New Features in Data Visualization Desktop 3.0

Dan Vlamis Vlamis Software Solutions, @vlamissoftware, 816-781-2880

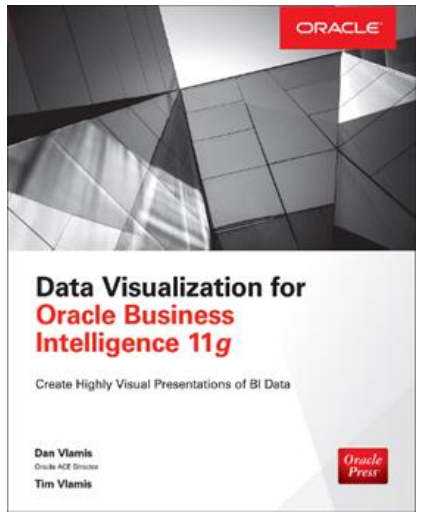
www.vlamis.com

dvlamis@vlamis.com, @dvlamis

Copyright © 2017, Vlamis Software Solutions, Inc.

Vlamis Software Solutions

- Vlamis Software founded in 1992 in Kansas City, Missouri
- Developed 200+ Oracle BI and analytics systems
- Specializes in Oracle-based:
  - Enterprise Business Intelligence & Analytics
  - Analytic Warehousing
  - Data Mining and Predictive Analytics
  - Data Visualization
- Multiple Oracle ACEs, consultants average 15+ years
- www.vlamis.com (blog, papers, newsletters, services)
- Co-authors of book “Data Visualization for OBI 11g”
- Co-author of book “Oracle Essbase & Oracle OLAP”
- Oracle University Partner
- Oracle Gold Partner



ORACLE ACE Director

ORACLE ACE

ORACLE EDUCATION RESELLER

ORACLE Gold Partner
Specialized
Oracle Business Intelligence
Foundation Suite 11g

Copyright © 2017, Vlamis Software Solutions, Inc.

CELEBRATING EXCELLENCE vlamis 25 YEARS SOFTWARE SOLUTIONS

OBIEE, BICS, DVD New Features Webcasts

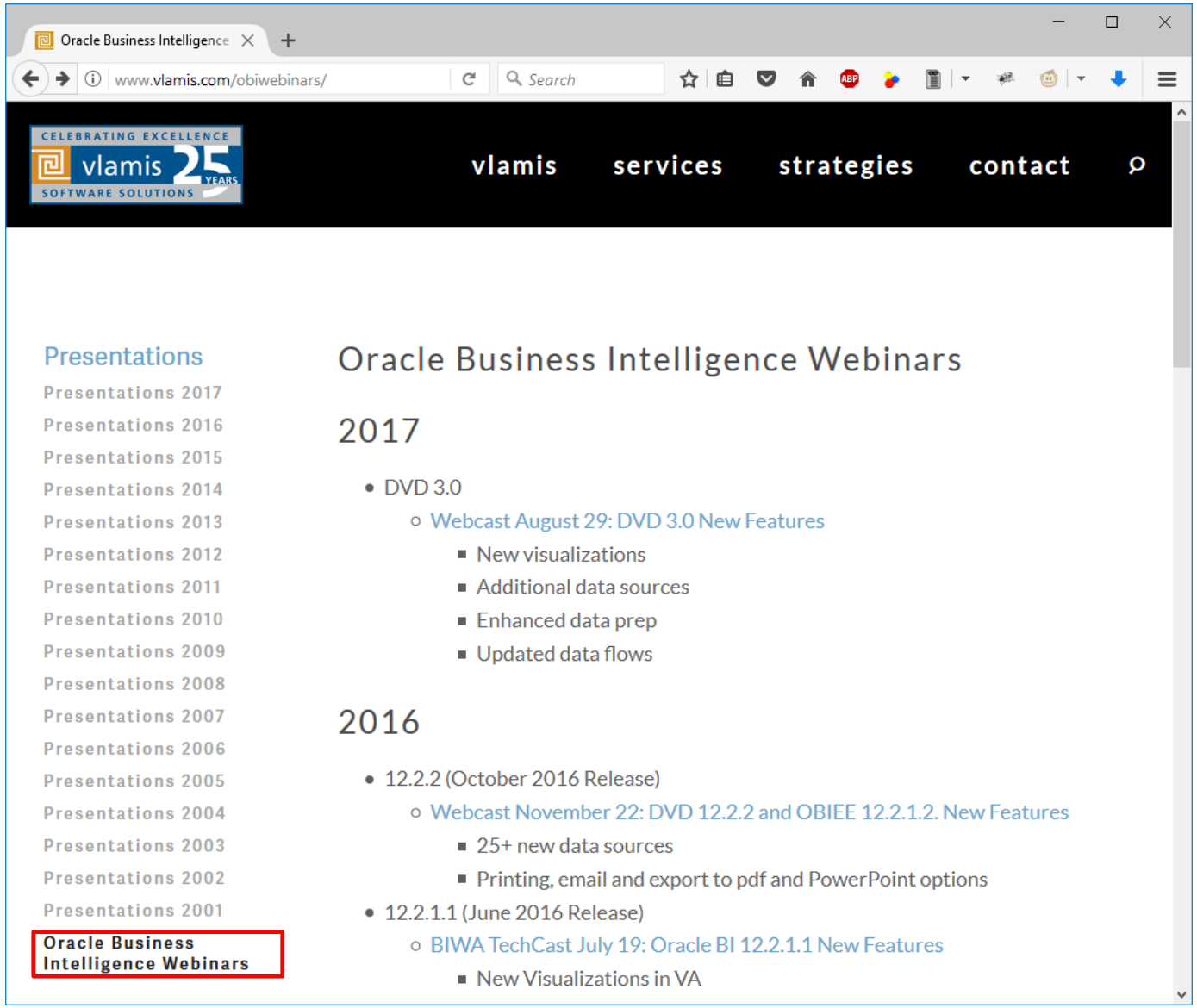
- 11.1.1.3 (August 2010)
  - Huge release with major new functionality
- 11.1.1.5 (May 2011)
  - BIWA TechCast May 25: Oracle BI 11.1.1.5 - New Features
- 11.1.1.6 (February 2012)
  - BIWA TechCast Feb 29: Oracle BI 11.1.1.6 New Features
  - New features mostly for Exalytics
- 11.1.1.6.2 and 11.1.1.6.2 BP1 (May 2012 and June 2012)
  - BIWA TechCast Aug 1: Oracle BI 11.1.1.6.2 BP1 New Features
  - Trellis Views
- 11.1.1.7 (April 2013)
  - BIWA TechCast Apr 5 Oracle BI 11.1.1.7 New Features
  - Freeze headers/scroll bars for tables and pivot tables
  - View content in SmartView in Excel and enhanced export
  - New Oracle R Enterprise (ORE) integration and capabilities
- 11.1.1.9 (May 2015)
  - BIWA TechCast Jun 4, 2015 Oracle BI 11.1.1.9 New Features
  - Search in Subject Areas pane
  - Global variables and Save Column As choice in Criteria tab
- 12.2.1 (October 2015)
  - BIWA TechCast Nov 19, 2015 Oracle BI 12.2.1 New Features
  - Alta UI Skin, new home page, Visual Analyzer and Data Mashup
- BICS March 2016 (March 2016)
  - Webcast Apr 5, 2016 BICS BICS March 2016 New Features
- 12.2.1.1 (June 2016)
  - BIWA TechCast Jul 19, 2016 Oracle BI 12.2.1.1 New Features
  - New Visualizations in VA
  - New Data Wrangling features
- 12.2.1.2 and DVD 2.0 (October 2016)
  - Webcast Nov 22, 2016 DVD 12.2.2 and OBIEE 12.2.1.2. New Features
  - 25+ new data sources
  - Printing, email and export to pdf and PowerPoint options
- DVD 3.0 (June 2017)
  - Webcast Aug 29, 2017 DVD 3.0 New Features
  - New visualizations
  - Additional data sources
  - Enhanced data prep
  - Updated data flows

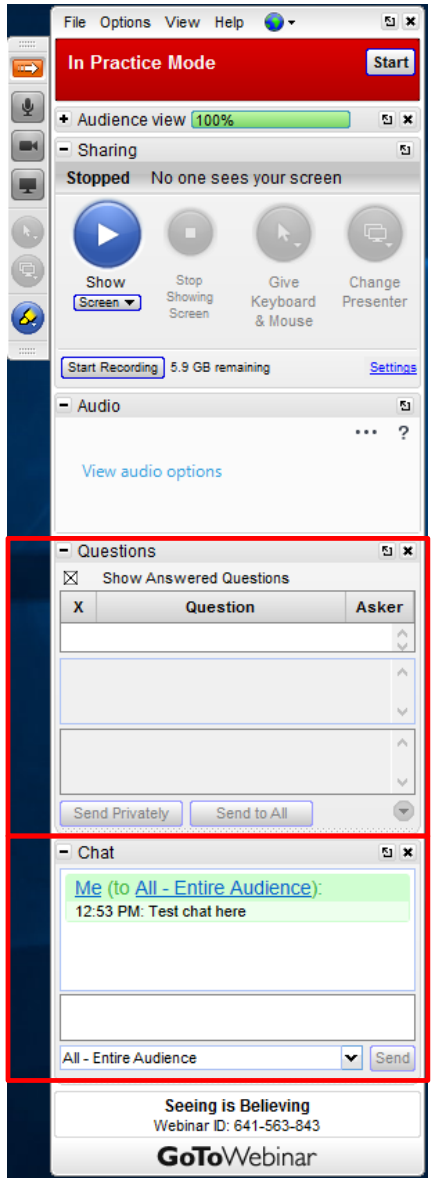
All listed on website at http://www.vlamis.com/obiwebinars/

Copyright © 2017, Vlamis Software Solutions, Inc.

CELEBRATING EXCELLENCE vlamis 25 YEARS SOFTWARE SOLUTIONS

Use Questions or Chat or Questions to communicate





Copyright © 2017, Vlamis Software Solutions, Inc.

CELEBRATING EXCELLENCE vlamis 25 YEARS SOFTWARE SOLUTIONS

DV V3 Functional New Features Overview

A. Data Visualization

1. *Graphical confidence levels,
2. *Top &Bottom N Filters
3. *New Waterfall & Boxplot Visualizations
4. *Duplicating & re-ordering canvases
5. *Chart & Axis layout additional options

B. Data Sources

6. Generic ODBC / JDBC support
7. Support for O-Data, Oracle Docs
8. *Remote OBIEE SAs as data-source
9. *Additional txt delimiters, undo in query builder

C. Data Prep

10. *Enhanced Convert-to-Date feature
11. *Set time grain level & format for time objects

D. Data Flows

12. *Improved flow-chart UI
13. *Deliver output to remote connection (RDBMS/Hive)
14. Merge columns step, additional expression functions

E. Console & Administration

15. *Custom Viz plugins upload screen
16. *Custom map layers support & upload console
17. Single-click publish project to Cloud

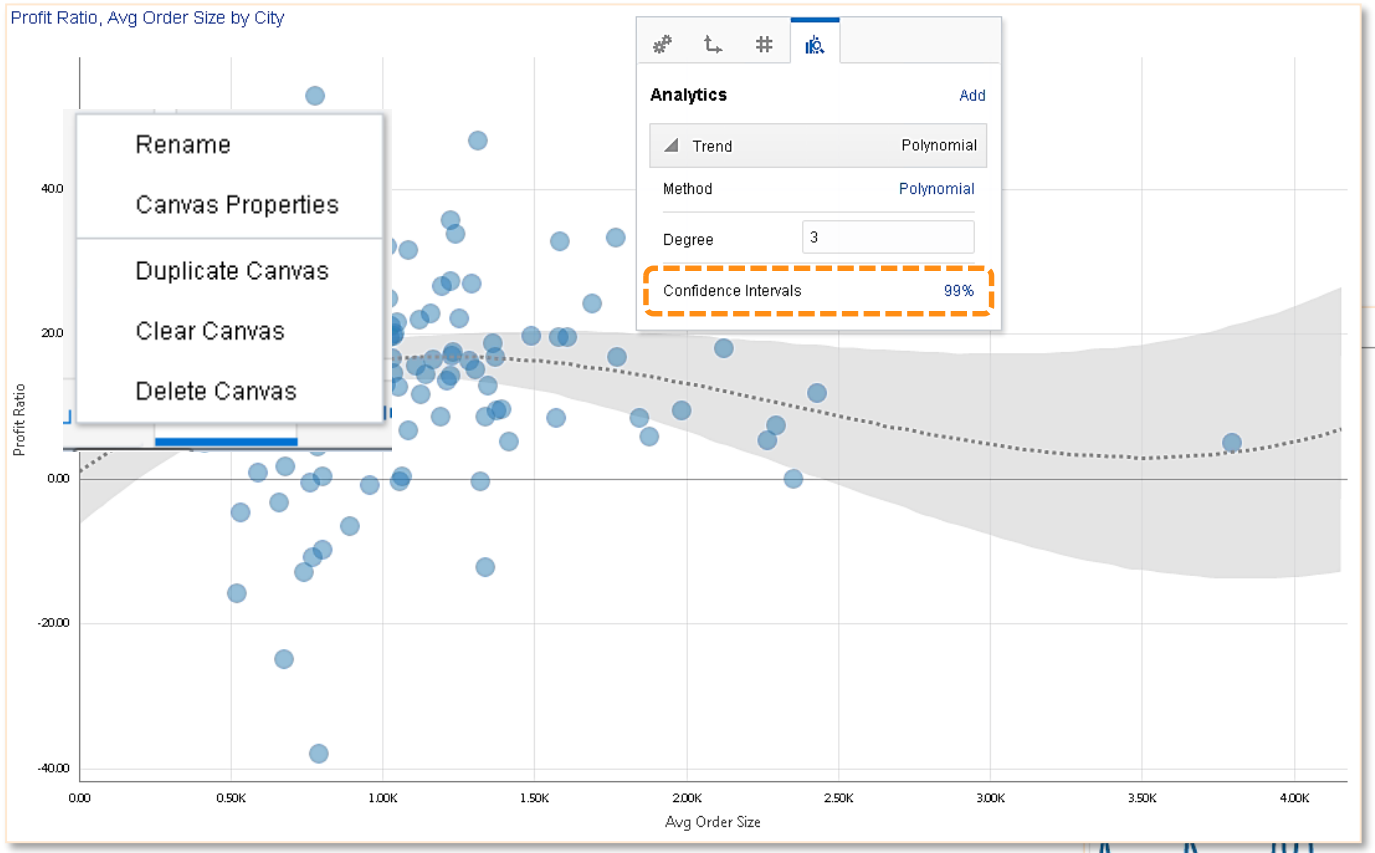
* Will demonstrate, time permitting

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

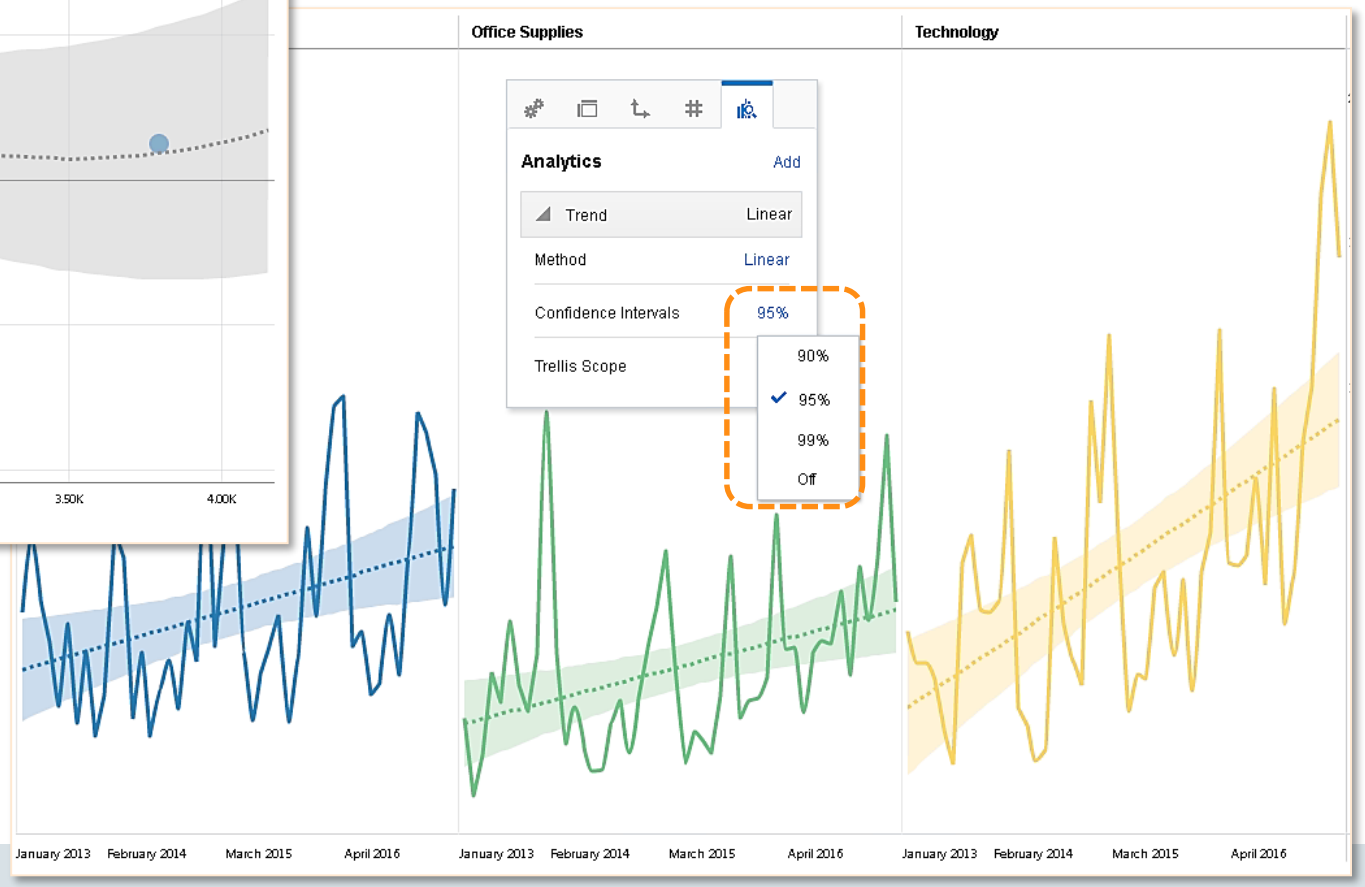
A - Data Visualization

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

1 - Graphical confidence levels

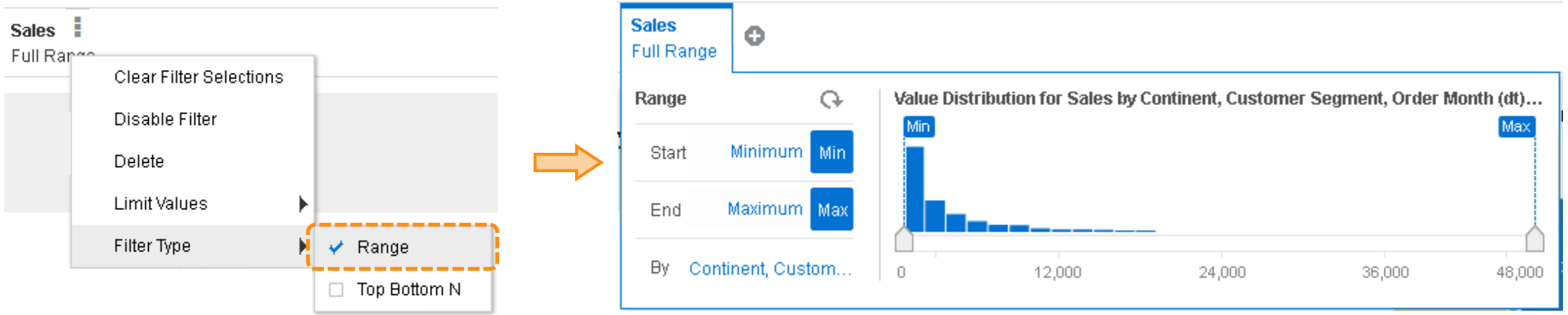


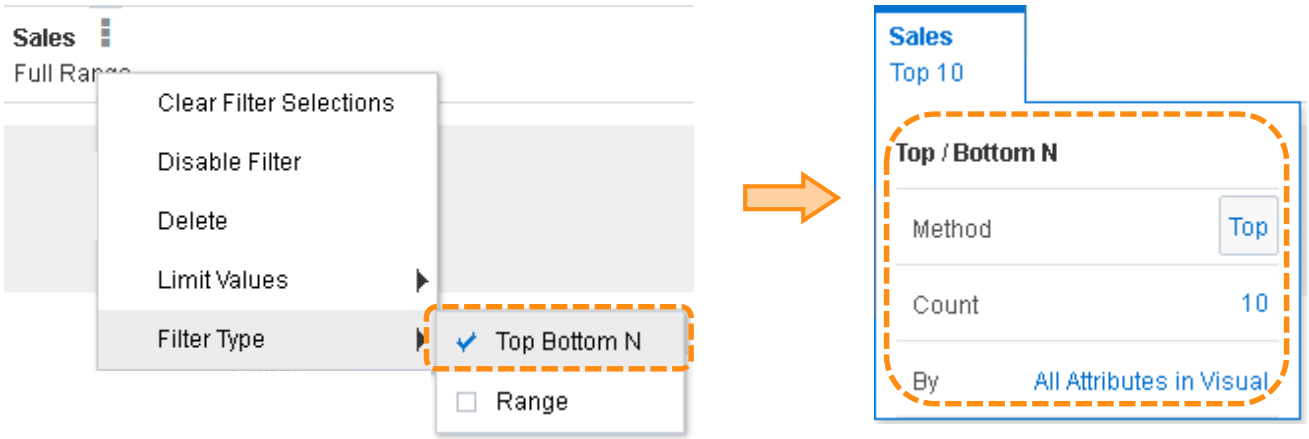
Set the confidence level directly on right-click menu for trend lines



Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

2 - Top & Bottom N Filtering

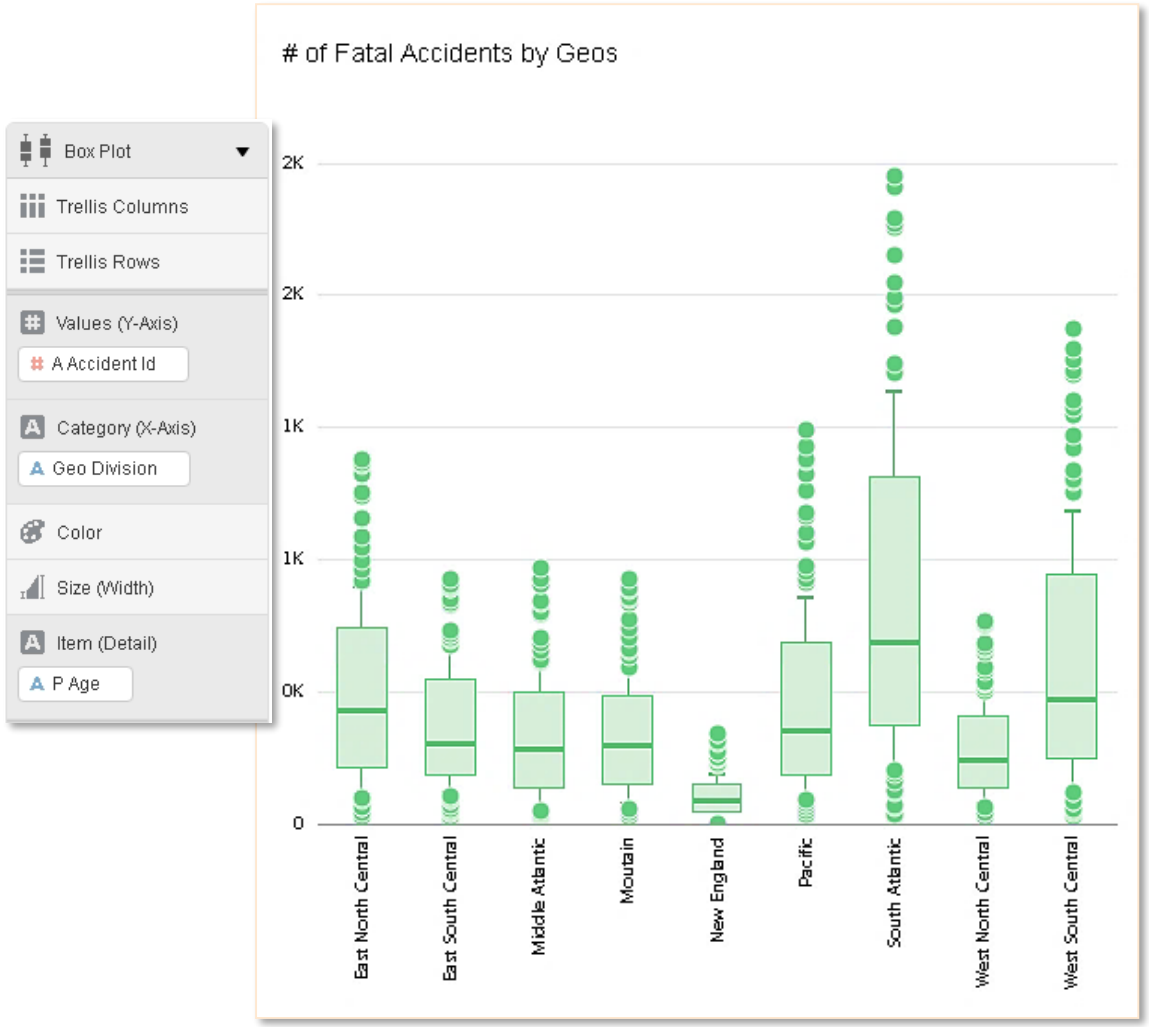


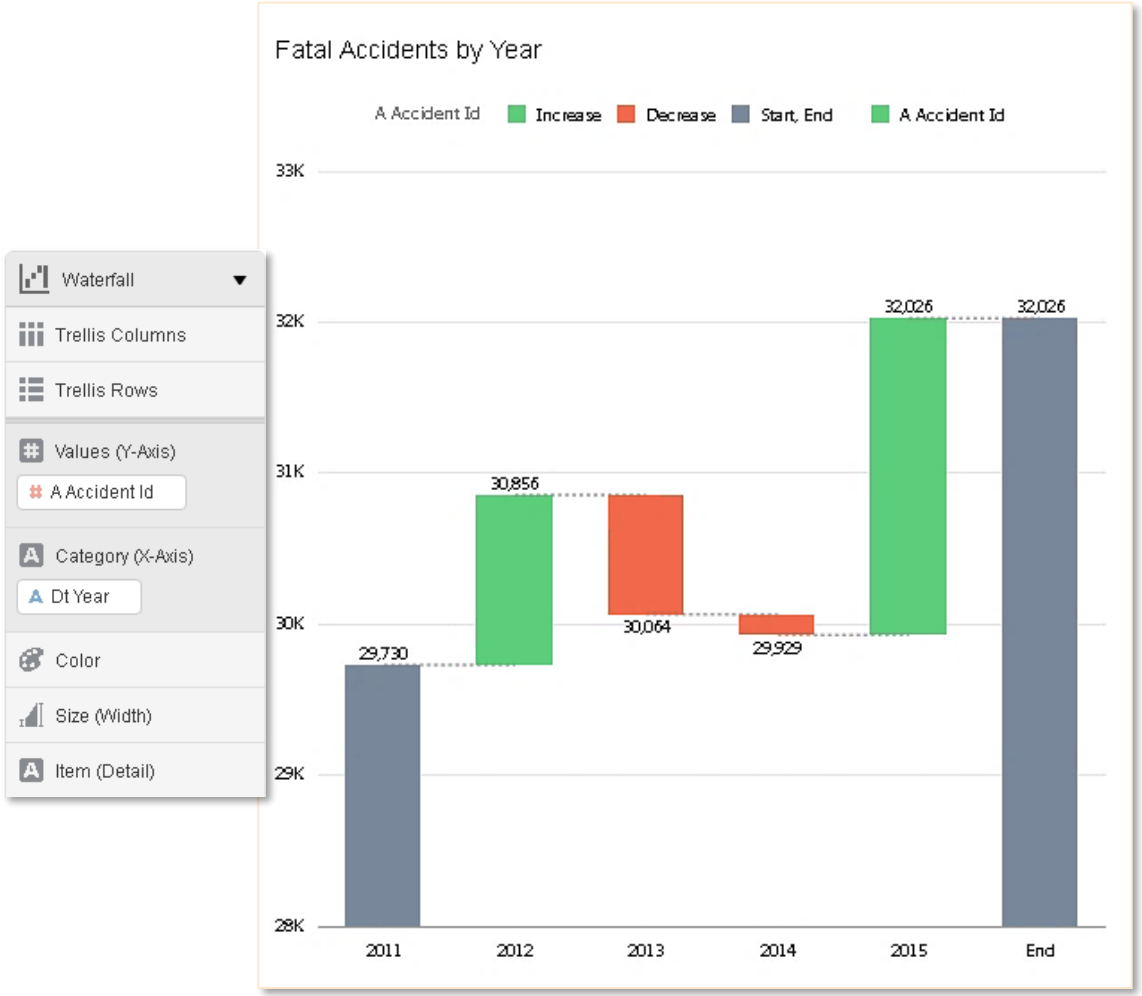


Switch between Range filtering and Top/Bottom filtering mode

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

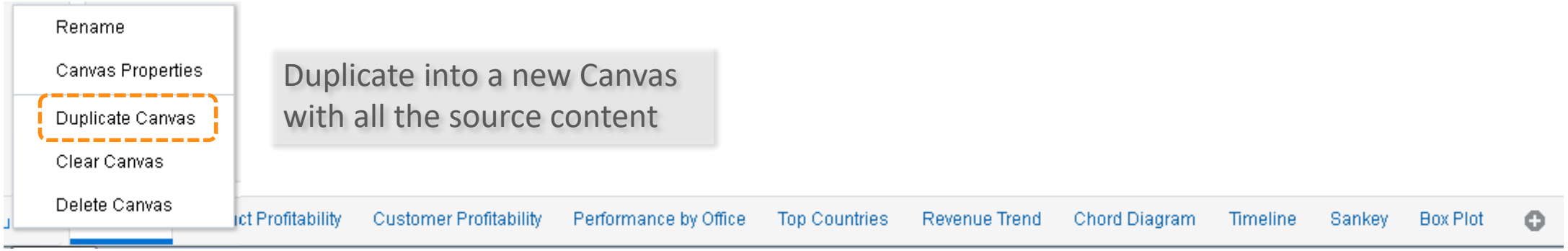
3 - New Waterfall & Boxplot Visualizations





Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

4 - Duplicating & re-ordering canvases

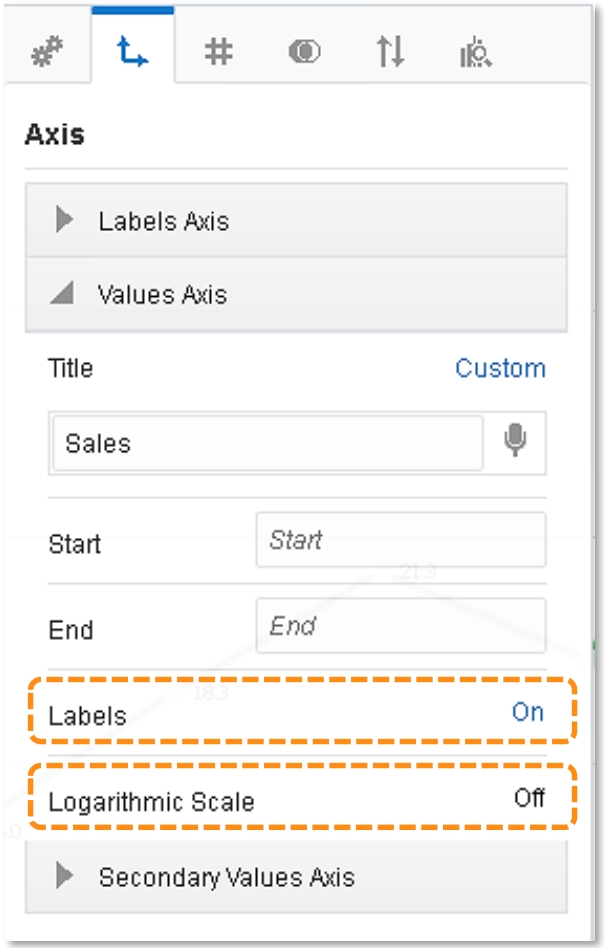


Duplicate into a new Canvas with all the source content

Drag and drop Canvases to re-order them in any sequence

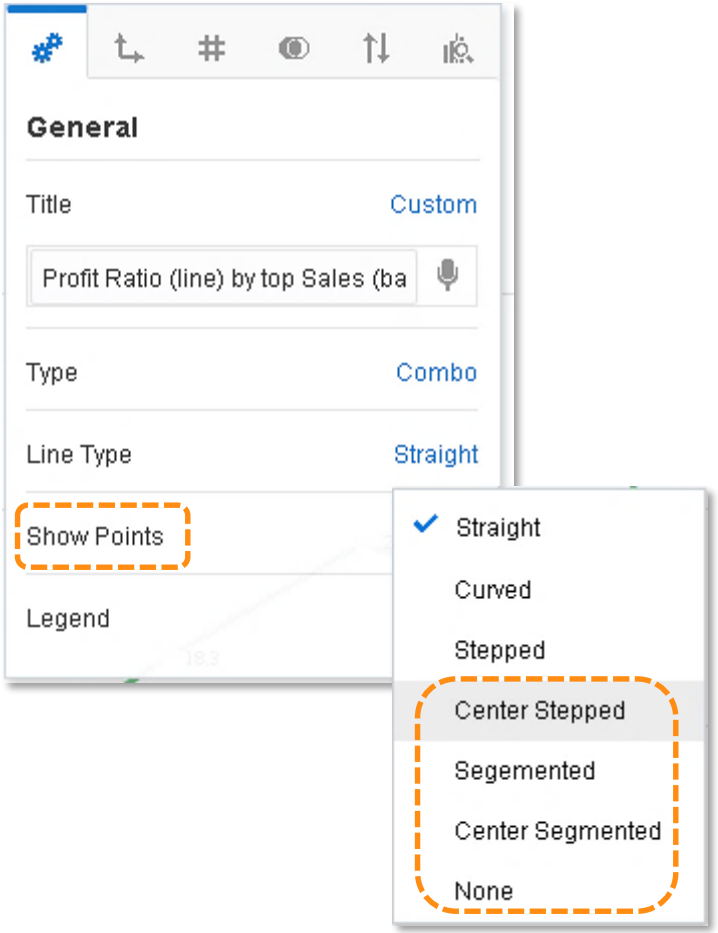
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

5 - Chart & Axis layout additional options



Show / Hide axis graduation labels,

Enable logarithmic scale



Show / Hide lines & points,

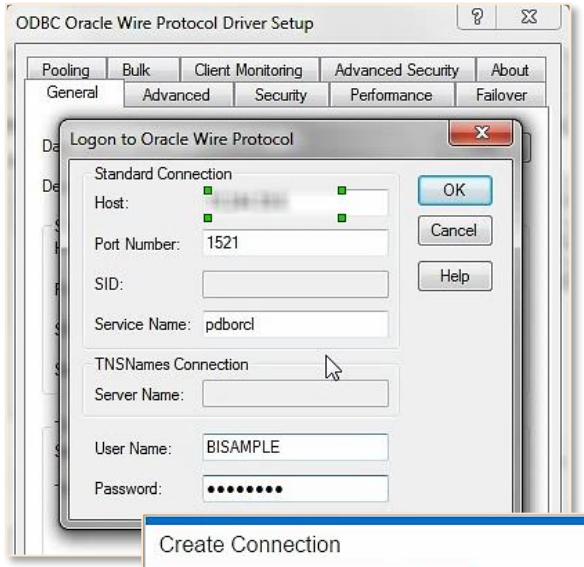
Select centered or left-aligned steps/segments

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

B - Data Sources

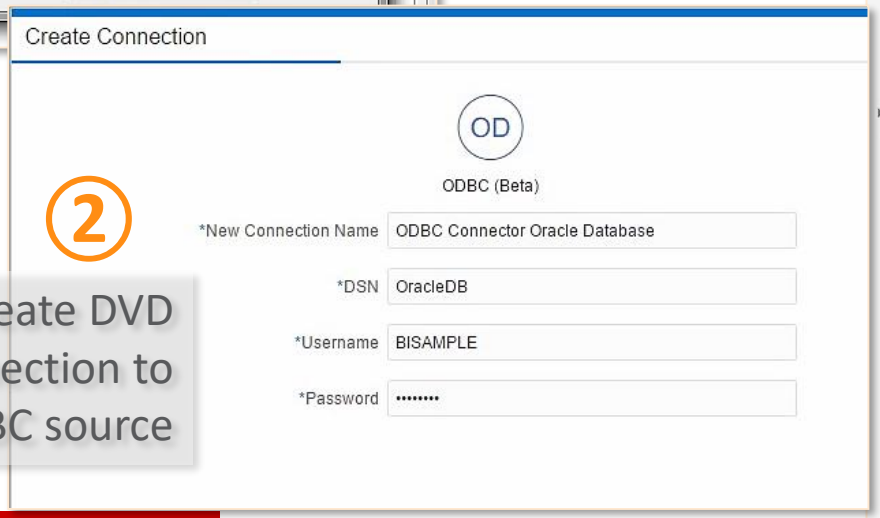
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

6 - Data-sources support **Generic ODBC**



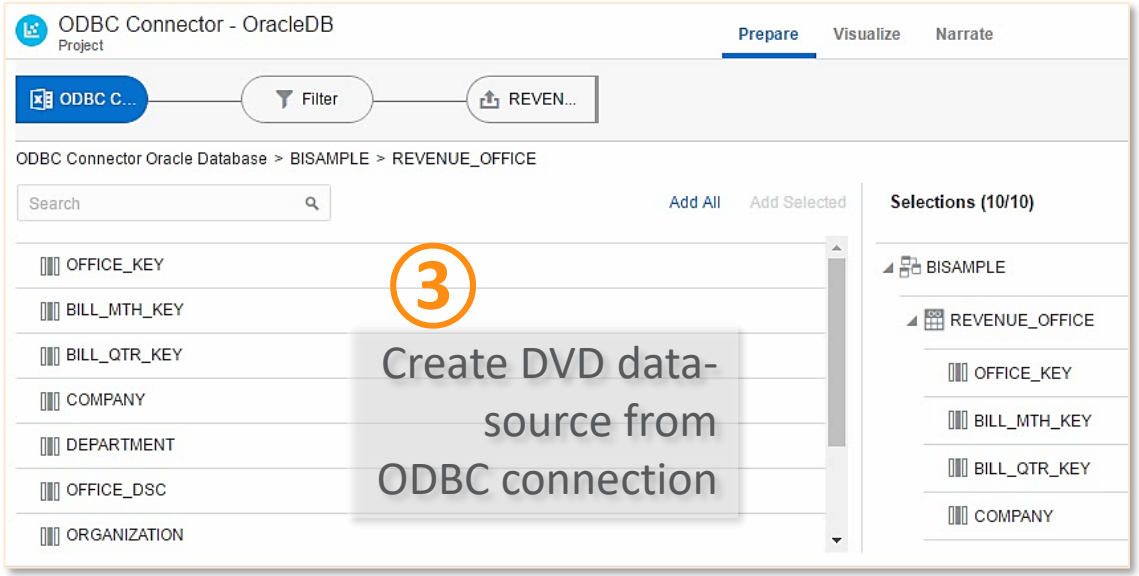
1

Register ODBC data-source on host machine



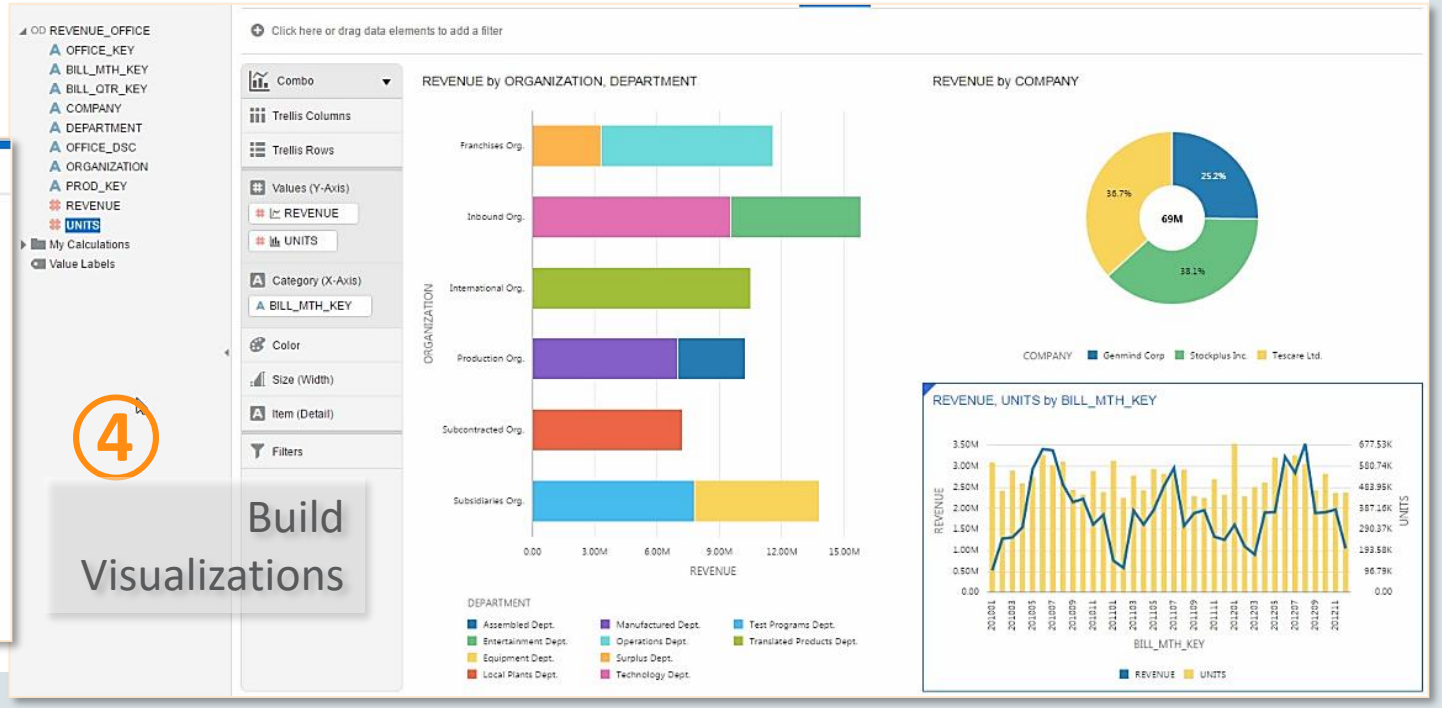
2

Create DVD Connection to host ODBC source



3

Create DVD data-source from ODBC connection

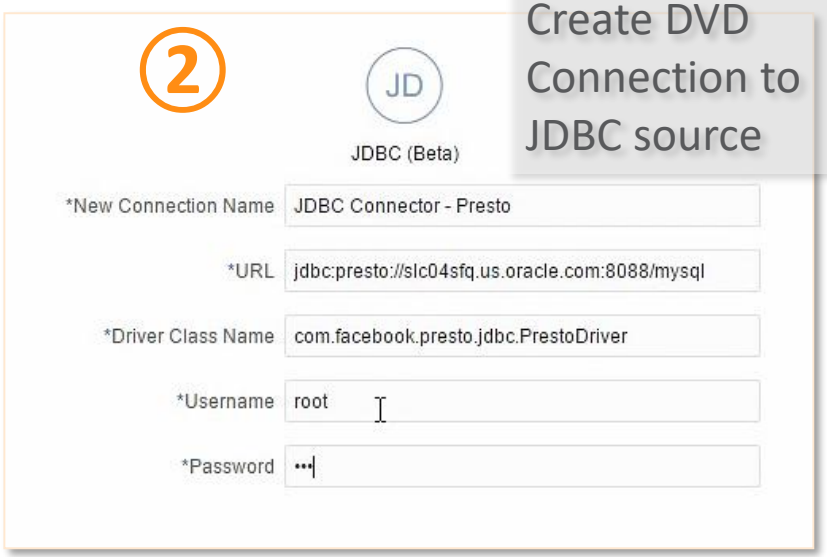


4

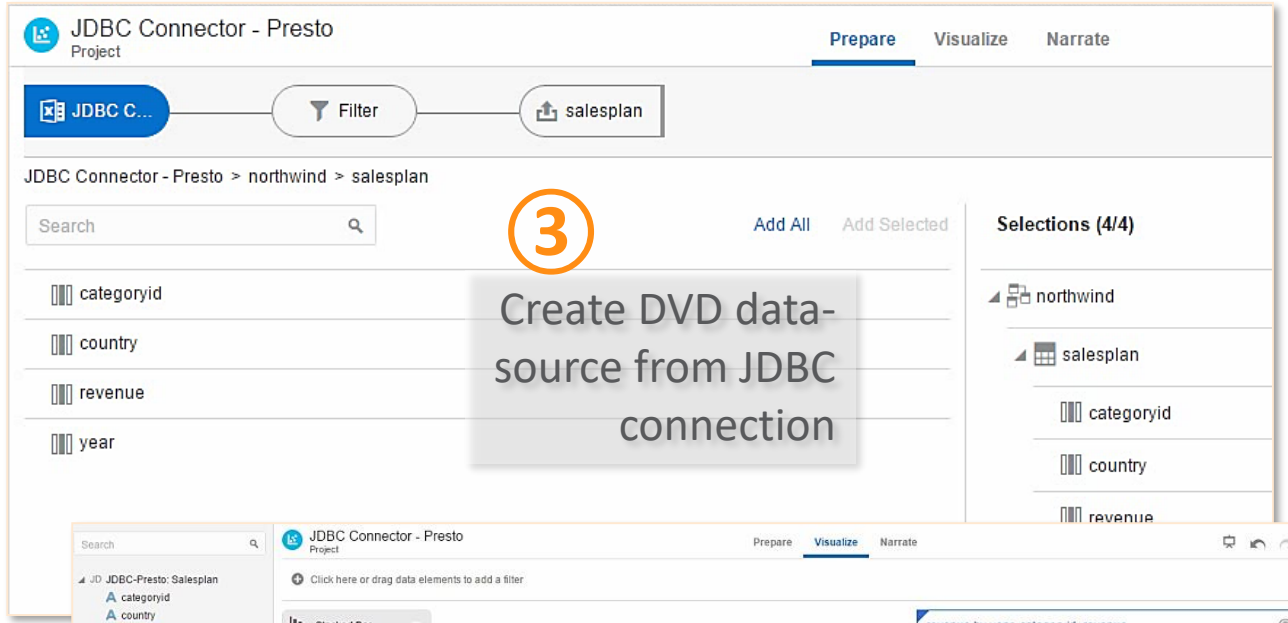
Build Visualizations

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

6 - Data-sources support **JDBC**, Presto example

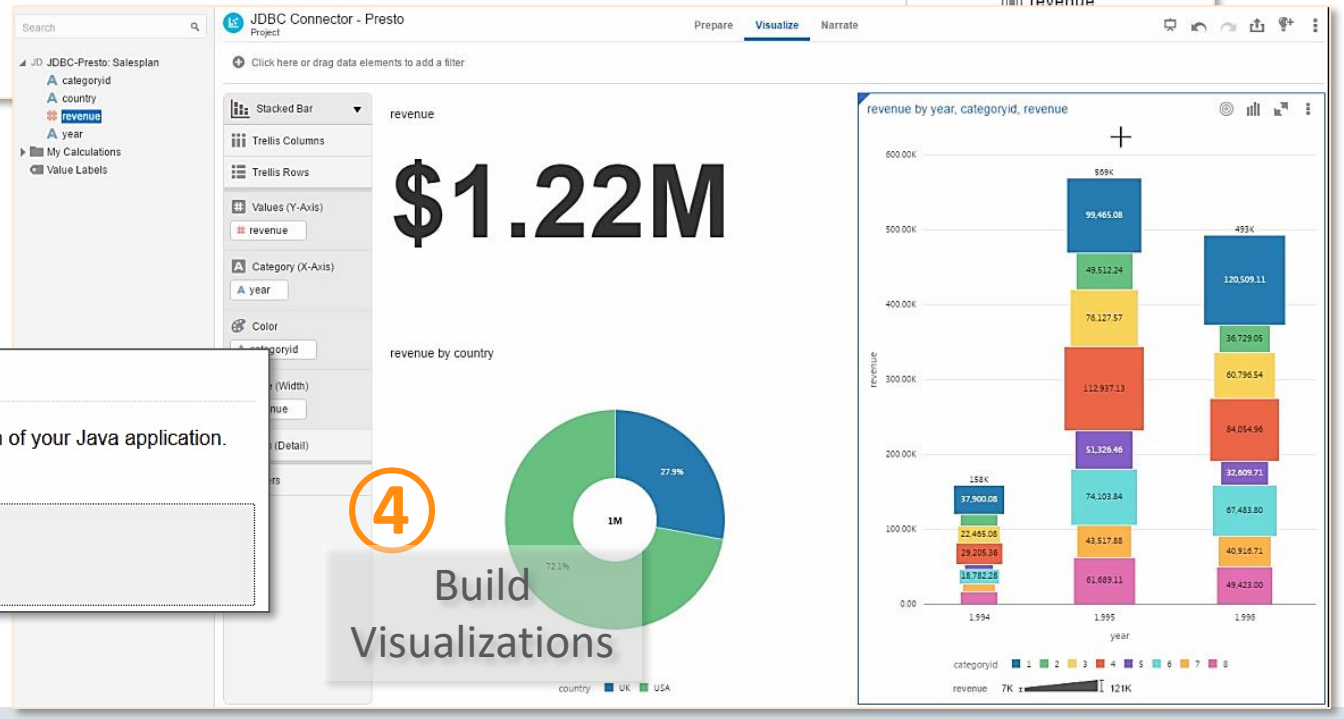


Create DVD Connection to JDBC source



3

Create DVD data-source from JDBC connection



4

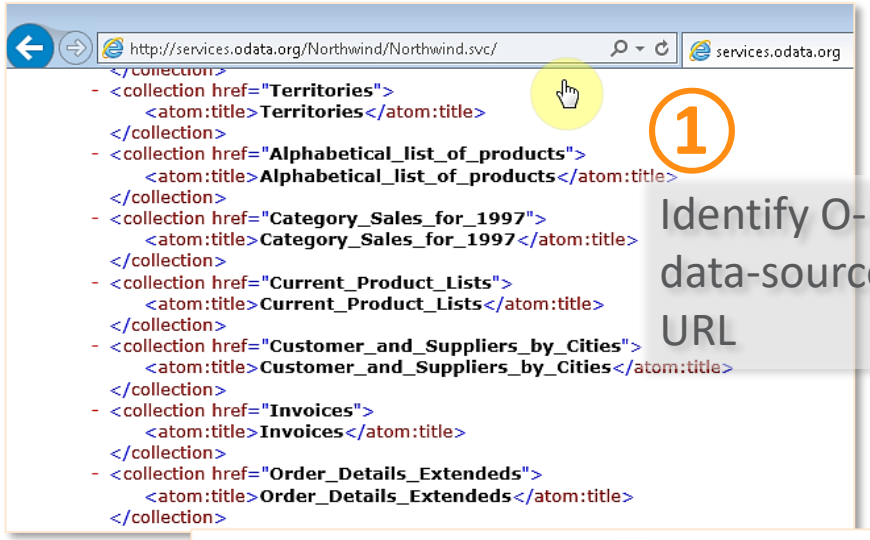
Build Visualizations

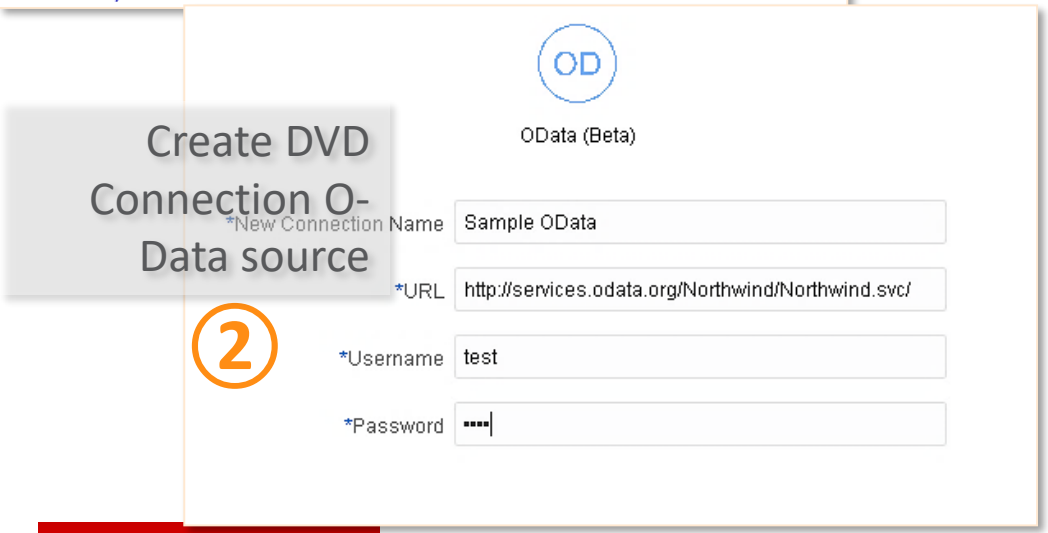
1

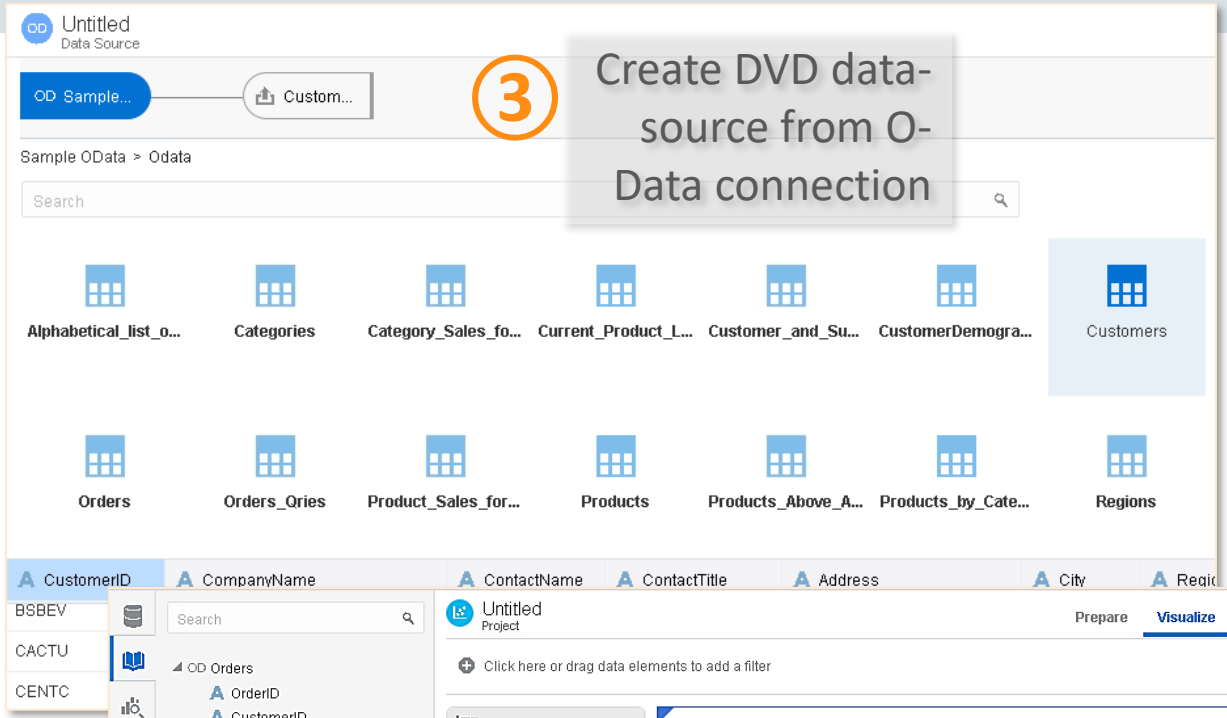
Enable JDBC driver on host

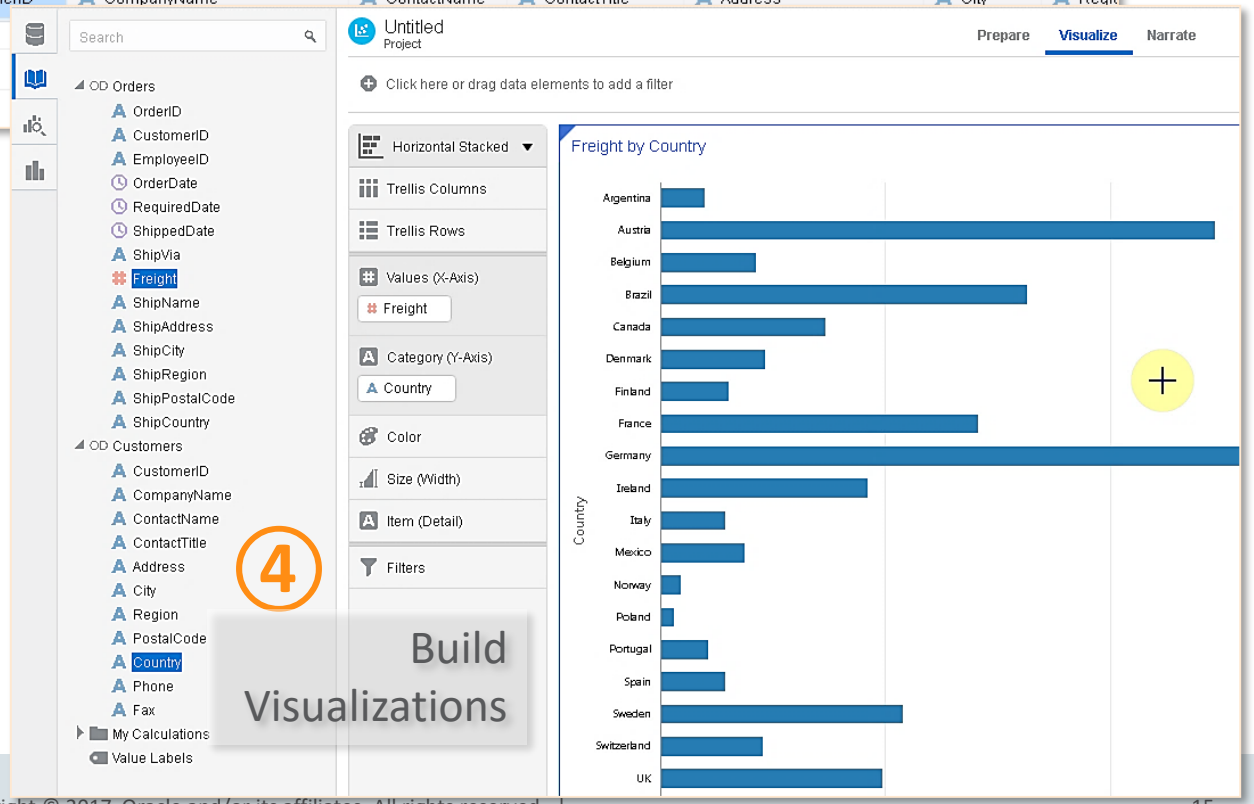
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

7 - Data-sources support **O-Data**



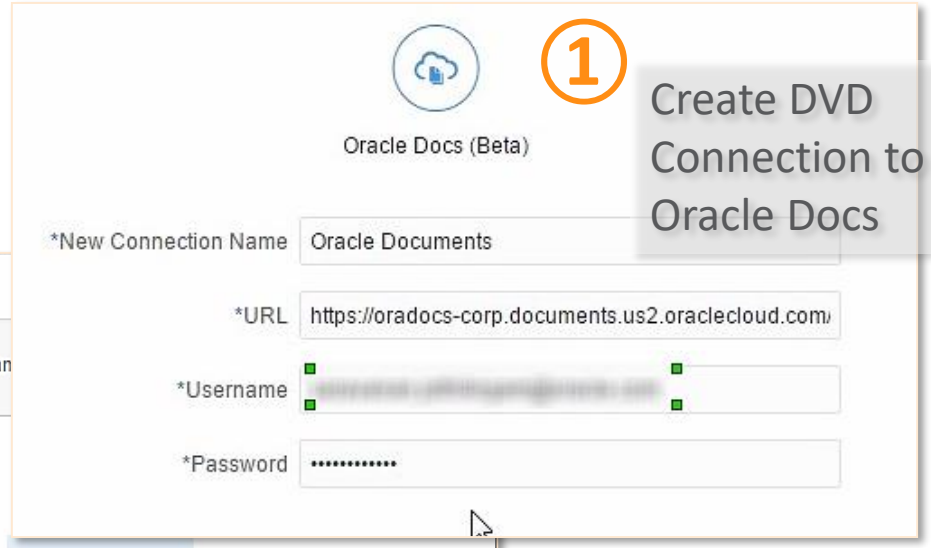


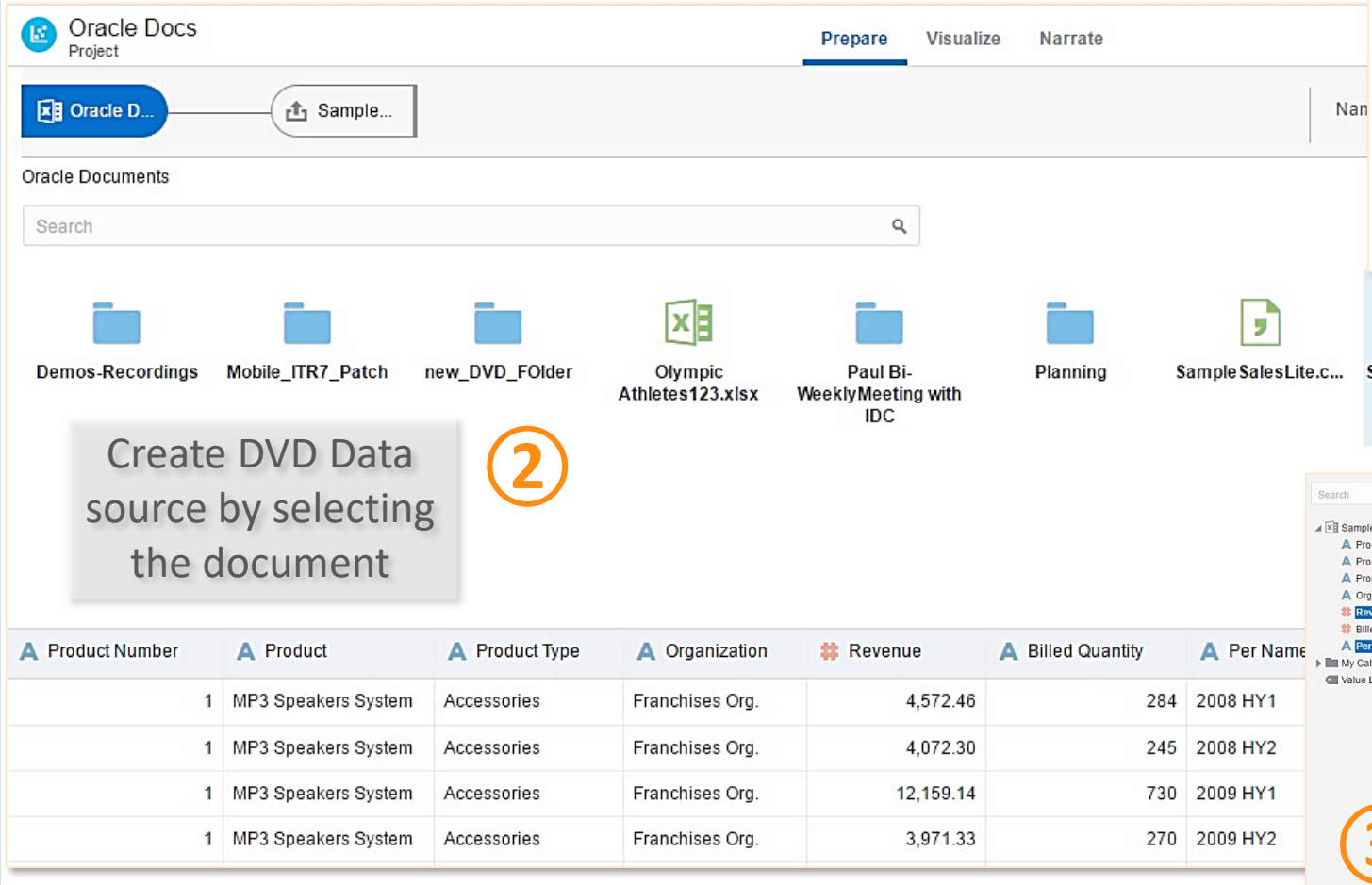


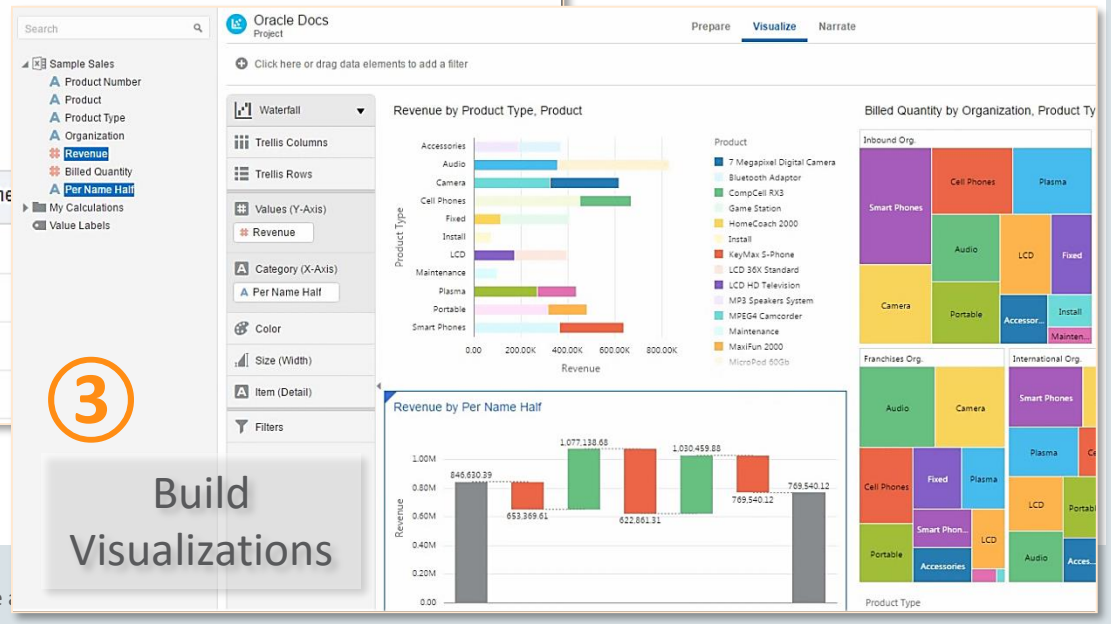


Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

7 - Data-sources support : **Oracle Docs**

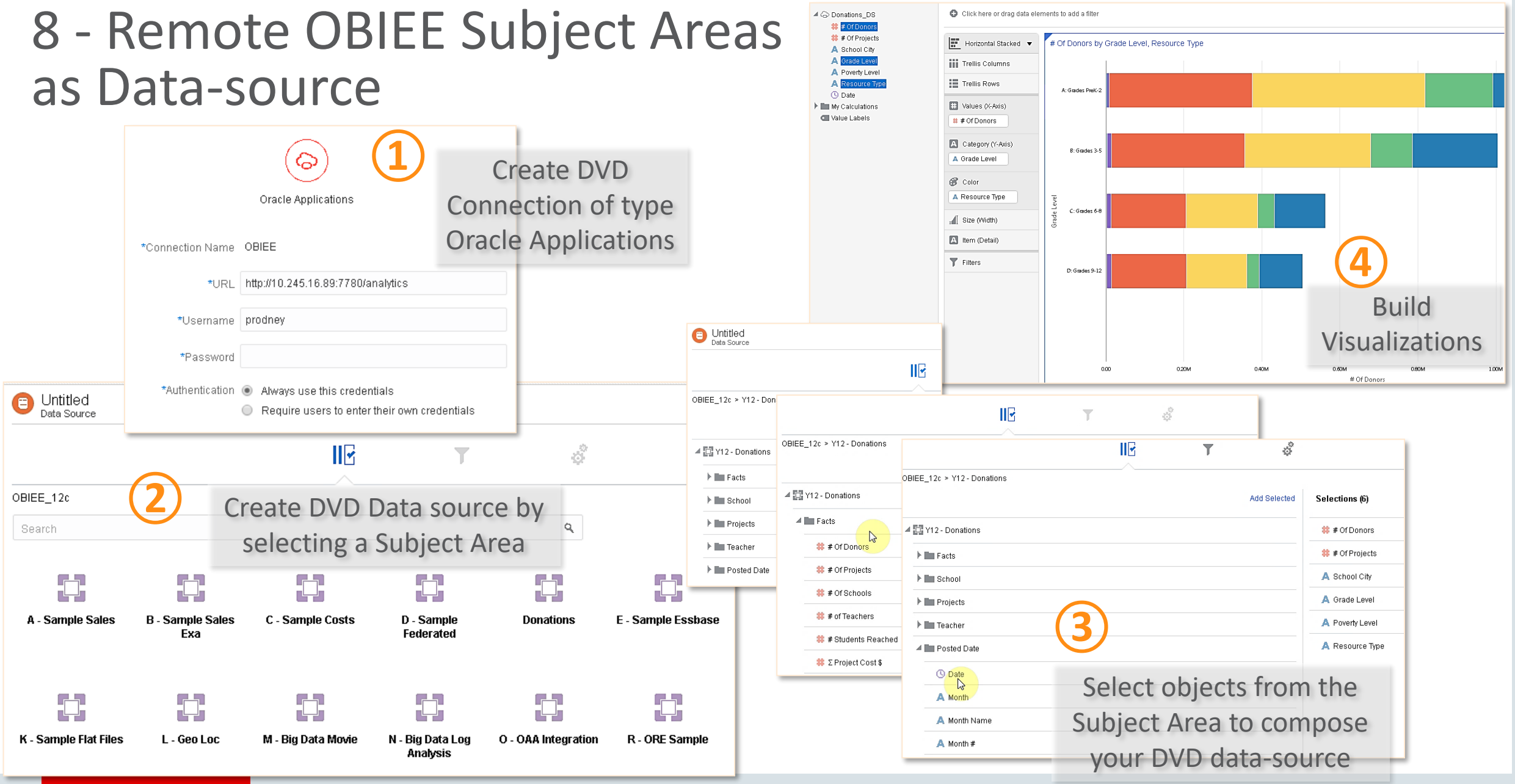






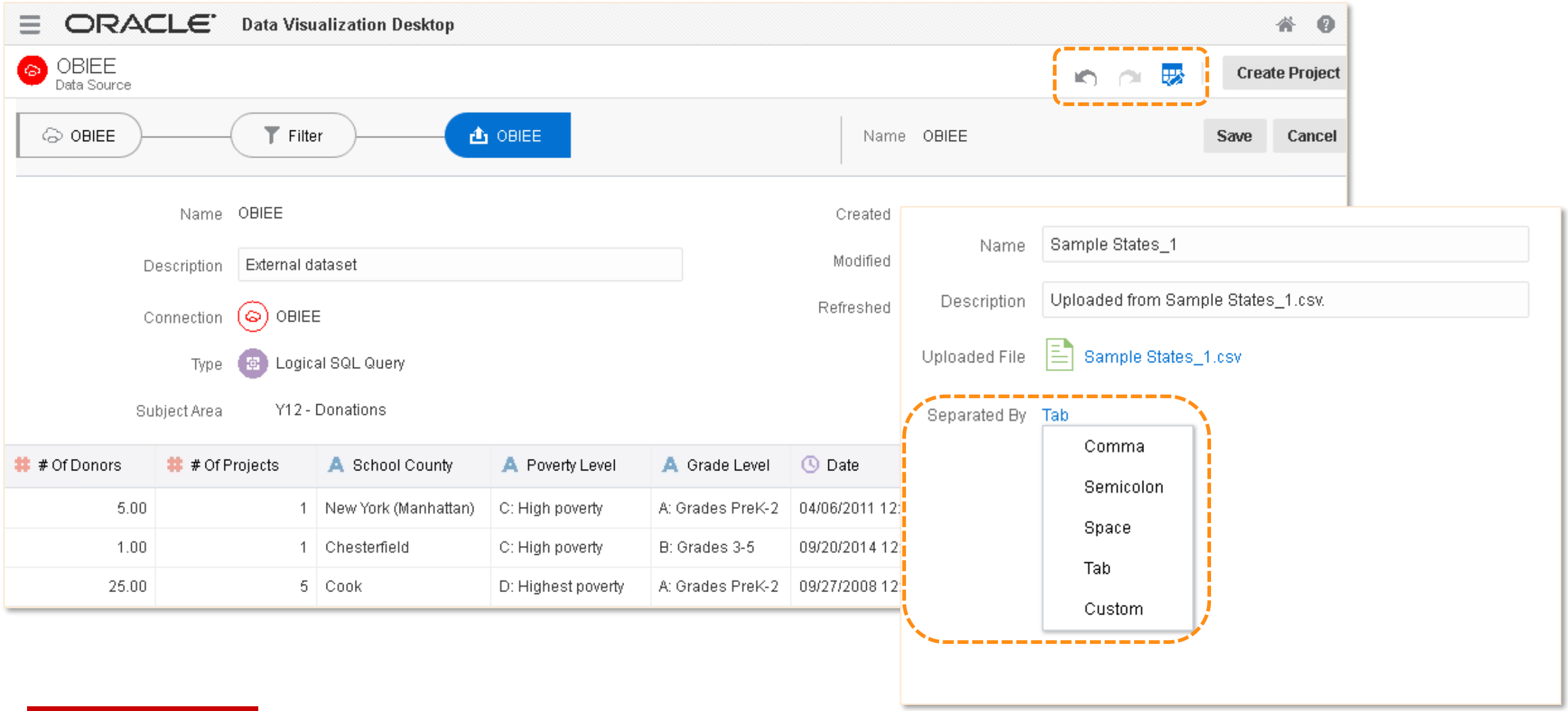
Copyright © 2017, Oracle

8 - Remote OBIEE Subject Areas as Data-source



Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

9 - Additional txt sources delimiters, undo in query builder

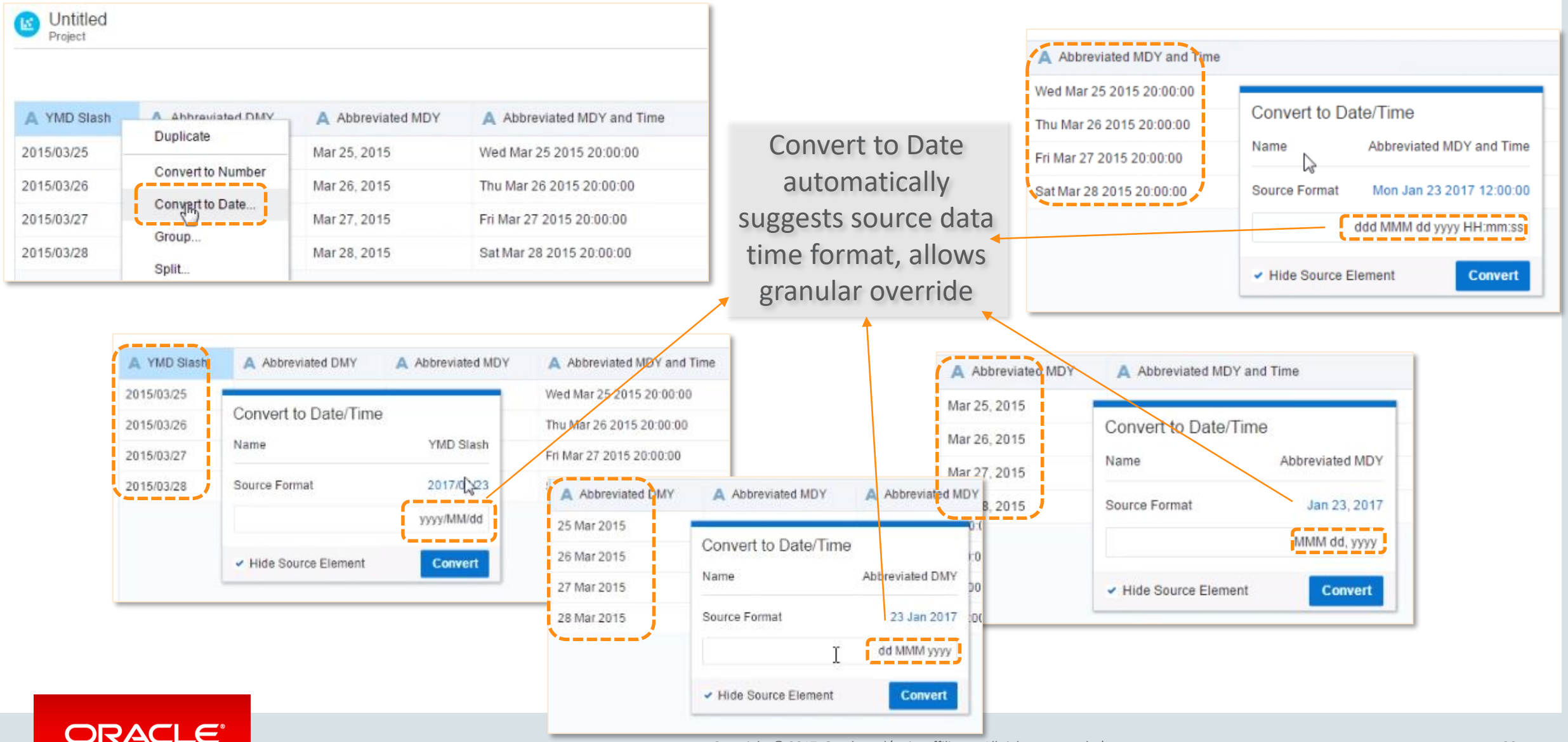


Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

C - Data Preparation

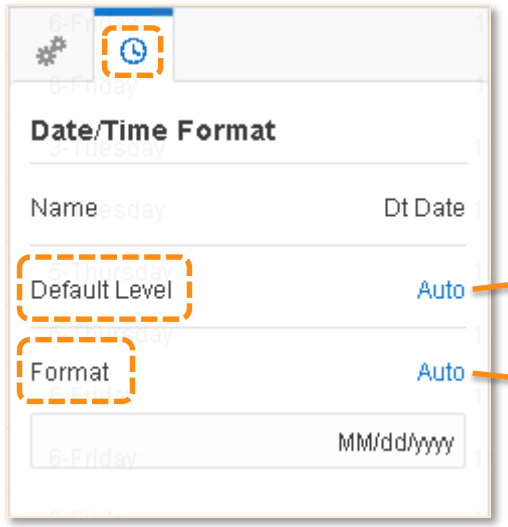
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

10 - Enhanced Convert-to-Date features

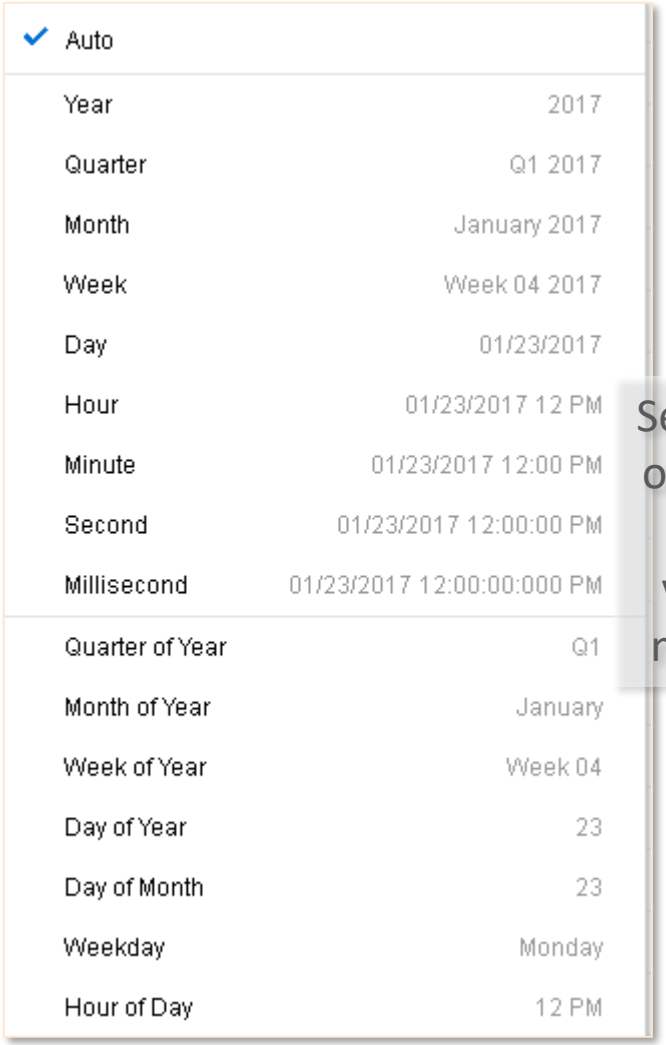


Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

11 - Set time grain level & format for time objects



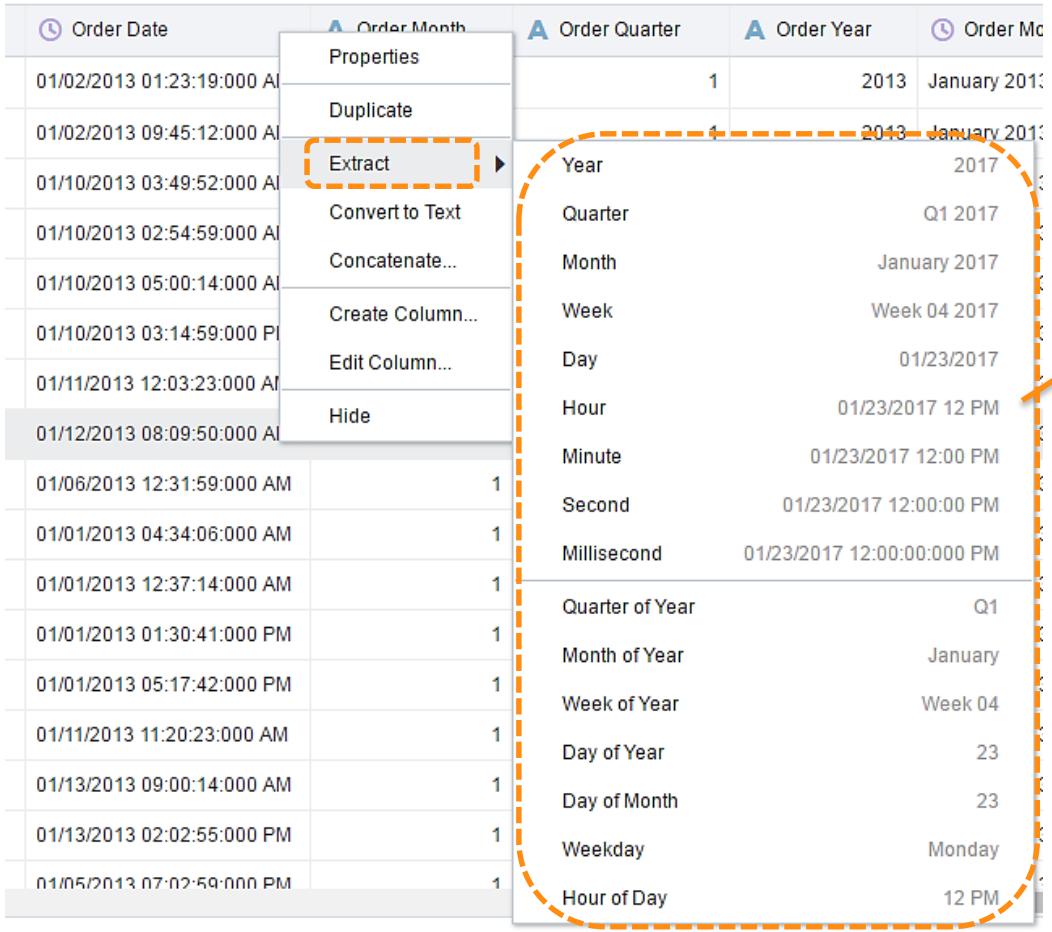
From the date column properties menu in Prepare tab, set default level or format for any time column across visualizations



Set time grain (ie level of detail) for any time column across visualizations. From milliseconds to years

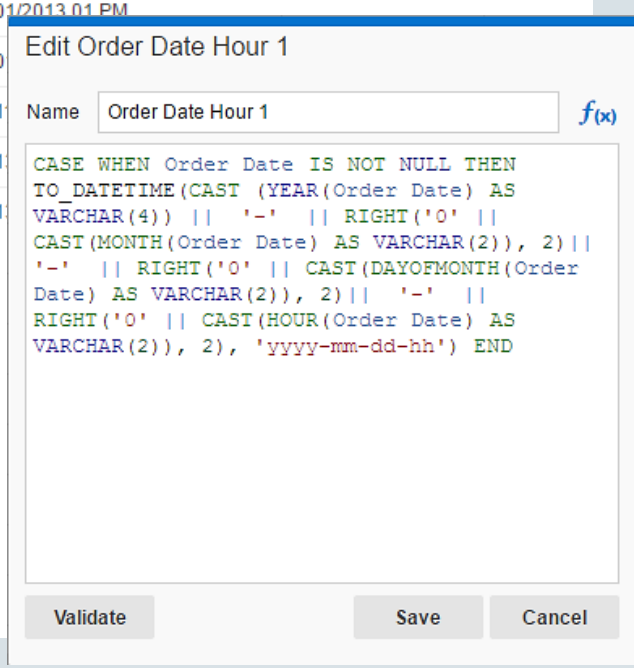
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

11 - Set time grain level & format for time objects



Ship Date	Order Date	Order Date Hour 1
01/05/2013	01/02/2013 01:23:19:000 AM	01/02/2013 01 AM
01/06/2013	01/02/2013 09:45:12:000 AM	01/02/2013 09 AM
01/11/2013	01/10/2013 03:49:52:000 AM	01/10/2013 03 AM
01/12/2013	01/10/2013 02:54:59:000 AM	01/10/2013 02 AM
01/12/2013	01/10/2013 05:00:14:000 AM	01/10/2013 05 AM
01/13/2013	01/10/2013 03:14:59:000 PM	01/10/2013 03 PM
01/11/2013	01/11/2013 12:03:23:000 AM	01/11/2013 12 AM
01/13/2013	01/12/2013 08:09:50:000 AM	01/12/2013 08 AM
01/08/2013	01/06/2013 12:31:59:000 AM	01/06/2013 12 AM
01/09/2013	01/01/2013 04:34:06:000 AM	01/01/2013 04 AM
01/02/2013	01/01/2013 12:37:14:000 AM	01/01/2013 12 AM
01/04/2013	01/01/2013 01:30:41:000 PM	01/01/2013 01 PM
01/09/2013	01/01/2013 05:17:42:000 PM	01/0
01/13/2013	01/11/2013 11:20:23:000 AM	01/1
01/16/2013	01/13/2013 09:00:14:000 AM	01/1
01/16/2013	01/13/2013 02:02:55:000 PM	01/1

Or directly in the prepare tab, extract a richer set of date grains from any date column

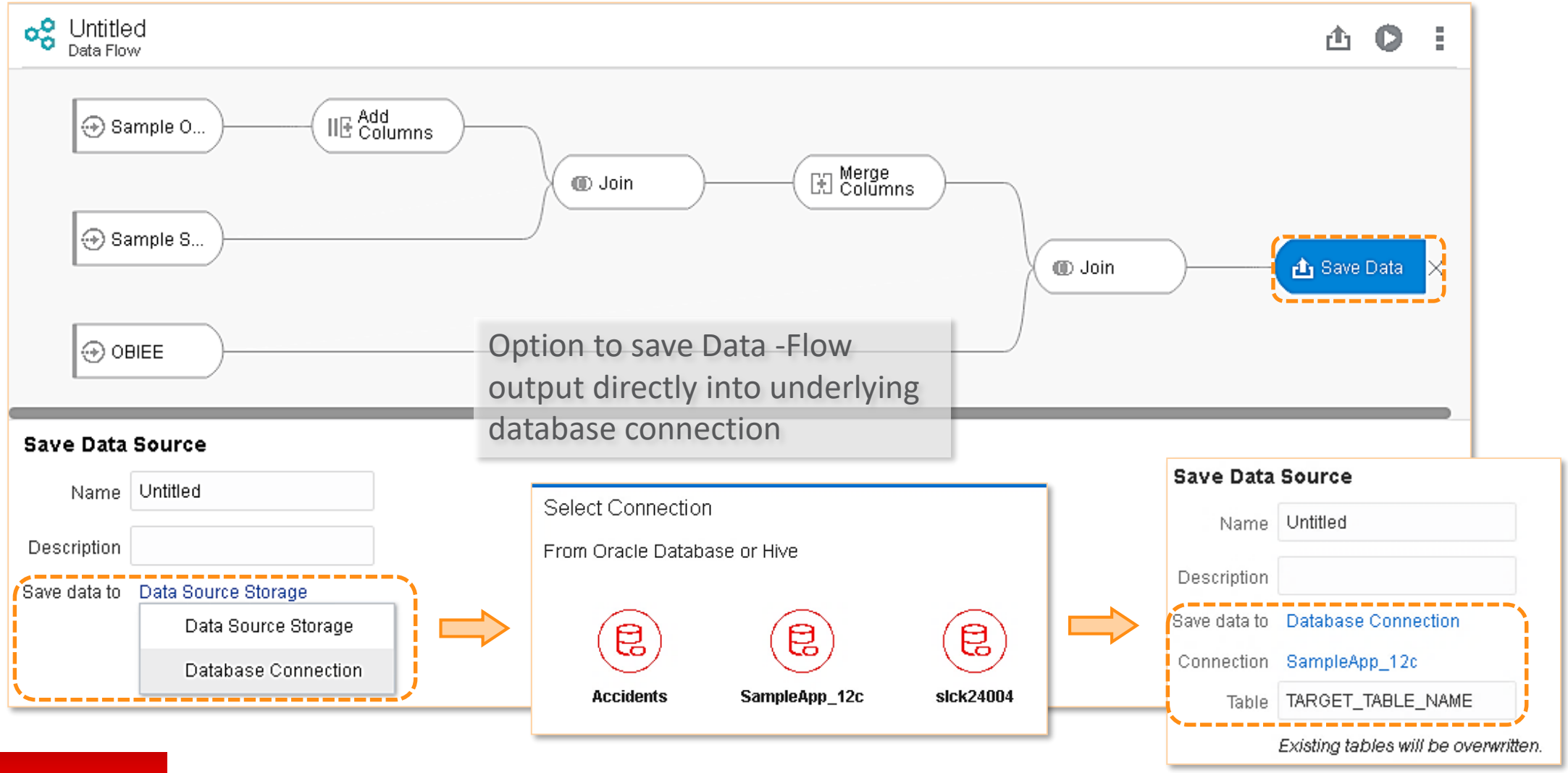


Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

D – Data Flows

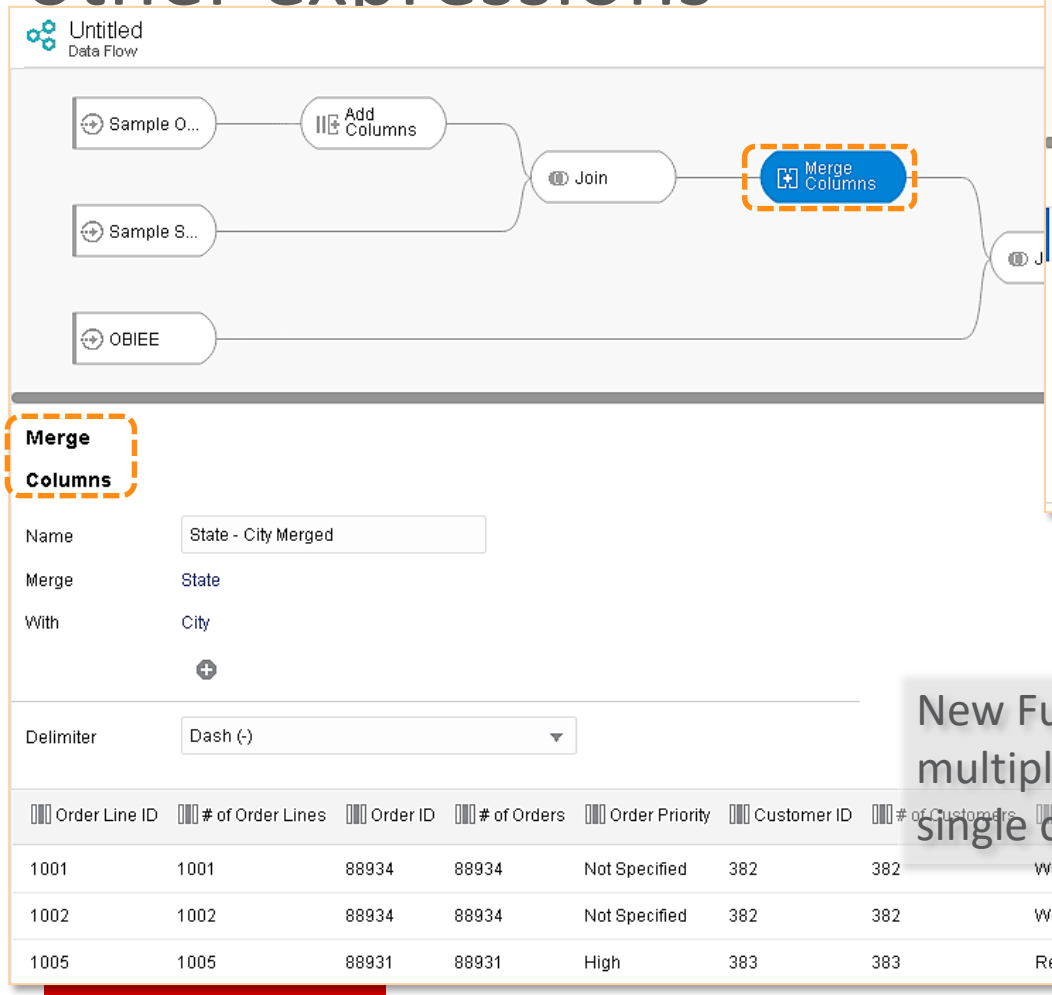
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

12 - Data Flow Improved flow-chart UI
13 - Deliver DF output to remote connection

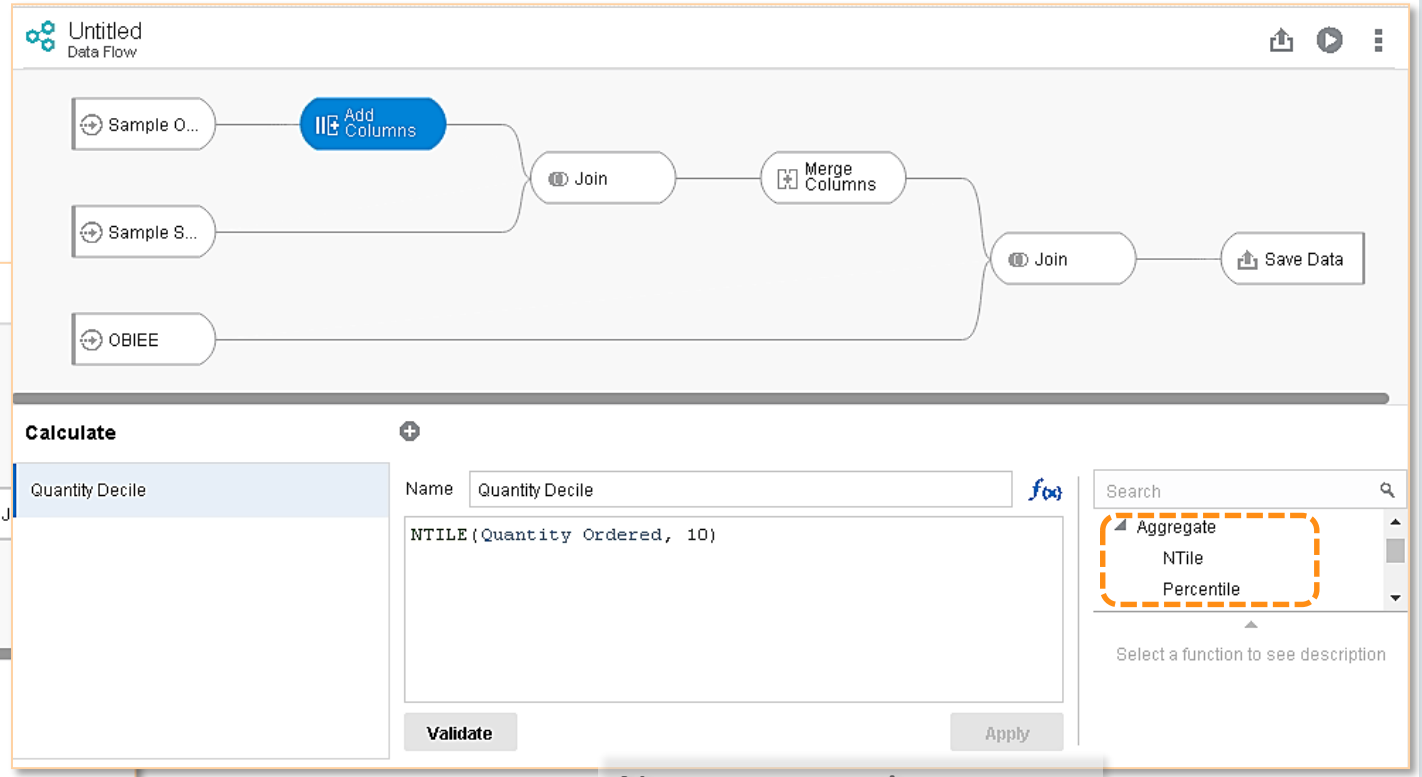


Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

14 - Data Flow Merge column and other expressions



New Function to merge multiple columns into a single column



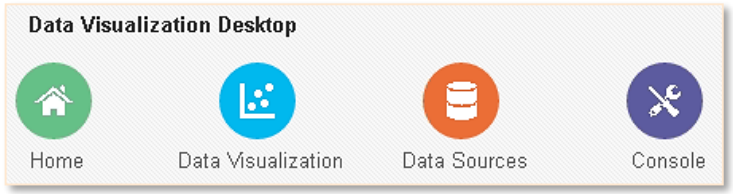
New aggregation calculations available in expression editor

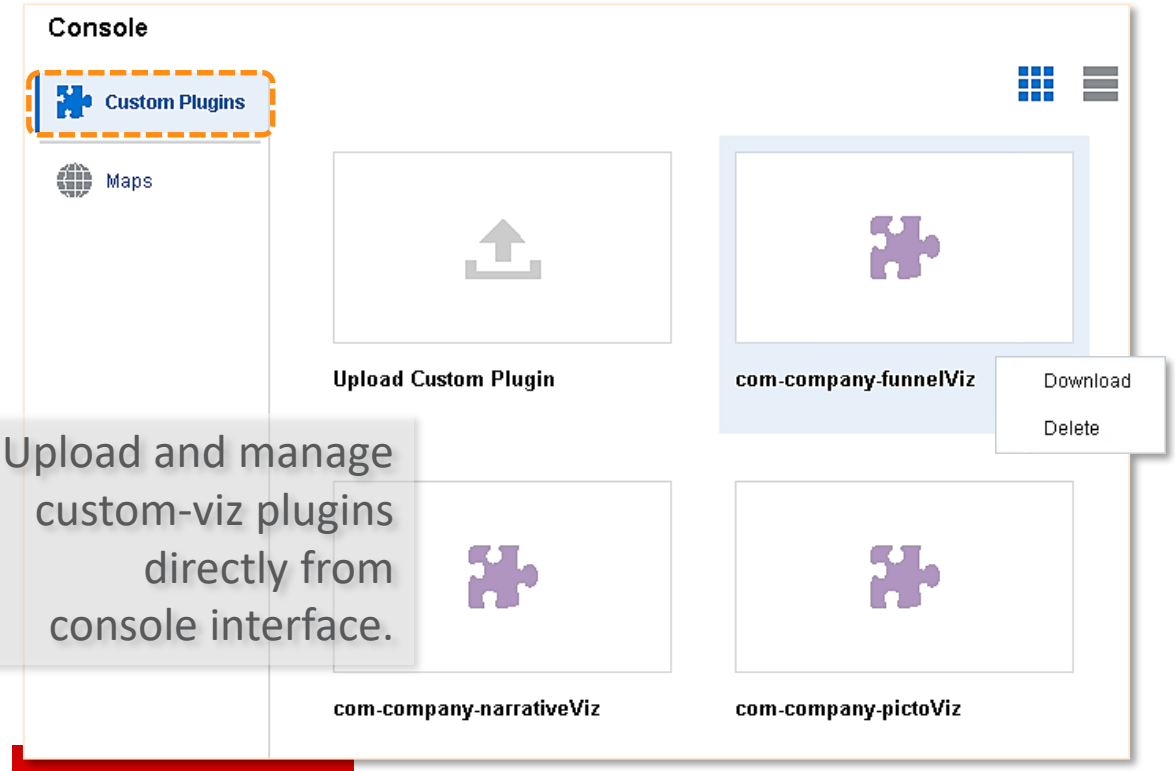
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

E – Console & Admin

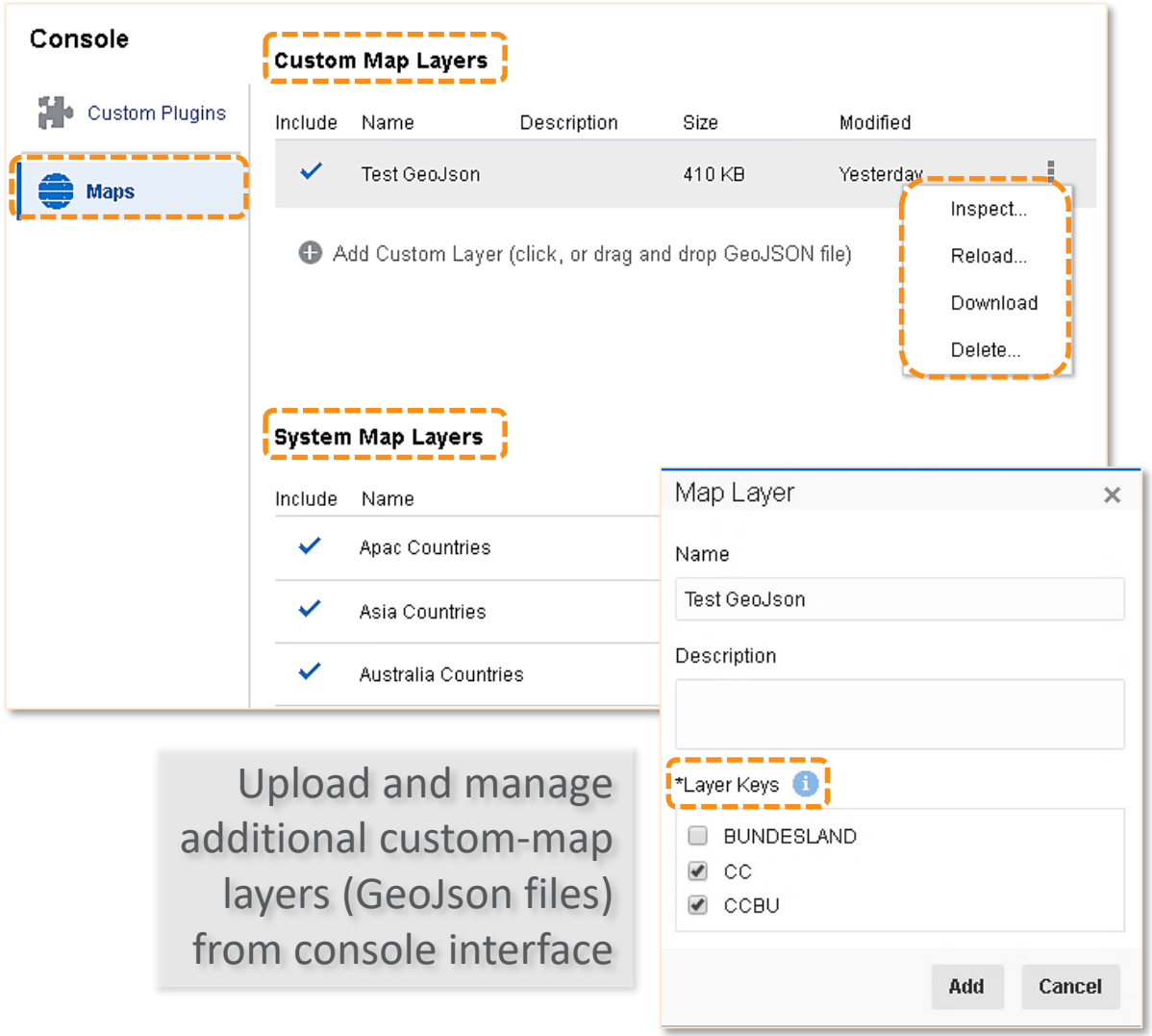
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

15 - Custom Viz plug-ins,
16 - Custom Map Layers upload console





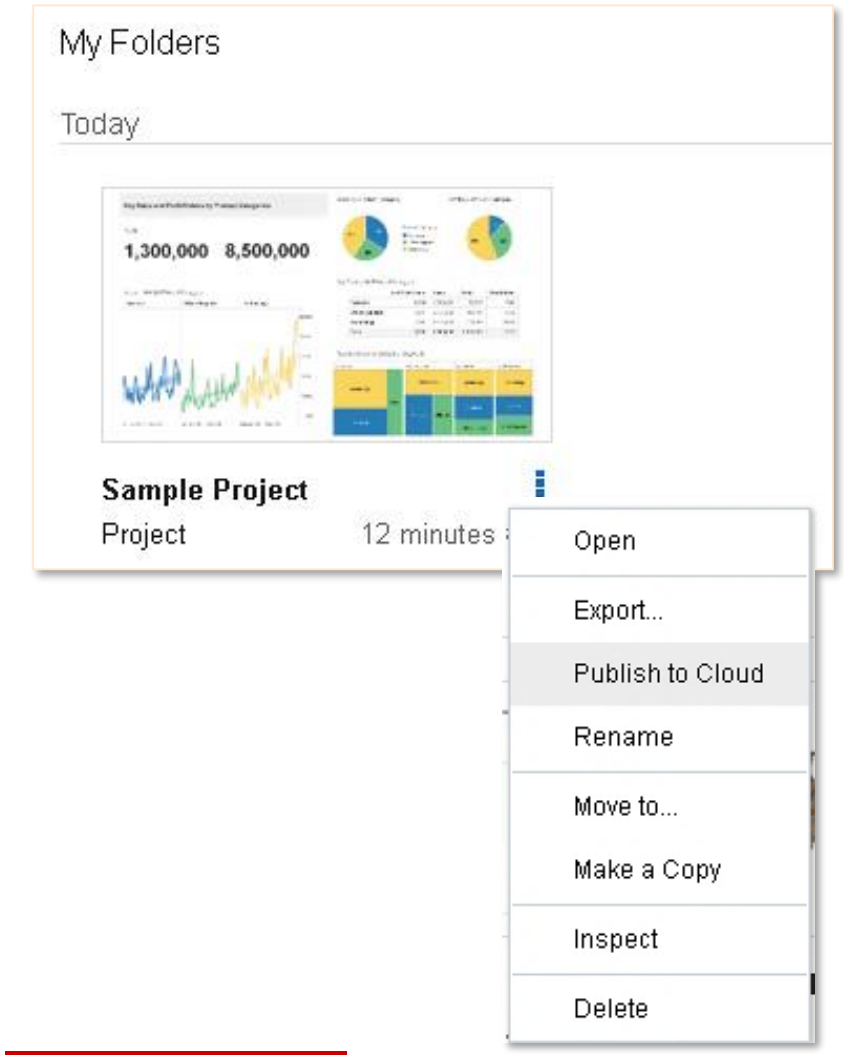
Upload and manage custom-viz plugins directly from console interface.

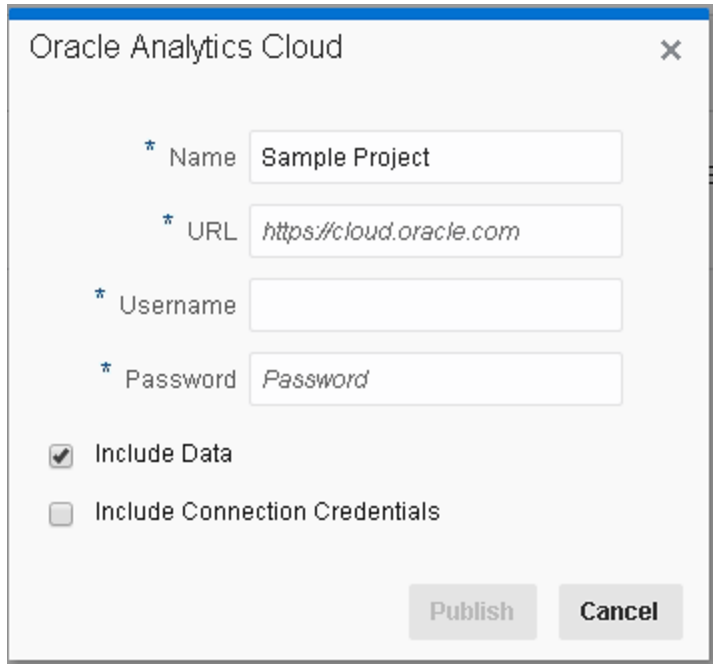


Upload and manage additional custom-map layers (GeoJson files) from console interface

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

17 - Single-click publish project to Cloud



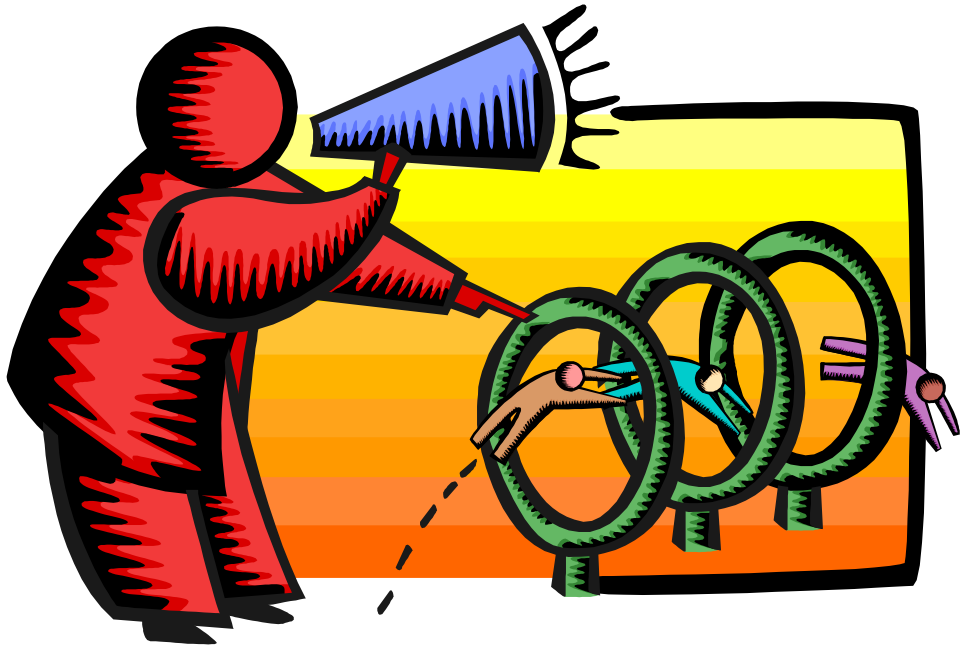


Right click option to directly publish DV Project to cloud.

This feature will only work with upcoming release of Oracle Analytics Cloud

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Demo



Copyright © 2017, Vlamis Software Solutions, Inc.

CELEBRATING EXCELLENCE
vlamis 25 YEARS
SOFTWARE SOLUTIONS

Oracle Analytics Store

Map layer: Spain

Oracle Data Viz

July 31, 2017

Three different layers for the country of Spain including, communities, municipalities, provinces. Download prebuild .dva(Admin123) examples.

Read Me | Download

CalcModifier

Oracle Data Viz

July 20, 2017

The CalcModifier plugin allows you to modify multiple instances of variables in your custom calculations in one go, which gives you ability to perform light-weight what-if scenarios easily in your DV analyses.

Download

InfoGraphic Viz Plugin

Peak Indicators

July 19, 2017

This Info Graphic Viz plugin developed by PEAK indicators enables you to display nice info graphic visuals within Oracle DV. It supports the use of your own custom images. A number of properties that allow you to specify the icon to use, font size, look at icons only for a specific population etc make this a very compelling visualization.

Download

LinesOnMap Viz Plugin

Oracle Data Viz

July 11, 2017

Custom viz plugin that draws line geometries on a map using source & destination lat long coordinates. Geodesic line (curved) geometries are also supported in this plugin. Color and Size of the lines can be modified by the grammar which helps in depicting a clear picture of the data flows.

Download

Map layer: Brazil

Oracle Data Viz

July 10, 2017

Four different layers for Brazilian Territorial States, Mesoregions, Microregions and Cities shapes. Includes .dva(Admin123) examples

Download

Map layer: Washington DC (Metro)

Oracle Data Viz

July 10, 2017

Example of line geometry based custom map layer depicting Metro lines in Washington DC. Package contains custom map layer JSON file and a sample .dva project(Admin123) to demonstrate this custom layer. Import the JSON using custom map layers UI manager and choose both Name and ObjectID as layer keys.

Download

Map layer: France Departements

Oracle Data Viz

July 07, 2017

JSON file for France showing all the departements within France(Departement is an administrative division in France). This package also contains a sample .dva project to demonstrate this custom map layer which shows the area and population of various departements in France.

Map layer: Floor Plan Map

Oracle Data Viz

July 05, 2017

This is an example of non geographic custom map layer. This package contains a JSON for Floor Map showing different Rooms/sections on the floor. Import this JSON using custom map layers UI manager and choose CAGE_ID as layer key.

Arena Layout

OAC Data Viz

June 21, 2017

Map depicting arena layout in Oracle DV. Project import password=Admin123.

Download

Geocoding

OAC Data Viz

June 21, 2017

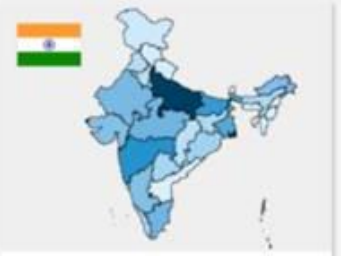
Custom R Script that performs Geocoding on Address data. Geocoding is a process of transforming postal address description to a location on earth's surface like latitude and

Map layer:Airports Around the World

Oracle Data Viz

July 07, 2017

This is an example of custom map layer showing airports worldwide using point geometry coordinates. Import the JSON using custom map layers console in your Oracle DV and choose 'code' as layer key.Password to dva project is Admin123.



Custom Map layer: India States

OAC Data Viz

June 21, 2017

JSON file for India Map with latest States and their Boundaries and also includes some of the indian Archipelago Islands.The package contains custom map layer and a

Copyright © 2017, Vlamis Software Solutions, Inc.

http://www.oracle.com/goto/OAStore

CELEBRATING EXCELLENCE
vlamis 25 YEARS
SOFTWARE SOLUTIONS

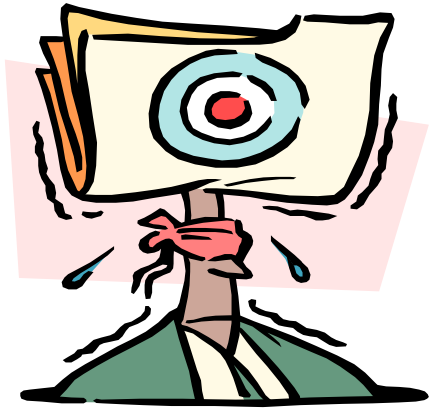
BIWA Summit 2018

www.biwasummit.org for more information. Now pre-selecting presentations.

Copyright © 2017, Vlamis Software Solutions, Inc.

CELEBRATING EXCELLENCE vlamis 25 YEARS SOFTWARE SOLUTIONS

Resources and Questions?



Dan Vlamis
Email: dvlamis@vlamis.com
Twitter: @dvlamis
Phone (816) 781-2880

Vlamis Software Solutions
Twitter: @vlamissoftware

Vlamis Home www.vlamis.com Blog www.vlamis.com/blog Prior OBIEE releases www.vlamis.com/obiwebinars

Help on new features http://docs.oracle.com/en/middleware/bi/data-visualization-desktop/index.html
Oracle Analytics Public Store with plugins http://www.oracle.com/goto/OAStore
YouTube channel BI Tech Demo from SampleApp Team https://www.youtube.com/user/OracleBITechDemos
Video on many new features https://www.youtube.com/watch?v=5ndlZNNMtEo

BIWA Summit 2018 Conference http://www.biwasummit.org

Copyright © 2017, Vlamis Software Solutions, Inc.

CELEBRATING EXCELLENCE vlamis 25 YEARS SOFTWARE SOLUTIONS