to continue processing based on the following actions designated in the underlying DSA output step:

Action	Toolbar Button
Process (Apply DSA)	
Reprocess (Re-run DSA)	
Complete (Completion DSA)	
Quick Lookup (Lookup DSA)	

The primary DSA that is used to process the source data is displayed in the **Status Field**. When a secondary DSA will be used to process the data, it is displayed in parenthesis in the tooltip of that processing button so that you can view it before processing your data.

### Applying a Secondary DSA

Once data has been reviewed, the set of data can be sent to another DSA to continue the processing and to generate text output. This text output can be inserted into a database, emailed, or saved as a file.

1. To apply a secondary DSA to a set of data, select a set of rows on an Output tab using the check mark column.
2. From the **Run** menu, select **Apply Checked Rows** or click the **Apply** button on the toolbar.

### Re-Running a Secondary DSA

Similar to applying a secondary DSA to process a set of reviewed data, the Re-Run feature not only applies the DSA it automatically returns the results to the current project and merges it into existing output data. Once the results are merged, the data selected for processing is then deleted from the main DSA output.

1. To apply a secondary DSA to a set of data, select a set of rows on an Output tab using the check mark column.

---

**Note:** All data selected for re-run is included in a re-run operation so all of the source data in the top task pane and the matching results in the bottom task pane are reprocessed.

---

2. From the **Run** menu, click **Re-run Checked Rows** or click the **Re-run** button on the toolbar.

**Note:** Re-run is not available (dimmed) if you have selected the **Conserve Memory** option. For more information, see "[Configuring Options](#)" on page 2-10.

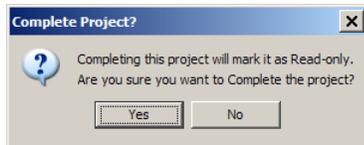
### Completing Projects

You can associate a current DSA with a completion DSA to set a specific project run to a completed status. The completion DSA can include project closing tasks and functions necessary a final closeout of the project.

Once the project completion (closing) has occurred, the project is set to a read-only state that does not allow any further changes. The project can be used to create a new project using the **New Project From...** option though all other application functionality used to modify or manipulate data is made inactive (dimmed).

1. To close a project, click the **Release Batch** tab.
2. Locate the Release Batch ID that you want to close and click the adjacent check box.
3. From the **Run** menu, click **Complete Project** or the **Complete Project** button on the toolbar.

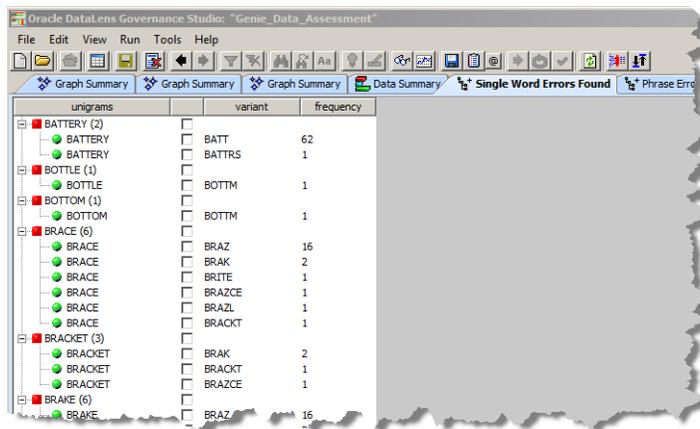
A verification dialog is displayed as shown in the following figure.



4. If you are sure that you want to close this project, click **Yes**; otherwise, click **No** to cancel the process.

### Applying Quick Lookup

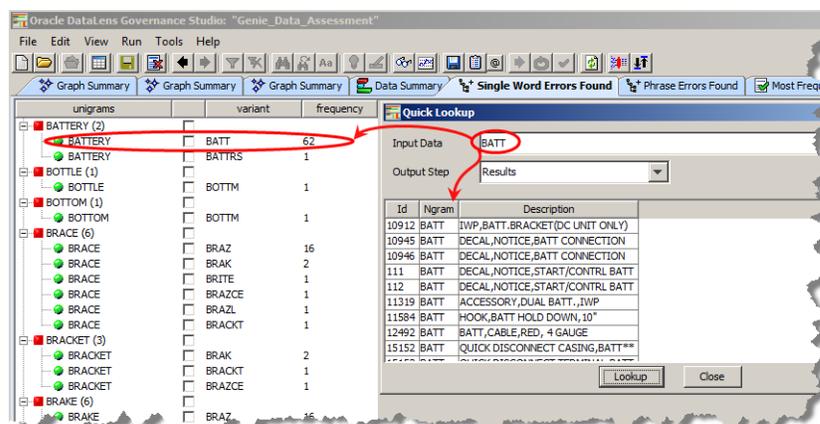
A Quick Lookup DSA is assigned to the output step of a DSA that uses Ngram matching to allow you to show a variant in the context of the original description. The results are displayed in the Governance Studio on the Output tab for the Ngram output step as in the following sample tab:



An output tab can contain a set of variants for either unigrams, bigrams, or trigrams along with the number of times (frequency) the variant is found in the input data.

1. To lookup the associated input data information for a given Ngram, select it and click the **Quick Lookup** button on the toolbar.

In the following example, the 'BATT' variant of the 'BATTERY' unigram is selected for a quick lookup of this variant in the input data:



The 62 instances of the 'BATT' variant are displayed in the **Quick Lookup** dialog box.

2. You can enter a different variant to lookup for the selected Ngram in the **Input Data** field and click **Lookup**. Additionally, you can select a different DSA **Output Step** to use the Quick Lookup functionality on. Either of these options can be used repeatedly to locate result data.
3. Click **Close** to close the **Quick Lookup** dialog box.

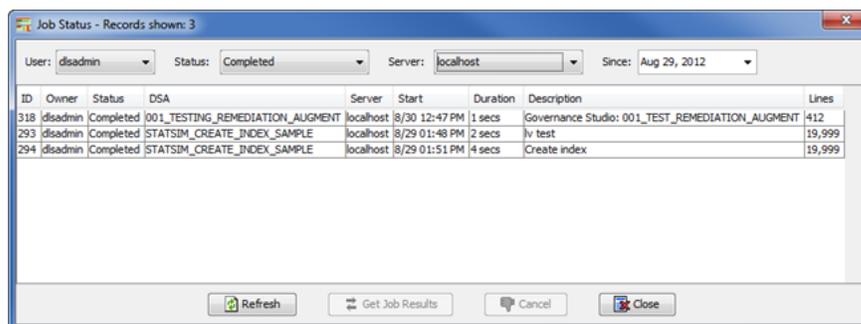
## Other Features

This section describes other features that you can use to review data in your project.

### Viewing Job Status

Any job that was created within the Governance Studio or the Oracle DataLens Server is displayed including those that are pending or have failed. By default, only the current user's jobs are listed.

You can view the status of all jobs associated with a DSA at one time using the **View Job Status** option on the **View** menu.



The view can be changed using the **User**, **Status**, **Server**, and **Since** lists as in the preceding example. These controls filter the displayed data based on your selections. For example, you could use the **Since** list to change the date that you want to set as the

starting point for data retrieval. Alternatively, selecting **Failed** from **Status** filters all failed jobs from the data retrieved.

If a job is running, you can select it and click **Cancel** to stop it. For those jobs that output a result file, you can obtain those results by selecting the job from the list and clicking **Get Job Results**, which is described in the following section.

### Getting Job Results

Any job that is run from the Oracle DataLens Server whose output is designated for display in the Governance Studio can be used to create a new project.

---

**Caution:** When a DSA returns the results of a processing job (synchronous or asynchronous), you *must* retrieve or delete the data immediately, particularly for those jobs that return large amounts of data. Failure to do so can result in an Oracle DataLens Server crash once the server memory is exhausted. The memory can be exhausted from many small jobs that are not retrieved because each DSA job that is under the DSA maximum memory or chunk size set for the server is held in memory until it is retrieved or the server is restarted. For information about setting these values, see *Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Administration Guide*.

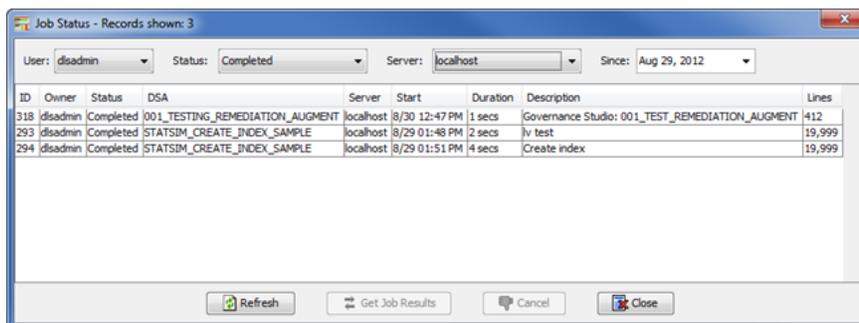
---

To view job run results and create a new project based on one, use these steps:

1. From the **View** menu, select **View Job Status** as described in the previous section. The list of available jobs is displayed.
2. From the **Status** list, select **Results Available**. The Results Available status is only for completed jobs.
3. Select the job whose results you want.

Once you select a job that has results available, the **Get Job Results** button is activated.

4. Click **Get Job Results**.



You are prompted for a name for the project. You can either accept the current name or enter your own name. The **Input** dialog box is populated with a name for the new project based on the job ID and the DSA name by default.

5. Enter a different name for the new project or use the default name provided, and then click **OK**.

The new project is created and the data transformed.

---

---

**Note:** If you view job results while a project is open, it is closed before the new project is created and you are prompted to save any changes.

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## Emailing Checked Rows

This feature allows you to email only rows that have been selected by check marks; it does not save selected rows. For example, those rows that are not applicable to the **Source** tab. The checked rows are automatically saved to an Excel spreadsheet, with the file name created using the name of the tab, in the DataLens directory where the project resides. You can change the file name or save location in the dialog provided.

## Exporting and Importing Projects

The ability to export a project that contains all of the associated source input data, DSA, and modifications is a powerful tool. It allows you to share a complete and cohesive project with others when they import it into the Governance Studio so that identical viewing and reporting can be achieved by multiple people.

### Exporting a Project

1. Open the project you want to export.
2. Ensure that you have completed all project refinements and have transformed all data as appropriate.
3. From the **File** menu, select **Export Project**.

A file save dialog appears with the current project name populated as the file name with a `.ams` file extension.

4. Use the file name and directory provided to save the file in or enter them, and click **OK**.

The project with its data is exported into identified file name and directory for you to share with others.

### Importing a Project

1. From the **File** menu, select **Import Project**.  
A file open dialog appears.
2. Locate and select the project file that you want to import. The file extension must be `.ams`.
3. Click **OK**.

Any open projects are closed and the selected project is opened.



## Basic Tabs

This chapter describes the basic types of tabs that display in Governance Studio.

### Source Tab

The **Source** tab in any existing Governance Studio project displays the input data that can be processed.

id	part_number	description	manufa
500140	502141	0.75MM/3C CONTROLFLEX CY 300/500V GREY IEC332-3C F2 COMPLIANT	Renesas Technology C
500145	502134	0.75MM/5C CONTROLFLEX YY PCU/LSZH/LSZH GREY 300/500V NOD 1-4 + GRN/YLLW	Fenghua Advanced T
500150	502235	0.75MM/SPR B55308 PT1 TYPE 2 PCU/PE/COLL SCRNL/SF/SWA/LSF BLK 24/0.2MM	Broadband TelCom Po
500155	500245	0-80 X 3/16 CLIP PT SOC SET SCR 18-8 SS	IXYS Corp
500160	500784	0-80X 1 18-8SS SOCKET HEAD CAP SCREWS	Solid State Electroni
500165	500554	1 1/4-7X5 1/2 Hx Hd Cap Screw-Gr 5 Zinc Pl	ST-Semiconductors of
500170	500599	1 1/8-12X4 HX HD Cap Scr-Gr 8 Zinc Pl(E)	Alpha Electronics Co
500175	502182	1.5MM/1C 6701B FLEXIBLE BLACK 450/750V B57211 LOW SMOKE HCL 0.5% MAX	ST-Semiconductors of
500180	502106	1.5MM/25C CONTROLFLEX YY 300/500V GREY IEC332-3C F2 COMPLIANT	Semi Elements Inc
500185	502215	1.5MM/2C CONTROLFLEX YY PCU/ PVC/PVC GREY 300/500V CORES NOD 1-2	Manutech Inc
500190	502218	1.5MM/2PR B55308 PT1 TYPE 2 IND AND COLL SCREEN BLUE RP15 7/0.53MM BLU/BLK PRS	Seagate Microelectron
500195	502148	1.5MM/5C CONTROLFLEX SY PCU/ PVC/PVC/GSWB/PVC 300/500V CENELEC COLOUR CORES	Microwave Diode Corp
500200	502217	1.5MM/5C CONTROLFLEX YY PCU/ PVC/PVC GREY 300/500V NOD 1-4 + GRN/YLLW	Newport Components I
500205	502197	1.5MM/SPR B55308 PT1 TYPE 2 COLL SCREEN BLACK RP15 7/0.53MM	Elpida Memory Inc.
500210	502231	1.5MM/SPR B55308 PT1 TYPE 2 PM73479 PCU/PE/COLL SCRNL/SF/SWA/LSF BLK 7/0.53MM	Tottori Sanyo Electr
500215	502223	1.5MM/6C B55308 PT1 T2 PM73479 PCU/PE/COLL SCRNL/SF/SWA/LSF BLK D63 7/0.53MM	Amex Electronics Inc
500220	502220	1.5MM/8C CONTROLFLEX YY PCU/ PVC/PVC GREY 300/500V NOD 1-7 + GRN/YLLW	Teledyne Cougar
500225	500183	1/2-13 X 1" A193 B7 HEAVY HEX BOLT	Crystek Crystals Corp
500235	500803	1/2-13 X 16 NON-STD ALLY SKT CAP SCR	Teledyne Cougar
500240	500467	1/2-13 X 3/4 FLAT PT Soc Set Scr Alloy St-HK	Semi Elements Inc
500245	500370	1/2-13X1 GR2 GALV HEX HEAD BOLT	Ducati Energia Spa
500250	500313	1/2-13X1" SERRATED HEX FLANGE BOLT	LXD Inc
500255	500566	1/2-13X14 Sq Hd Bolt Gr 2	Seaward Electronics I
500260	500820	1/2-13X2 1/2 HOLOKROME SOCKET HEAD CAP SCREW USA	Agilent Technologies
500265	500534	1/2-13X2 3/4 FH SI MACHINE SCREW ZINC PL	Semi Elements Inc
500270	500556	1/2-13X4 1/2 Hx Hd Full Thrd Cap Scr Gr 2	Lapp USA
500275	500283	1/2-13X4.50 W/NYL PTCH ALLOY SKT HD CAP SCRW	Taiyo Yuden Inc

Results Retrieved for job 51

From the **Source** tab you can select one or multiple rows to process using the DSA. Rows are selected using the following methods:

#### All rows in the table

Use **Ctrl+a**.

#### Discontinuously rows

Press and hold **Ctrl** and click on each row to select.

#### Group of adjacent rows

Press and hold **Shift** then click the first row and then the last in the group you want to select.

For more information, see "[Running a Governance Studio Project](#)" on page 3-1.

The fields in the table, with the exception of those in the unique id column, can be edited. You can double-click in a field, edit it, and then either press **Enter** or click

outside the edited field. Changed fields are highlighted green so that you can easily identify them before processing. The edited data is available for further processing.

**Tip:** When you select rows, you can copy them to the clipboard using Ctrl+c. In another Windows application, such as Excel, you can then paste the data into the open file using Ctrl-v.

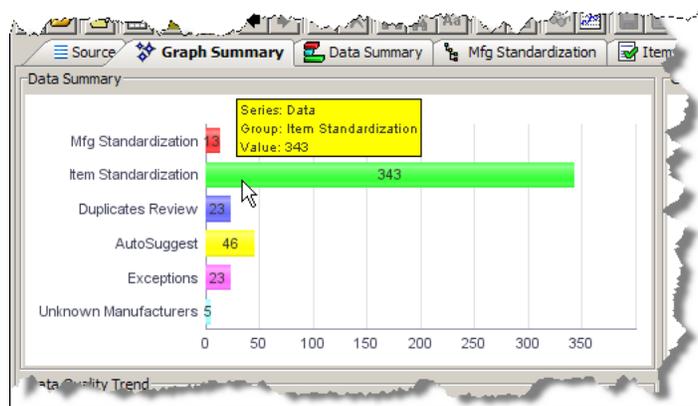
## Graph Summary Tabs

The **Graph Summary** tabs appear in the list of tabs only if an output step in your DSA has a DGS output type of **Summary Data for Graphing** defined. Depending on your DSA, it is possible that there are too many graphs to appear on one page in the Governance Studio.

You can define the number of graphs you want to appear (see "[Configuring a DSA for Governance Studio](#)" on page 2-1.) Additional Graph Summary tabs are created for additional graphs until all of the graphs have been accounted for.

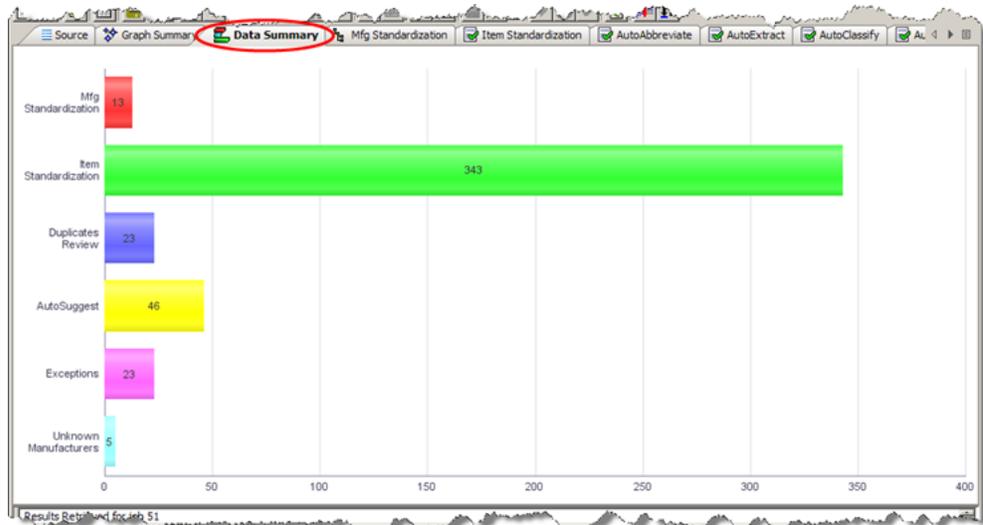


When you hover your cursor over any of the bars on this tab, a tooltip describes the information shown in that bar. You can double-click on the bar in the graph to activate the Output tab (if there is a tab associated with that graph data) that corresponds to the graphed data.



## Data Summary Tab

The **Data Summary** tab displays a bar chart of the number of rows contained in each of the output data tabs. Unlike the **Graph Summary** tabs, there can be only one **Data Summary** tab. It appears by default unless you disable the option (see "[Configuring a DSA for Governance Studio](#)" on page 2-1.) The **Data Summary** tab graph shows you at a glance the number of rows of data you have in each of the Output tab tables. For example, if an Output tab table contains exception data and the number is very large relative to the other output steps, you would be able to identify this problem easily. Double-clicking on any bar in the graph immediately activates the Output tab table as identified to the left of the bar.





## DSA Output Tabs

This chapter explains how to use the Output tabs created by your DSA so that you can review your data.

### Data Remediation Output Tabs

The "Data Remediation" Output tabs are identified by the green check mark icons on the tab. These types of tabs contain tables of output data and correspond to a DSA output step with the output type of 'Data Remediation'. Data in these tabs may be selected for output to a file, edited, emailed to others, or run as input to a synchronous job. The following figure shows an example of a 'Data Remediation' Output tab.

The screenshot displays the Oracle DataLens Governance Studio interface. The main window shows a table with 22 rows of data. The table has columns for 'id', 'part\_number', 'description', 'QI', 'Item\_Definition\_Name', 'Att\_1\_Name', 'Att\_1\_Text', and 'Att\_2\_Name'. The first row is highlighted in yellow and has a green checkmark in the 'id' column. The table contains various medical supplies such as screws, gloves, and caps.

id	part_number	description	QI	Item_Definition_Name	Att_1_Name	Att_1_Text	Att_2_Name
500330	500390	1/4-20 X 1/2" FAT MED CAP SCR PRM STN STL GLV	68	Cap_Screws	Dimension	1/4-20 X 0.5"	Diameter_3rea
500795	500357	3-1/2" 1750/BOX GUARD DOG DECK SCREWS	65	Screw	Type_drive_head_style		Diameter_3rea
500820	500091	4/48 X 1/4 CLIP POINT SOCKET SET SCR.	64	Set_Screws	Type_drive_head_style		Diameter_3rea
500955	500402	8/32 X 1/4 STAIN HALF DOG SET SCREW	64	Set_Screws	Type_drive_head_style		Diameter_3rea
500975	500529	8-32X3/4 PI St Thumb Screw w/Shoulder	68	Shoulder_Screws	Type_drive_head_style		Diameter_3rea
501070	500861	M4X13MM 6MM HX AL MET HX ML-FEML STNDOFF	59	Spacers_or_Standoffs	Size	6 mm, M4	Inside_diameter
501075	500860	M4X6MM 6MM HX AL MET HX ML-FEML STNDOFF	59	Spacers_or_Standoffs	Size	6 mm, M4	Inside_diameter
501165	500836	M8 x 140mm CAP SCR ALLY HX HD	68	Cap_Screws	Dimension	M8 X 5.512"	Diameter_3rea
502010	22127	SRGCL GLV NSTRL LATEX-FREE POLY COAT POWDER-FREE SZ 8.0 MED WM	66	Medical_Gloves	TYPE		COATING
502015	60480	NSTRL LATEX-FREE POLY COAT POWDER-FREE SZ 8.0 LG BRWN SURG GLV	66	Medical_Gloves	TYPE		COATING
502025	60483	STRL LATEX-FREE PC PF SURG GLV SIZE 7.5 SMAL	63	Medical_Gloves	TYPE		COATING
502050	0735563_BX	WITH NEU-THERA STRL LF POLY COATED POWDER-FREE SURG GLV SIZE 7.0 MED	66	Medical_Gloves	TYPE		COATING
502135	0702597_BX	MED BLU SURG STERILE NITRILE-LATEX BLEND POLY COATED PF GLV SIZE 8.5	66	Medical_Gloves	TYPE		COATING
502165	0434977_PK	GLVS EXAM NITRILE POWDER NON-STERIL MEDIUM SIZE 8.0	66	Medical_Gloves	TYPE		COATING
502220	L5283-51	CTRL ATMOSPHERE PC PF BX GL	67	Glove_Boxes	TYPE	Controlled Atmosphere	PRESSURE_COI
502225	L5283-52	PF PC GLV BX CTRL ATMOSPHERE 230V	67	Glove_Boxes	TYPE	Controlled Atmosphere	PRESSURE_COI
502230	L5283-53	BOX GLOVE DBL SS CNTRL ATMOSPHER PRS CNTR	67	Glove_Boxes	TYPE	Controlled Atmosphere	PRESSURE_COI
502235	L5283-54	DBL SS CNTRL ATMOSPHER GLV BX	67	Glove_Boxes	TYPE	Controlled Atmosphere	PRESSURE_COI
502240	L5283-55	DBL SS CA BOX GLV W/ PRESSURE CNTRL	67	Glove_Boxes	TYPE	Controlled Atmosphere	PRESSURE_COI
502245	L5283-56	BOX GLOVE DBL SS CA W/ PRSS CNT	67	Glove_Boxes	TYPE	Controlled Atmosphere	PRESSURE_COI
502250	L5283-57	PC BX GLV DBL SS MULTI-HAZARD P-F MOD	67	Glove_Boxes	TYPE	Multi-Hazard	PRESSURE_COI
502255	L5283-58	DBL SS MULTI-HAZARD PC GLV BOX PUR FIL MOD	67	Glove_Boxes	TYPE	Multi-Hazard	PRESSURE_COI

### Output Tab Functions

The following sections describe how to use Output tabs.

#### Row Selection

You can select a single row or multiple rows for additional processing using the following methods:

**All rows in the table**

Use **Ctrl+a**.

**Discontinuously rows**

Press and hold **Ctrl** and select the check box of each row you want to process.

**Group of adjacent rows**

Press and hold **Shift** then select the check box of the first row, and then select the check box of the last row in the group of adjacent rows that you want to process.

ITUI	Batch Type	Org	Source System	Batch Id	Source System Item	Item Number	Inventory Item Id	QI	Description
<input type="checkbox"/>	235	CR	SCS	External	B1135	SourceRef_135	10135	501485	73 X7R, 5 %, 16 Volts, .47 Uf, 0805, Tape And Reel
<input checked="" type="checkbox"/>	236	CR	SCS	External	B1136	SourceRef_136	10136	501490	73 X7R, 10 %, 50 Volts, .15 Uf, Molded, Bulk, Radial
<input type="checkbox"/>	239	CR	SCS	External	B1139	SourceRef_139	10139	501505	73 X7R, 5 %, 50 Volts, .015 Uf, 1206, Tape And Reel
<input type="checkbox"/>	244	CR	SCS	External	B1144	SourceRef_144	10144	501550	73 Z5U, 20 %, 50 Volts, 3.3 Uf, Conformal, Radial
<input checked="" type="checkbox"/>	245	CR	SCS	External	B1145	SourceRef_145	10145	501555	73 Np0, 5 %, 100 Volts, .0022 Uf, Molded, Bulk, Radial
<input checked="" type="checkbox"/>	247	CR	SCS	External	B1147	SourceRef_147	10147	501575	73 X7R, 10 %, 50 Volts, .015 Uf, Molded, Bulk, Radial
<input checked="" type="checkbox"/>	252	CR	SCS	External	B1152	SourceRef_152	10152	501600	73 X7R, 10 %, 100 Volts, .047 Uf, 0805
<input checked="" type="checkbox"/>	255	CR	SCS	External	B1155	SourceRef_155	10155	501625	68 X7R, 10 %, 630 Volts, .001 Uf, Tape And Reel
<input checked="" type="checkbox"/>	259	CR	SCS	External	B1159	SourceRef_159	10159	501650	73 XSR, 20 %, 10 Volts, 4.7 Uf, 1210, Tape And Reel

**Copying Data**

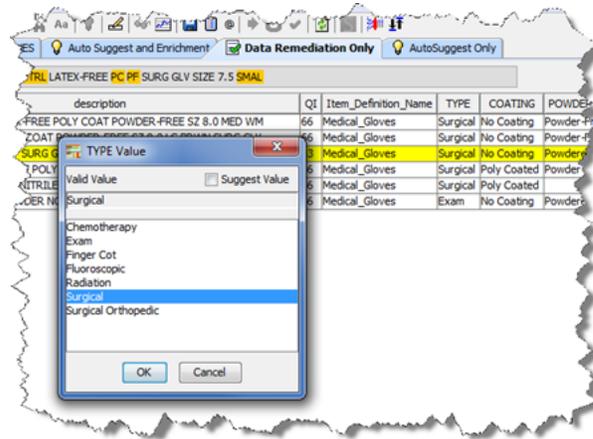
You may right-click on any row in a Governance Studio table and copy the data in the cell that you are hovered over to the clipboard. Data that has been copied into the clipboard may then be pasted into another application or into a different Output tab table in the Governance Studio.

ITUI	Batch Type	Type	Match Status	Org	Batch Id	Source System	Item Number	Source System Item	Inventory Item Id	Description
<input type="checkbox"/>	240	CR	ENR	REPROCESS	SCS	B1140	External	10140	SourceRef_140	501510 RADIAL, B CSE 10UF, 25V
<input type="checkbox"/>	249	CR	ENR	REPROCESS	SCS	B1149	External	10149	SourceRef_149	501585 RADIAL, 2.2UF, A CSE 3V
<input type="checkbox"/>	251	CR	ENR	REPROCESS	SCS	B1151	External	10151	SourceRef_151	501595 RADIAL, 15UF, 35V, 10%
<input type="checkbox"/>	253	CR	ENR	REPROCESS	SCS	B1153	External	10153	SourceRef_153	501605 RADIAL, 3.3UF, 25V, 20%
<input checked="" type="checkbox"/>	254	CR	ENR	REPROCESS	SCS	B1154	External	10154	SourceRef_154	501615 RADIAL, 10UF, 50V, 10% TOLERANCE, HERM SLD, 50V
<input type="checkbox"/>	262	CR	ENR	REPROCESS	SCS	B1162	External	10162	SourceRef_162	501625 C, 470UF, 8X11.5 L
<input type="checkbox"/>	263	CR	ENR	REPROCESS	SCS	B1163	External	10163	SourceRef_163	501635 C, 390UF, 12.5X20

For more information about context-sensitive menus in task panes, see "[Top Pane Functions](#)" on page 5-9.

**Adding Valid Attribute Values**

You can review and add new values for an attribute based on knowledge acquired from all of the data lenses defined in the Item Definition in your DSA. On any Output tab, you can by double-clicking in a cell for any attribute.

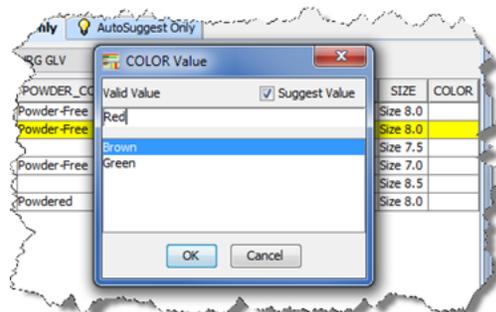


The resulting **Attribute Value** dialog box displays all of the valid values for the selected attribute; the attribute name is in the title of the dialog box. This list of valid values are retrieved from the corresponding data lens associated with the Item Definition of the item being remediated.

You can change the term in the selected cell by double-clicking on one of the valid values. Using the preceding example, you could change the term 'Surgical' to 'Chemotherapy' just by double-clicking on it.

If the attribute is based on attribute rules that parse based on Regular Expressions or are parsing Units Of Measure, the list of values is not be returned. However, you can manually add the missing values using the **Attribute Value** dialog box by right clicking on an empty cell, entering a value manually, and then clicking **OK**. The cell is updated with the new value.

You can enter your own values into an empty cell for consideration in your data enrichment task though these values are not importable. These value suggestions are made using the **Attribute Value** dialog box by double-clicking on a cell, select the **Suggest Value** check box, entering the value and clicking **OK**.



The cell is then updated with the new value. In this example, 'Red' is a new suggestion for valid parsing though since it is not associated with any of the valid values shown it is not automatically importable into your data lens. When imported into Knowledge Studio, it is displayed as a suggestion for your review for the 'COLOR' attribute.

Another type of a suggestion that is not importable is a non variant based suggestion for a new valid value for an attribute. In this example, 'COLOR' does not have 'No Color' as a color in the list of valid values so without basing it on a variant form in the data you would be suggesting that it should be a valid value of this attribute.

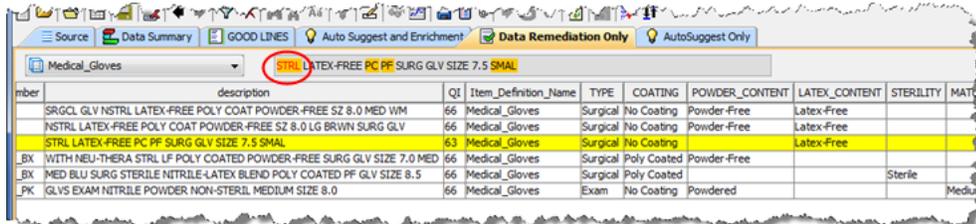
For a suggestion to be importable, they must be uniformly formatted and have all the information that is required to import into the data lens and create new rules.

To create a suggested value:

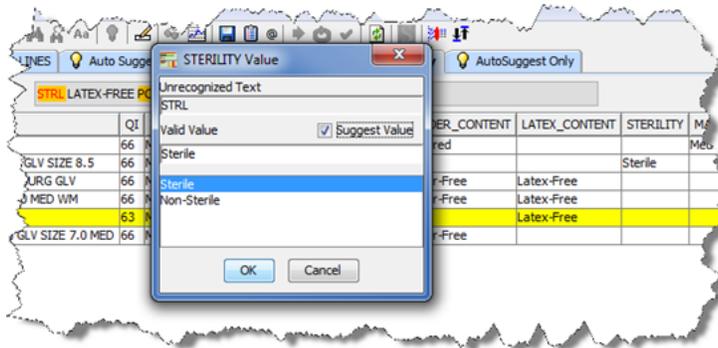
1. Select an AutoSuggest or data remediation tab.
2. Select a line of data.

The unrecognized text in the line of data is highlighted in the text box adjacent to the Item Definition list box.

3. Select the unrecognized text from the text box as in the following example:



4. Click and drag the highlighted text to a blank cell in the attribute column that you want to add the variant to; your cursor becomes an arrow when the action is allowed.

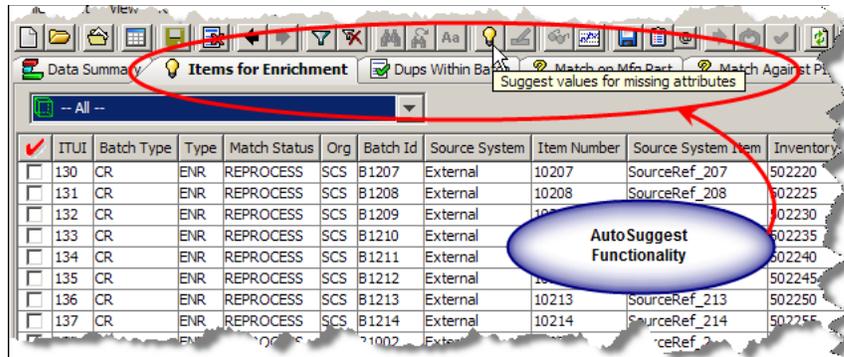


In this example, 'STRL' was highlighted in the text in the text box and drug to the STERILTY attribute field for that line of data. The STERILTY Value dialog appears with the dragged variant text in the Unrecognized text field. The closest valid value that should be associated with this variant text is selected ('Sterile' in this case) though you could change it by selecting one of the other valid values. This type of user suggestion is similar to the suggestions from AutoSuggest.

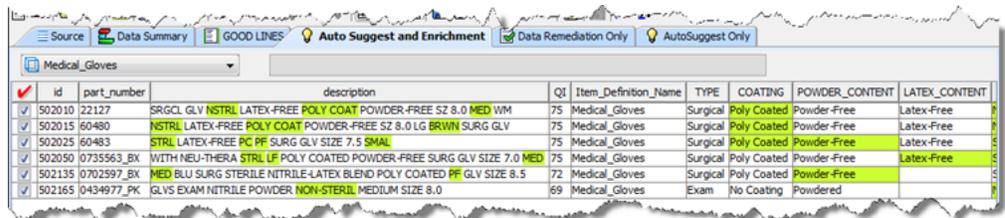
5. (Optional) You can click the **Suggest Value** check box and edit the **Valid Value** text box to create a user suggestion. This type of suggestion is generally not well formed so it is not importable into your data lens though it can follow through the enrichment process so that you can manually update your data lens.
6. Click **OK** to complete the addition of the valid value.

## Data Remediation with AutoSuggest Output Tabs

The "Data Remediation with AutoSuggest" tab output is identified by the light bulb icon. Data in these tabs may access the Governance Studio AutoSuggest feature; this feature automatically predicts attributes that may have been missed due to misspellings and abbreviations or missing grammar. When this tab is not empty and there are suggested values for missing attributes available, the light bulb button is active. If no suggestions were found, this button is inactive (dimmed). The following figure shows an AutoSuggest table where the suggestion button is available.



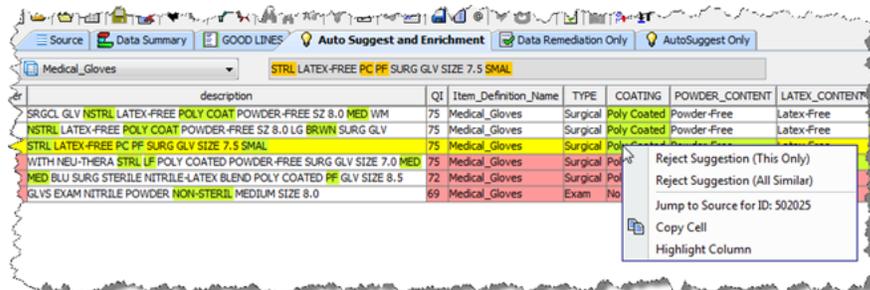
After clicking on an AutoSuggest Output tab, a table of data designated for output by the respective output step in the DSA is displayed. To view suggestions, click on the **AutoSuggest light bulb** button or from the **Run** menu, select **AutoSuggest**. Suggestions are now highlighted in green as shown in the following figure.



### AutoSuggest Feature

There are several operations that are allowed in the AutoSuggest table to process your data further and make it easier to edit, move, copy or accept suggestions. In addition to the normal table functions available to Output tab tables, the AutoSuggest table allows you to accept or reject suggestions, known as switching augmentations.

Right-clicking an attribute cell in a line (this is not applicable to the description) allows you to choose one of the two accept or reject suggestions.



The suggestion options are used to toggle between accepted or rejected for the given cell. You can choose to switch the state of just the given cell with these options as follows:

#### Reject/Accept Suggestion (This Only)

Only the given line is switched.

#### Reject/Accept Suggestion (All Similar)

All lines similar to the given line is switched. Similar suggestions are for the same data lens, item definition, and attribute with the same variant form of the full form.

The following figure shows the results of the use of both Switch Augmentation options in the COATING column. The cells are now highlighted in pink showing that the attribute has been rejected; you can return the cell to accept by using the same option again.

The figure consists of two screenshots of a data table interface. The top screenshot shows a table with columns: id, part\_number, description, QI, Item\_Definition\_Name, TYPE, COATING, POWDER\_CONTENT, and LATEX\_CONTENT. A row with 'id' 502015 and 'part\_number' 60480 is highlighted in pink. A red arrow points to this row with the text 'This Only'. The bottom screenshot shows the same table with a different row highlighted in pink, 'id' 502010 and 'part\_number' 22127. A red arrow points to this row with the text 'All Similar'.

When you have completed analyzing suggestions by rejecting the bad ones and keeping the good ones you can select the rows you want to complete the enrichment process by clicking the check box to the left of the row to select it. Once all of the rows you to be enriched are selected, click the **Re-run** button to send the checked rows to a secondary DSA process to complete the process. The checked rows move from the AutoSuggest tab if the enriched attributes and/or additions to the description increase the **QI** to the point where the row(s) no longer require enrichment.

---

**Note:** While data enrichments are saved (both AutoSuggest and user suggestions), the AutoSuggestions themselves are not retained across sessions. In other words, after you reload a project, you no longer see the AutoSuggestion colorization and can no longer switch between accepting and rejecting them.

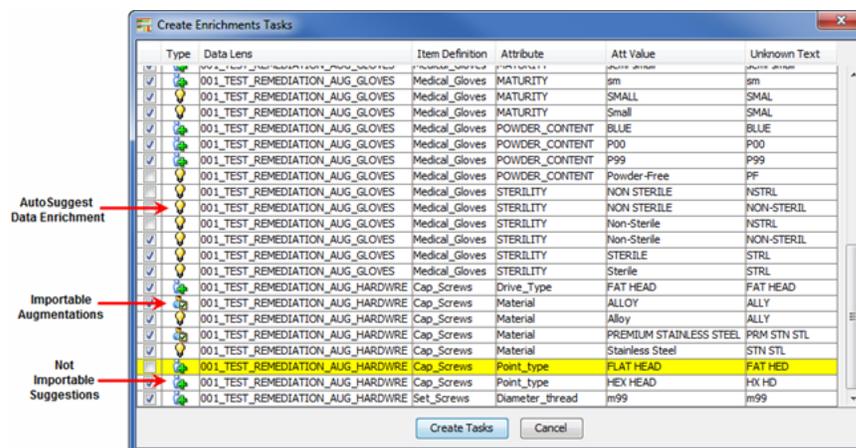
---

## Creating Data Enrichment Tasks

You can create one or more tasks from all of the data enrichment suggestions (AutoSuggestions, User suggestions both importable and not importable) that you have effected in your project. You then import into your data lens (or all data lenses in a data lens group) in the Knowledge Studio to update its semantic knowledge thus completing the data enrichment process.

To create an enrichment task from any project tab:

1. Remediate your data using the data remediation techniques described in the preceding sections including adding valid values and AutoSuggest augmentation.
2. (Optional) On any AutoSuggest tab, approve or reject the AutoSuggest suggestions.
3. Click the **Apply Enrichments** button on the toolbar.



All of the available types of data enrichment are displayed including AutoSuggestions and both types of user suggestions, importable and not importable. Each of the three types is denoted with a different icon, as in the preceding example, so make identification easy. The default is that all enrichments are selected for task creation though this example shows that you can pick and choose items for enrichment.

4. You can deselect any of the data enrichments and they will not be included in the task.
5. Click **Create Tasks**.

The task is created with you assigned to it and the task number is displayed in the Status Field. The file that you can import into your data lens in the Knowledge Studio is stored on your Oracle DataLens Server.

You can view your enrichment tasks along with all of your other tasks, see "[View My Tasks](#)" on page 5-14.

## Match Results Tabs

A matching application is a set of two DSAs that you use to find appropriate data records that match pre-specified criteria. A matching process is built upon a data lens (or set of data lenses), used to recognize items by their attributes and to rank attributes in order of importance.

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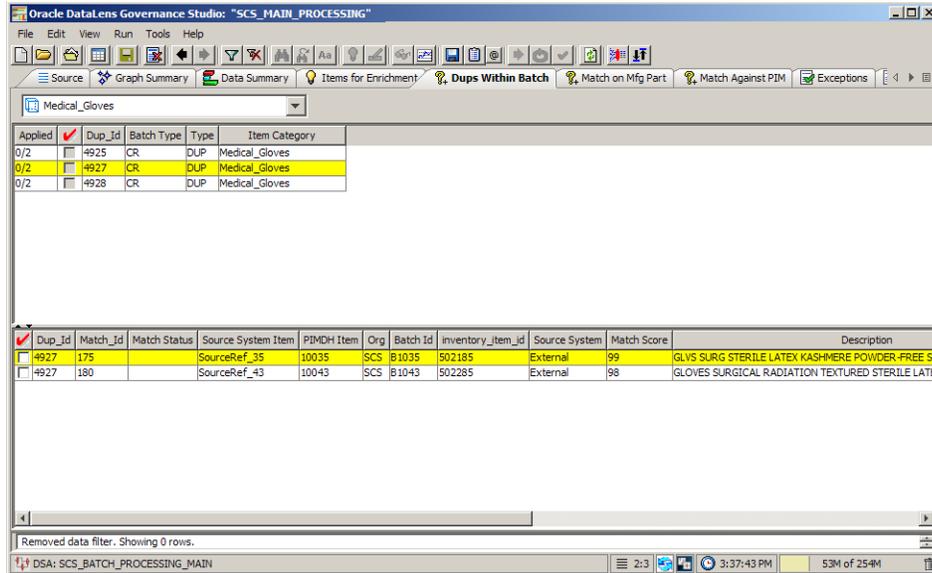
**Note:** The matching capability is an additional Enterprise DQ for Product component that is purchased and licensed. If match result Output tabs are expected though are not displayed, this functionality may not be activated. For more information, see Oracle Enterprise Data Quality for Product Data Oracle DataLens Server Administration Guide. To purchase this additional component, contact Oracle Sales.

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The output of the matching process is used in a DSA output step. There are two match result output types variations available for you to create in your DSA:

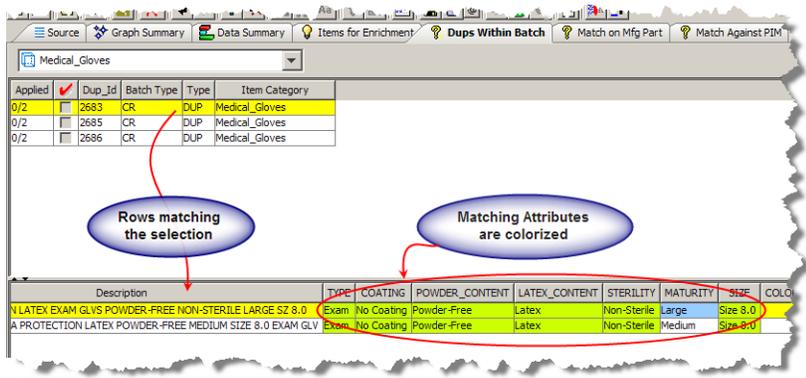
- Single Selection Review, Approve, and Route
- Multiple Selection Review, Approve and Route

If you have created a match results output step in your DSA, then the corresponding tab appears in your Governance Studio project. The following figure shows a project with a sample match result set.



The Output tabs that contain data duplicates display a parent-child view of the match results. In a New Item Introduction use case, the system can match the new item against any existing items in your Item Master. The inbound row will be classified, its key attributes extracted and standardized, and a Semantic Key is created. This Semantic Key is used to find any potential duplicate rows in the Items Master. If matches for the incoming row are found in the item master, the system can route the row to a potential duplicates Output tab and give you a parent child view of the new record on the top pane, and the potential matches in the bottom pane.

The split screen function is only used for match result Output tabs. Once a row is selected from the top pane, the corresponding matched candidates for that row on the bottom pane are highlighted as in the following figure.



The Governance Studio output is color coded in order to highlight key attributes participating in the match. Additionally, the attributes are colored based on the type of match rule that has been triggered on the attribute. Attributes are colored as follows:

**Green Attributes**

Match the parent row and were set to required in the item specific match rules.

**Blue Attributes**

Match the parent row and were set to participating, but not required in the item-specific match rules.

**Blank and un-highlighted**

Indicates that the matched row did not contain a value for that particular attribute so that attribute did not participate in the match score.

**Populated and un-highlighted**

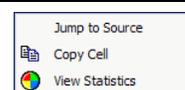
Indicates that the matched row contains a value for that attribute, but that the attribute value for the matched row did not match the attribute value for the parent row.

**Top Pane Functions**

You can use the context-sensitive menu by right-clicking a data record and use the options as follows:

**Jump to Source**

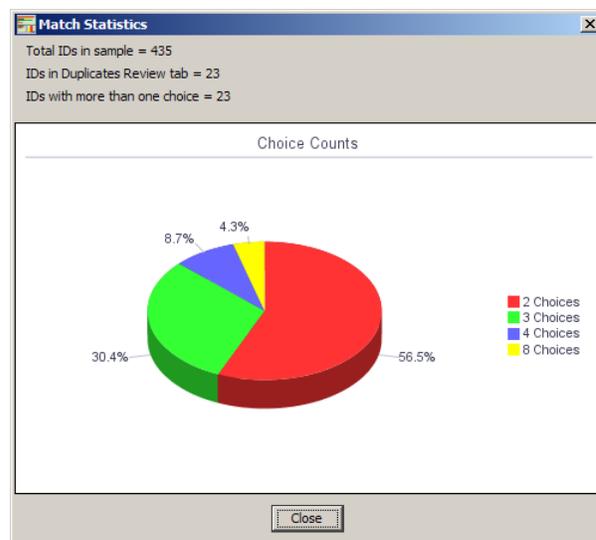
Activate the **Source** tab with the same selected output data selected. For example, this allows you to view the ID if it were not included in the output.

**Copy Cell**

Copy the cell for downstream processing in a data lens or to another worksheet or file.

**View Statistics**

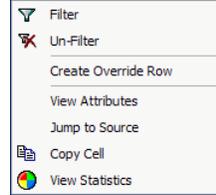
Displays number of choices per record; use this option for Match Process results to produce a graph of the breakout of rows with matching records as in the following figure:

**Bottom Pane Functions**

Similar to the top pane functionality, you can right-click on a matched row to use the following additional context-sensitive menu options.

**Filter**

Allows you to filter the displayed data based on text or a text pattern. The filter operation applies only to the currently selected tab. Only the rows that match the text entered in the **Filter** dialog are displayed in the table. For more information about filtering, see "Filtering Data" on page 1-13.



**Un-Filter**

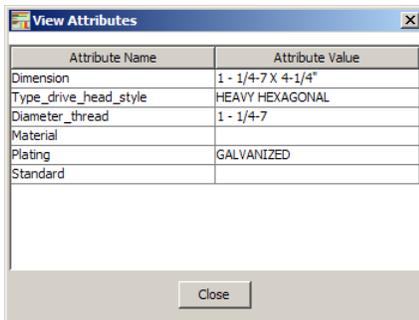
Removes the filter applied to the selected tab so that all of the data is displayed.

**Create Override Row**

This functionality is detailed in the Survivorship Process section.

**View Attributes**

Provides a table view of the attributes for the selected row as in the following figure.



**Working with a Match Set**

The Governance Studio interprets a set of results and populates match results tabs based on:

- the DSA option settings indicating a matched set, and
- the accuracy of the attribute naming, order and structure.

You review the rows and determine the matching rows based on the defined use case as in the examples in the following sections.

**Request for Quote**

You select a single match item for each requested item to be quoted and the Governance Studio identifies the best record to for use in the quote based on the information in the data lens and other industry related criteria.

In the following figure, the selected **Dup\_Id** is 6222 for which there are two items in the item master that can be quoted. To process the request for the quote process, you would select the best match based on the information provided by the system and possibly other criteria, such as the supplier or margin, and then select a single row to continue to be quoted. In this case, the Governance Studio determined that record 156 was the best quotable item for the **Dup\_Id** 6222.

Applied	Dup_Id	Batch Type	Type	Item Category
<input type="checkbox"/>	6219	121	DUP	Medical_Gloves
<input type="checkbox"/>	6221	143	DUP	Medical_Gloves
<input checked="" type="checkbox"/>	6222	144	DUP	Medical_Gloves

Dup_Id	Match_Id	Match Status	Source System Item	PIMDH Item	Org	Batch Id	Inventory_Item_Id	Source System	Match Score	Description	TYPE	COATING	POWDER_C
<input checked="" type="checkbox"/>	6222	156	048180	SourceRef_6	CR	External	10006	SCS	99		Surgical	No Coating	Powder-Free
<input type="checkbox"/>	6222	181	GL152290	SourceRef_44	CR	External	10044	SCS	98		Surgical	No Coating	Powder-Free

Once the record for quote has been selected, you can move the record to a downstream process using the options previously described.

### Functional Equivalents Cross Reference

A second popular use case is the creation of a functional equivalents cross-reference to be used by web-based merchandising applications. In this case, a cross reference of all the functional equivalents found in the item master by the Oracle DataLens Server corresponding to **Dup\_Id** 6222 is created. In the following figure, **Match\_Id** 156 and 181 are selected as the two functional equivalent records for record 12.

Applied	Dup_Id	Batch Type	Type	Item Category
<input type="checkbox"/>	6219	121	DUP	Medical_Gloves
<input type="checkbox"/>	6221	143	DUP	Medical_Gloves
<input checked="" type="checkbox"/>	6222	144	DUP	Medical_Gloves

Dup_Id	Match_Id	Match Status	Source System Item	PIMDH Item	Org	Batch Id	Inventory_Item_Id	Source System	Match Score	Description	TYPE	COATING	POWDER_C
<input checked="" type="checkbox"/>	6222	156	048180	SourceRef_6	CR	External	10006	SCS	99		Surgical	No Coating	Powder-Free
<input checked="" type="checkbox"/>	6222	181	GL152290	SourceRef_44	CR	External	10044	SCS	98		Surgical	No Coating	Powder-Free

Once a record has been selected, you can process the checked rows with the options previously described.

The **Dup\_Id/Match\_Id** relationship can be used as a cross-reference, and by a downstream process, such as a PIM to create the cross-reference.

## Survivorship Process

This advanced option assists in an item survivorship process by creating an override row that can then be manipulated to create a blended record of all possible duplicates. This is used during a system consolidation process.

1. Begin creating an override row by selecting a duplicates tab.
2. In the upper-pane, locate a duplicate to be merged and click the adjacent check box.
3. In the lower-pane, right-click on the duplicate row you want to merge and select **Create Override Row**.

Description	TYPE	COATING	POWDER_CONTENT	LATEX_CONTENT	STERILITY	MATURITY	SIZE	COLOR	match_thresh
FRILE LATEX PO CO POWDER-FREE BRWN SIZE 7.0	Surgical	No Coating	Powder-Free	Latex	Sterile	Large	Size 7.0		252
ADIATION TEXTURED STERILE LATEX POWDER-FREE SIZE 7.0	Surgical	No Coating	Powder-Free	Latex	Sterile		Size 7.0		252
ADIATION TEXTURED STERILE LATEX POWDER-FREE SIZE 7.0	Surgical	No Coating	Powder-Free	Latex	Sterile		Size 7.0		252

Override Row

The selected override row is highlighted in orange and is indicated in the Match Status column by **MO** (manual override). Once an override row is selected, you can set an override cell from the context-sensitive menu or remove the override row selection.

In the following example, the third row has been selected as the override row, and the contents of the **Maturity** column (attribute) in the first row has been selected as an override cell.

Description	TYPE	COATING	POWDER_CONTENT	LATEX_CONTENT	STERILITY	MATURITY	SIZE	COLOR	match...
E SUR STERILE LATEX PO CO POWDER-FREE BRWN SIZE 7.0	Surgical	No Coating	Powder-Free	Latex	Sterile	Small			
SURGICAL RADIATION TEXTURED STERILE LATEX POWDER-FREE SIZE 7.0	Surgical	No Coating	Powder-Free	Latex	Sterile	Small			
SURGICAL RADIATION TEXTURED STERILE LATEX POWDER-FREE SIZE 7.0	Surgical	No Coating	Powder-Free	Latex	Sterile	Small			

The resulting blended record contains all the information from the override row with the exception of the size attribute, which is extracted from the override cells. You can select an unlimited number of override cells to create the blended record. Once the rules for the composite record have been created, the rows are selected.

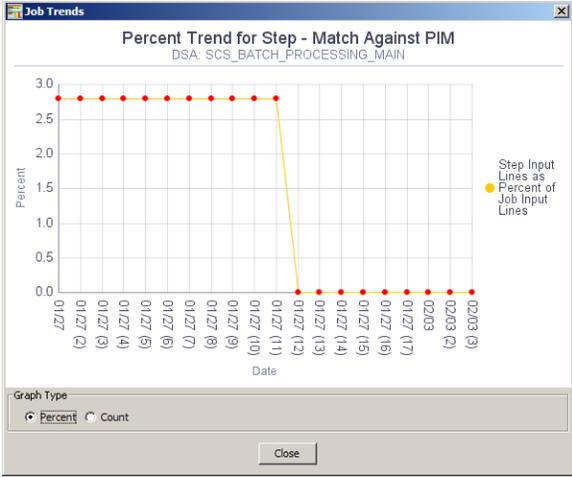
Description	TYPE	COATING	POWDER_CONTENT	LATEX_CONTENT	STERILITY	MATURITY	SIZE	COLOR	match...
E SUR STERILE LATEX PO CO POWDER-FREE BRWN SIZE 7.0	Surgical	No Coating	Powder-Free	Latex	Sterile	Small	Size 7.0		252
SURGICAL RADIATION TEXTURED STERILE LATEX POWDER-FREE SIZE 7.0	Surgical	No Coating	Powder-Free	Latex	Sterile	Small	Size 7.0		252
SURGICAL RADIATION TEXTURED STERILE LATEX POWDER-FREE SIZE 7.0	Surgical	No Coating	Powder-Free	Latex	Sterile	Small	Size 7.0		252

All of the additional options create a new row for the blended record tagged with an **MO** for Manual Override in the matched **Match Status** field. This informs the downstream survivorship process that this row is the override, which contains the blended record information.

**Tip:** You can use a regular expression to filter your data to make it easier to work with a subset of the data and find the row that you want to use as the override row. For example, if your data contains an ellipsis (...) then you could filter your data using this as part of the regular expression with the text you are searching for, such as '...abc'. The filtered results would return only those rows that meet that condition. As a result, only checked rows of the filtered data are processed rather than the entire set so that you can easily create your override row. You first must remove the filter to remove the override row from the set of data. For more information about filtering, see ["Filtering Data"](#) on page 1-13.

## Trend Analysis

Trend analysis is a Governance Studio feature that allows you to see a graph of the output data row count for various job runs you have made over time for a given output step. You can use this feature on any tab by clicking the **Trend Analysis** button or from the **View** menu, select **Show Trend**.



You can toggle the view of the graph as a percentage or count of the rows in the selected Output tab using the **Graph Type** options provided.

Though this functionality is available on all tabs, if trend data is not available, a message indicating this is displayed.

## Create Task from Checked Rows

You can select one or more rows to create a task for another user to update the data lens. This capability is available on any Output tab.

1. From the **Run** menu, select **Create Task from Checked Rows**.

---

---

**Note:** If the Output tab is a split-screen, you must choose whether you want to use total number of rows that include both the detail and total number of checked rows.

---

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The 'Create Task' dialog box contains the following fields and options:

- User:** A dropdown menu showing 'A User'.
- Description:** A text field containing 'SCS\_MAIN\_PROCESSING, Tab: Dups Within Batch, Job ID: 31'.
- Details:** An empty text area for additional information.
- Attachment File Type:** Radio buttons for 'MS Excel File', 'CSV File', and 'Tab-separated Text File'.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

2. Select the user to whom this task will be assigned.
3. Edit the automatically populated **Description** field if you want. It is populated with the DSA name, Output tab that the task is being created from, and a unique Job ID for the task (though this is not recommended.)

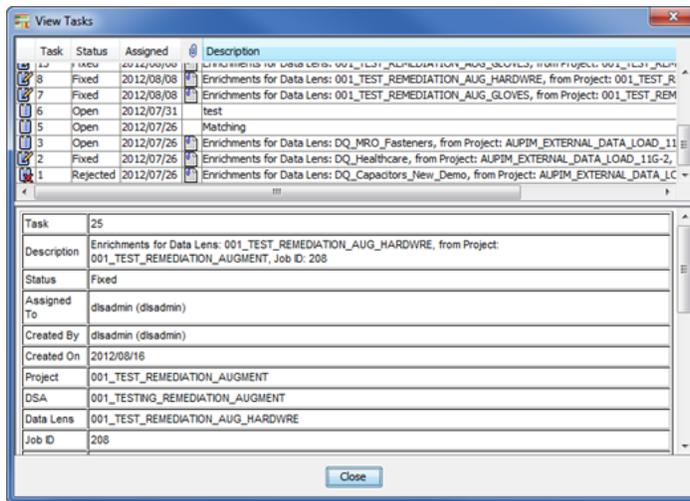
4. Add all instructions for user so that the task can be accomplished in the **Details** field.
5. Select the type of file to contain the selected to attach to the task using the options.
6. Click **OK**.

The task is created and an email containing the task detail is sent to the assigned user. Attachments can be downloaded by the assigned user as described in the View My Tasks section.

## View My Tasks

You can see if you have any tasks, including enrichment tasks, assigned to you with this feature.

From the **View** menu, select **View My Tasks**.



All assigned tasks are displayed in the top pane, while the bottom pane provides the details for the selected task. The information displayed by column left to right is:

- Status icon representing the status.
- Task number assigned to each task.
- The status of the task, which can be changed, and corresponds to the status icon. A task can be Open, Fixed, Rejected, Closed, or Deleted.
- The date the task was assigned to you.
- An attachment for the task.
- The description of the task.

Data enrichment tasks descriptions are automatically created identifying them as such with the data lenses that are effected and the DSA Job ID. For example, 'Enrichments for Data Lens: 001\_TEST\_REMEDIATION\_AUG\_GLOVES, from Project: 001\_TEST\_REMEDIATION\_AUGMENT, Job ID: 132'. Right-clicking one of these tasks activates the **View Enrichments** option.

---

**Note:** Though the fields in the bottom pane appear to be editable, the changes are not saved.

---

The context-sensitive menu in the top pane is activated by right-clicking the attachment icon and is used as follows:

### Change Task Status

See ["Changing the Task Status"](#) on page 5-16.

	Change Task Status	s
	Download Attachments	d
	View Enrichments	v
	Create Task	c

### Download Attachments

You can download the file that was saved when the task was created for use in completing the task. A file save dialog appears for you to select the directory in which to save the file.

### View Enrichments

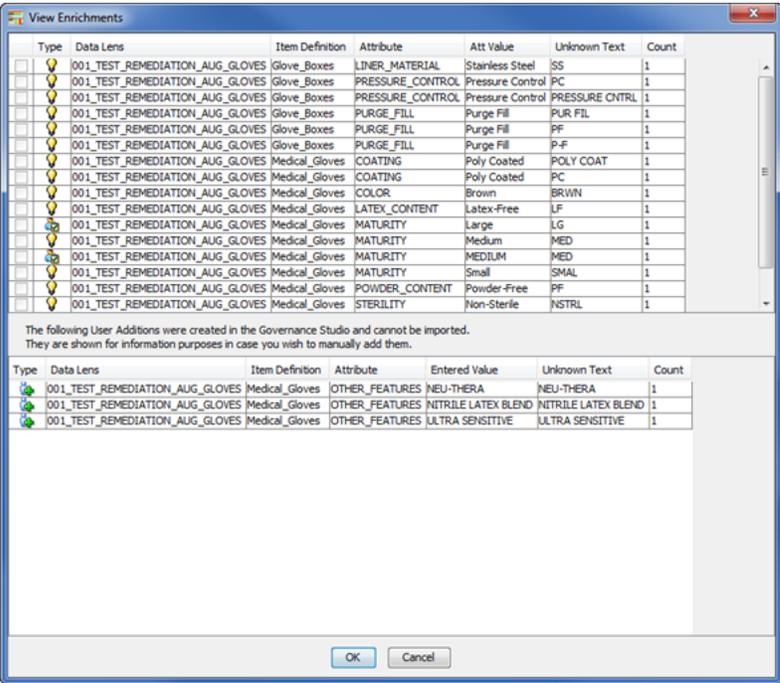
This option is active when the selected task is a data enrichment task. See ["Viewing Data Enrichment Tasks"](#) on page 5-15.

### Create Tasks

See ["Creating a Task"](#) on page 5-16.

## Viewing Data Enrichment Tasks

From the View Task dialog, locate a data enrichment task (for example, 'Enrichments for Data Lens: 001\_TEST\_REMEDIATION\_AUG\_GLOVES, from Project: 001\_TEST\_REMEDIATION\_AUGMENT, Job ID: 132'), right-click it and select **View Enrichments**.



Type	Data Lens	Item Definition	Attribute	Att Value	Unknown Text	Count	
		001_TEST_REMEDIATION_AUG_GLOVES	Glove_Boxes	LINER_MATERIAL	Stainless Steel	SS	1
		001_TEST_REMEDIATION_AUG_GLOVES	Glove_Boxes	PRESSURE_CONTROL	Pressure Control	PC	1
		001_TEST_REMEDIATION_AUG_GLOVES	Glove_Boxes	PRESSURE_CONTROL	Pressure Control	PRESSURE CNTRL	1
		001_TEST_REMEDIATION_AUG_GLOVES	Glove_Boxes	PURGE_FILL	Purge Fill	PUR FIL	1
		001_TEST_REMEDIATION_AUG_GLOVES	Glove_Boxes	PURGE_FILL	Purge Fill	PF	1
		001_TEST_REMEDIATION_AUG_GLOVES	Glove_Boxes	PURGE_FILL	Purge Fill	P-F	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	COATING	Poly Coated	POLY COAT	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	COATING	Poly Coated	PC	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	COLOR	Brown	BRWN	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	LATEX_CONTENT	Latex-Free	LF	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	MATURITY	Large	LG	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	MATURITY	Medium	MED	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	MATURITY	MEDIUM	MED	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	MATURITY	Small	SMAL	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	POWDER_CONTENT	Powder-Free	PF	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	STERILITY	Non-Sterile	NSTRL	1

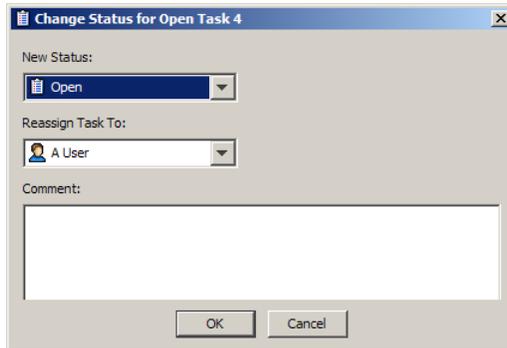
The following User Additions were created in the Governance Studio and cannot be imported. They are shown for information purposes in case you wish to manually add them.

Type	Data Lens	Item Definition	Attribute	Entered Value	Unknown Text	Count	
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	OTHER_FEATURES	NEU-THERA	NEU-THERA	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	OTHER_FEATURES	NITRILE LATEX BLEND	NITRILE LATEX BLEND	1
		001_TEST_REMEDIATION_AUG_GLOVES	Medical_Gloves	OTHER_FEATURES	ULTRA SENSITIVE	ULTRA SENSITIVE	1

The View Enrichments dialog allows you to review the data enrichments that can be imported into the specified data lens by item definition, attribute, attribute value, and the new (unknown) term in the top pane. Any enrichments that are not importable are listed in the bottom pane so that you can review them and consider manually adding them to your data lens.

## Changing the Task Status

Selecting this option allows you to change the status of the task and/or reassign the task to another user.



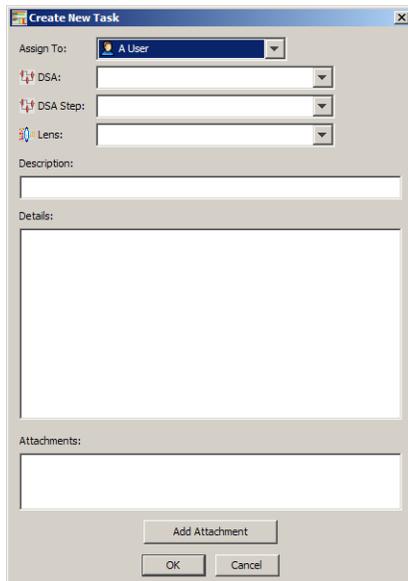
1. Select a new status and/or a user to reassign the task to from the lists.

**Tip:** You can use the Unassigned Tasks user if you are unsure who you want to review this task and intend to assign it the proper person later.

2. Enter a comment that reflects why you have affected the change for future reference or to alert the new recipient of the task and why they are now responsible for it.
3. Click **OK**.

## Creating a Task

Selecting this option allows you to create an entirely new review task.



1. Select a user to complete this task.
2. Select the DSA and the DSA step that you want to change.
3. Select the data lens to which the change is to be applied.

4. Enter a description and specific instructions on how to perform the task.
5. If you have a data file or other information that you want to attach, click **Add Attachment**, locate the file, and then click **OK**.

Repeat this step until all necessary files are attached.

6. Click **OK**.

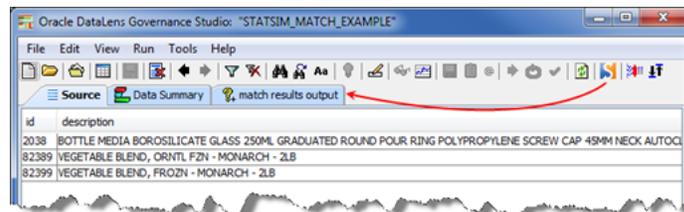
The task is created and an email containing the task details is sent to the assigned user.

## Statistical Matching and Options

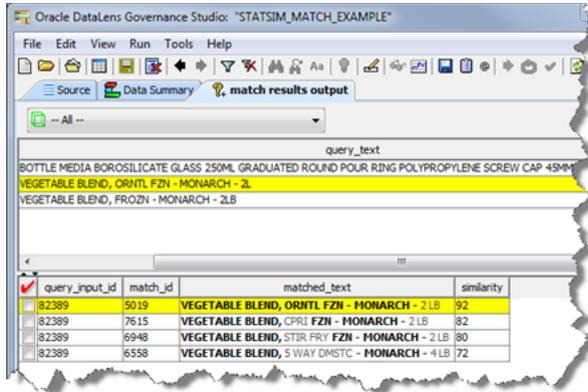
The Statistical Similarity (StatSim) matching application is composed of two Data Service Applications (DSAs) that you use is used to quickly identify similar records in your data. StatSim is generally used when attempting to match a set of query records against an index of thousands or millions of records. Data lenses are not necessary for StatSim matching. Statsim is an implementation of a similarity metric that considers both the amount of shared and unshared content between two records. The relative frequencies of the character strings involved in the records being compared are also considered. Using this information, a similarity score is generated for each record used in the index, indicating the similarity between the query and index records thus the StatSim index is created. See *Oracle Enterprise Data Quality for Product Data Application Studio Reference Guide*.

After you have created and tested your StatSim DSAs, you create a Governance Studio project to process your data, identify matches, and perform remediation.

1. Create a new project ensuring that you select your StatSim match DSA and identify your query data. See "[Creating and Running a Governance Studio Project](#)" on page 2-5.



2. (Optional) Click the Stat Match Options button on the toolbar to set the runtime options. Set the options as described in step "[Changing Statistical Match Runtime Options](#)" on page 5-18, and then click **OK**.
3. Click the transform data button on the toolbar to obtain your match results.
4. Click on your Match Results tab to view your results.
5. Click on a line of data to view the match results for it.



The query records are on the top pane and the matched index records are on the bottom pane.

The match results are ordered, with the closest match being at the top of the list. The bold characters indicate precisely which characters match between the query record and the index record.

If you do not wish to have the matched characters presented in bold, turn off the **Save Highlighted Text** StatSim match runtime option. See "[Changing Statistical Match Runtime Options](#)" on page 5-18.

As with all Output tabs, you can use any of the functions including using the checked rows to create a task, filtering the results, or creating an override row.

## Changing Statistical Match Runtime Options

The StatSim matching runtime options allow you to dynamically modify the result and match settings, as well as the fields to use in the match process. You can change these options to produce numerous matching variations using the same query and index.

Use the following steps to change these options:

1. From the **Tools** menu, select **Statistical Match Options** or click Stat Match Options button on the toolbar.



2. Select the name of the StatSim index you want to use from the **Index Name** list box. This list is populated based on the database connection you select.
3. Select **Save Highlighted Text** to highlight the matched characters in bold.
4. Select the **Max Matches** and **Minimum Score** values or use the recommended defaults from the respective list boxes to return match results that allow you to view a reasonable set of match results with the best matches at the top of the list.

Increasing Max Matches and/or decreasing Minimum Score will return more match results.

Decreasing Max Matches and/or increasing Minimum Score will return fewer match results.

5. Select one of the Query Weight options. **Medium** is recommended for most datasets and applications because it considers both the shared and unshared content between the query and index records.

If the index records are short (10-60 characters) and your query records are consistently much longer, then select **Low** for your Query Weight.

If you wish to *search* for records (find the records in the index that contain the exact terms appearing in query records), then select **High**. This increases the number of match returns. This, however, will result in the returned items having additional unmatched words in the descriptions.

6. (Optional) Select the **Apply Length Penalty** check box to penalize very short matches. Experiment with checking this box if similar lines in your dataset have widely varying line lengths.
7. (Optional) Select the **Ignore Digits** check box to apply a rescoring of the original match results so that the digits in the query and index lines are ignored and similar scores are calculated based on the remaining text.

If you select Ignore Digits, the following pair of records will have a match score of 100:

Pencil, Automatic, .4mm, Blue Cap

Pencil, Automatic, .5mm, Blue Cap

Notice that these two lines differ only in their digits. When Ignore Digits is selected, the digits are ignored and the match score is calculated based on the remaining text.

8. Use the **Fields to use for Match** check boxes to indicate the number of description fields to use when processing the job; these check boxes reflect the input names for the selected StatSim matching index. Each record must have an ID, so the Query Input ID (*input name*) check box is selected by default.

**Tip:** You can reset the values to those set in the StatSim matching DSA at any time by clicking **Reset Values**.

9. Click **OK**.

