



Don't Throw Away Your Discoverer investment.

Revitalize Your Visualizations with
Analytics Cloud

MAY 15 & 16, 2019

CLEVELAND PUBLIC AUDITORIUM, CLEVELAND, OHIO

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ABOUT THE PRESENTER

- Oracle ACE Director Specialty Applications
- More than 15 years Oracle Applications Experience
- Head of IT at IT Convergence since 2006
- Co-Author "Oracle E-Business Suite Financials Handbook 3rd Edition"
- Technical Editor "Oracle Fusion Applications Development and Extensibility Handbook"
- President Argentina Oracle User Group (ARoug)
- President Latin America Oracle User Community (LAOUC)

About IT Convergence

1998

FOUNDED

800+

EMPLOYEES

12

GLOBAL OFFICES

600+

CUSTOMERS

50

COUNTRIES DEPLOYED

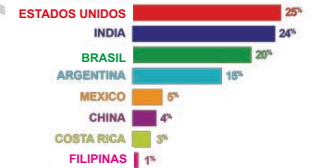
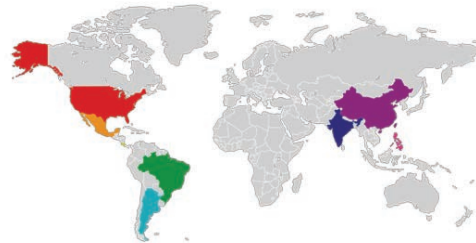


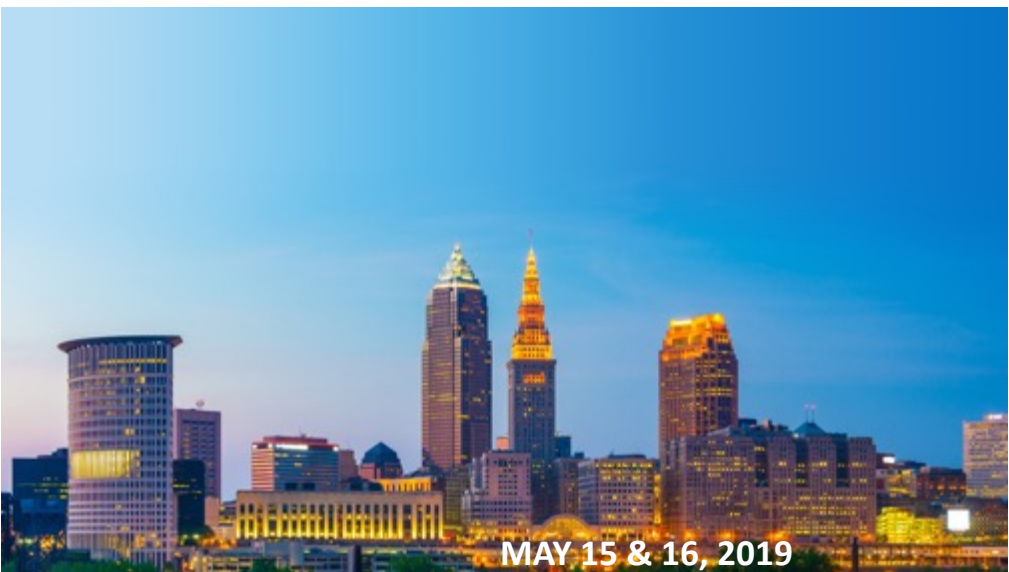
THE AMERICAS
USA, CANADA, MEXICO, NICARAGUA, EL SALVADOR,
COSTA RICA, PANAMA, COLOMBIA, VENEZUELA,
PUERTO RICO, DOMINICAN REPUBLIC, PERU, BRAZIL,
BOLIVIA, PARAGUAY, CHILE, URUGUAY, ARGENTINA

EUROPE
SPAIN, ITALY, FRANCE, NETHERLANDS, BELGIUM, UNITED
KINGDOM, NORWAY, FINLAND, SWEDEN, DENMARK,
GERMANY, POLAND, CZECH REPUBLIC, HUNGARY,
ROMANIA, AUSTRIA, SWITZERLAND

AFRICA
SOUTH AFRICA, GABON, UGANDA, BUENI, MALI, EGYPT,
SAUDI ARABIA, DUBAI, KUWAIT, SENEGAL, GUINEA,
MOROCCO, TUNISIA, ISRAEL, TURKEY

ASIA-PACIFIC
CHINA, INDIA, SINGAPORE, JAPAN, KOREA, TAIWAN,
HONG KONG, VIETNAM, PHILIPPINES, MALAYSIA,
INDONESIA, AUSTRALIA



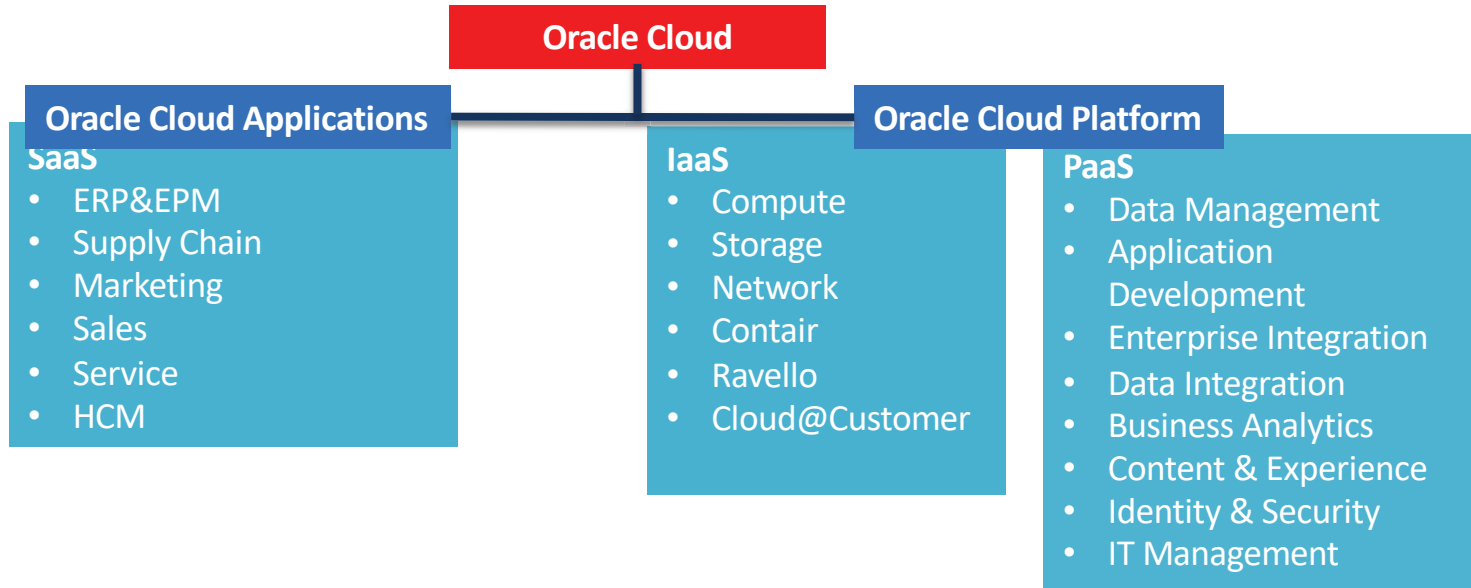


Overview of product

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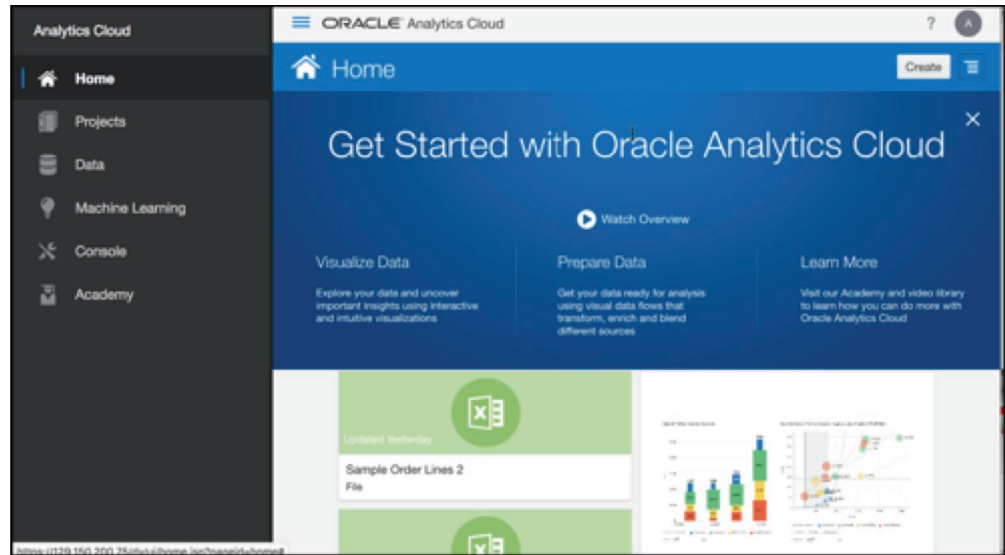
Oracle Cloud: A simple view



What is Oracle Analytics Cloud Service?

✓ OACS is an unified analytic platform that offers:

- ✓ Self service analytics
 - ✓ Business Model Layer
 - ✓ Big data analysis
 - ✓ Pixel Perfect Reporting
 - ✓ Predictive analytics
 - ✓ Machine learning
- ✓ Platform administration managed by the user



OACS - Characteristics

- ✓ Scalable: more CPU can be added
- ✓ Access to the server using SSH
- ✓ Customizable: network configuration, VPN, etc.
- ✓ Automation via scripts: using REST-APIs (start/stop of the services), create and delete instances
- ✓ Administration tasks managed by the client: Monitoring, Patching and Upgrades

Oracle Analytics Cloud Service Options

Standard Edition

- ✓ DVCS
- ✓ Synopsis Mobile App
- ✓ DVD (50 Users per CPU)

Data Lake Edition

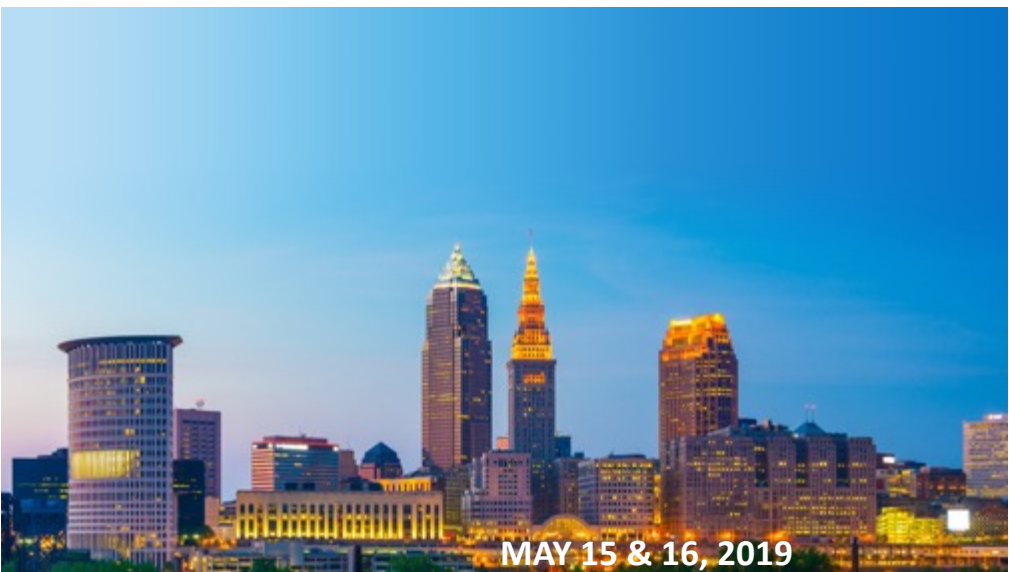
- ✓ Everything in SE +
- ✓ Essbase
- ✓ Analytics Cloud Data Flows
- ✓ Connectivity to:
 - ✓ On premise Data Lakes
 - ✓ Oracle Big Data Cloud

Enterprise Edition

- ✓ Everything in DLE +
- ✓ Oracle BI Cloud
- ✓ Day by Day Mobile App

Why should I move to Oracle Analytics Cloud ?

- ✓ Easier Maintenance
- ✓ Upgrade when you are ready with a couple of clicks
- ✓ New features are deployed first in the Cloud.
- ✓ Cheaper option than on-premise
- ✓ Unified platform and administration



MAY 15 & 16, 2019

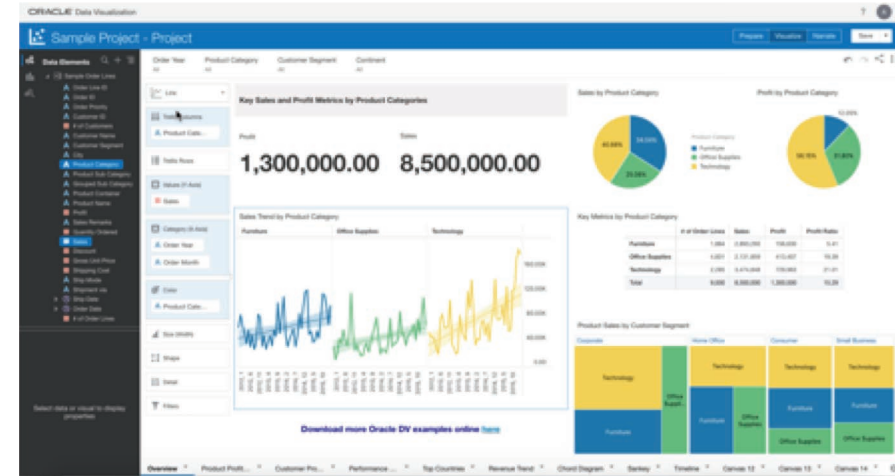
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**Experience the power of
results**

OAC – Data Visualization

- ✓ Self- Service Analytics
 - ✓ Intuitive and easy to use
 - ✓ Oriented to Business Users
- ✓ Can connect to a variety of data sources
- ✓ Sources can be combined without coding or SQL knowledge
- ✓ It also includes Desktop and Mobile version



Data Visualization – Key Features

- ✓ Ideal for
 - ✓ Data Exploration
 - ✓ Data Discovery
- ✓ Change layouts to present new insights
- ✓ Answer questions quickly with online search and guided navigation



Any Data

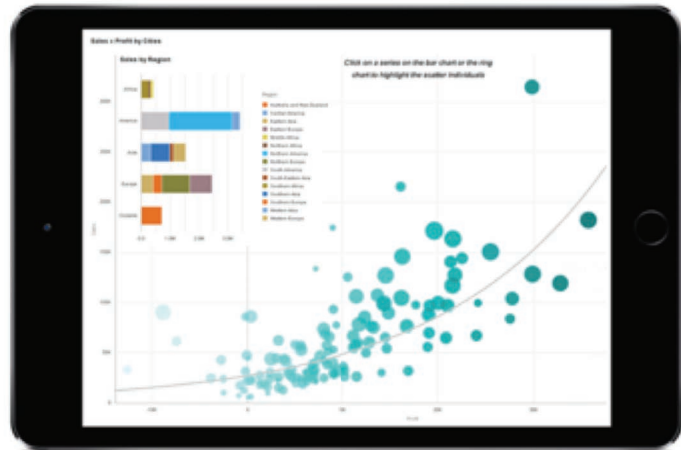
✓ Can connect to more than 40 sources including:

- ✓ Excel and CSV files
 - ✓ Databases
 - ✓ Fusion Apps
 - ✓ Big data sources
- ✓ Allow you to combine them very easily



Anywhere, Anytime

- ✓ Oracle Analytics Cloud (any Edition)
- ✓ On premise: Data Visualization Desktop
- ✓ Data Visualization is instantly mobile.



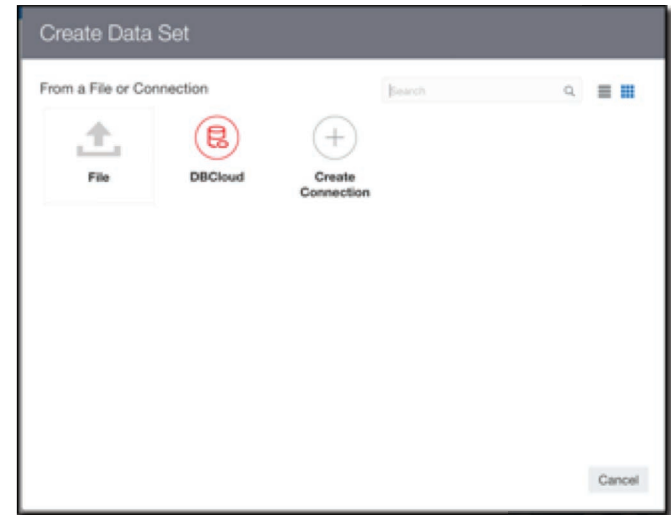
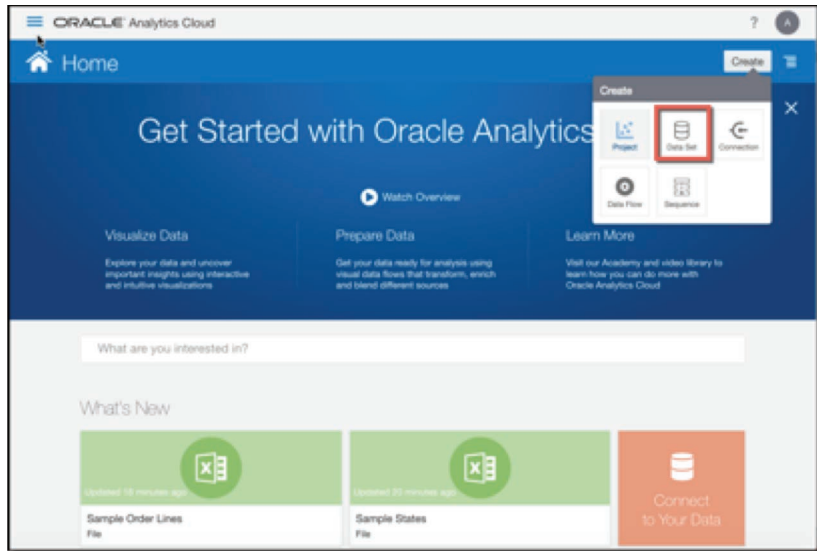
Data Visualization – Getting Started

1. Create Data Sets
2. Create a Project
 - ✓ Select a Data Set
 - ✓ Drag & Drop attributes to create Data visualizations
 - ✓ Add filters
 - ✓ Combine with other sources
3. Create the story of the data with the Narrate option
4. Share the Project



Data Visualization – Creating Data Sets

- ✓ Upload Excel files or create connections to different types of sources



Data Visualization – Creating Data Sets

- ✓ Upload the Excel file
- ✓ Define the columns as **Attribute/ Measure**
- ✓ Name the dataset and press the **Add** button to include as a data set

Untitled - Data Set

Name: Sample Order Lines (2)

Description: Uploaded from Sample Order Lines.xlsx

Uploaded File: Sample Order Lines.xlsx

Sheet: DV Orders

Owner: admin

Created: In Progress

Modified: In Progress

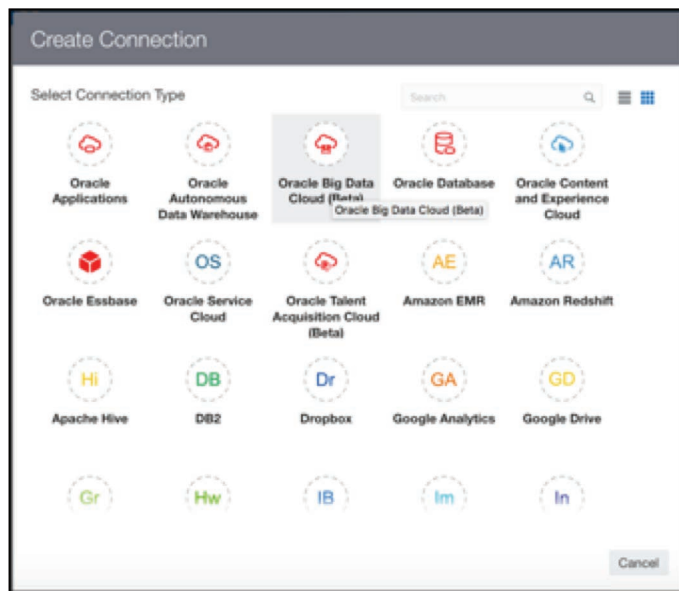
Refreshed: Never

(3) Add Cancel

Profit	Quantity Ordered	Sales	Discount	Gross Unit Price	Shipping Cost	Ship Mode	Ship Date	Order Date
-410.82	2	186.39	Measure 8.37	101.30	35.00	Express Air	01/03/2013	01/01/2013 10:47:08:...
817.05	8	1,243.66	Attribute 84.46	163.64	7.07	Regular Air	01/09/2013	01/01/2013 04:34:06:...
104.84	11	160.60	7.81	15.87	1.97	Regular Air	01/02/2013	01/01/2013 04:08:56:...
19.61	4	35.02	1.86	9.62	2.15	Express Air	01/04/2013	01/01/2013 10:55:31:...
555.92	32	4,974.66	280.82	163.64	7.07	Regular Air	01/09/2013	01/01/2013 05:17:42:...
-18.45	3	121.94	7.37	43.24	2.99	Regular Air	01/04/2013	01/01/2013 01:46:47:...
-298.48	4	1,231.48	41.68	307.87	48.80	Delivery Truck	01/02/2013	01/01/2013 12:37:14:...

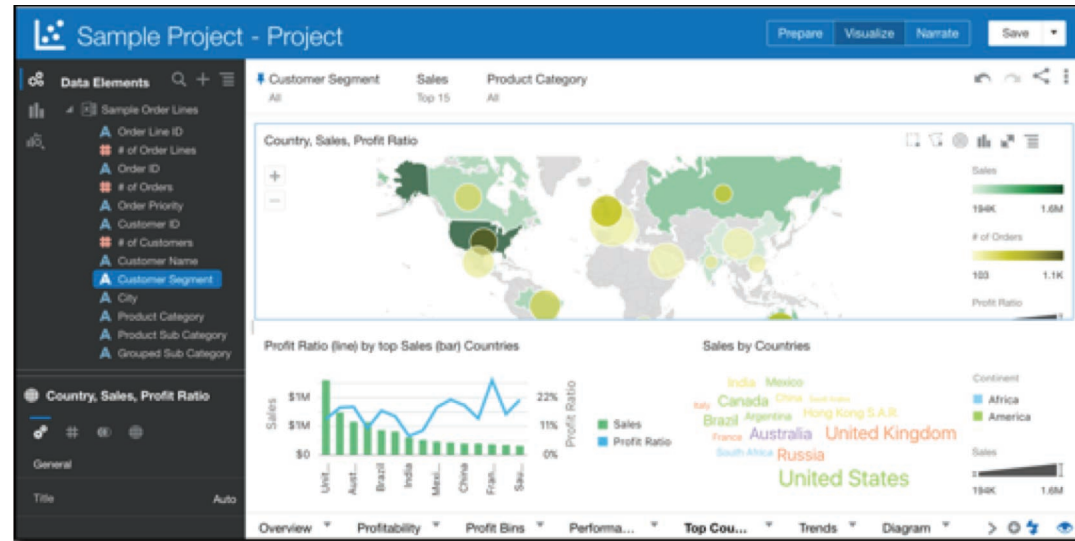
Data Visualization: Creating Connections

- More than 40 different types of connections



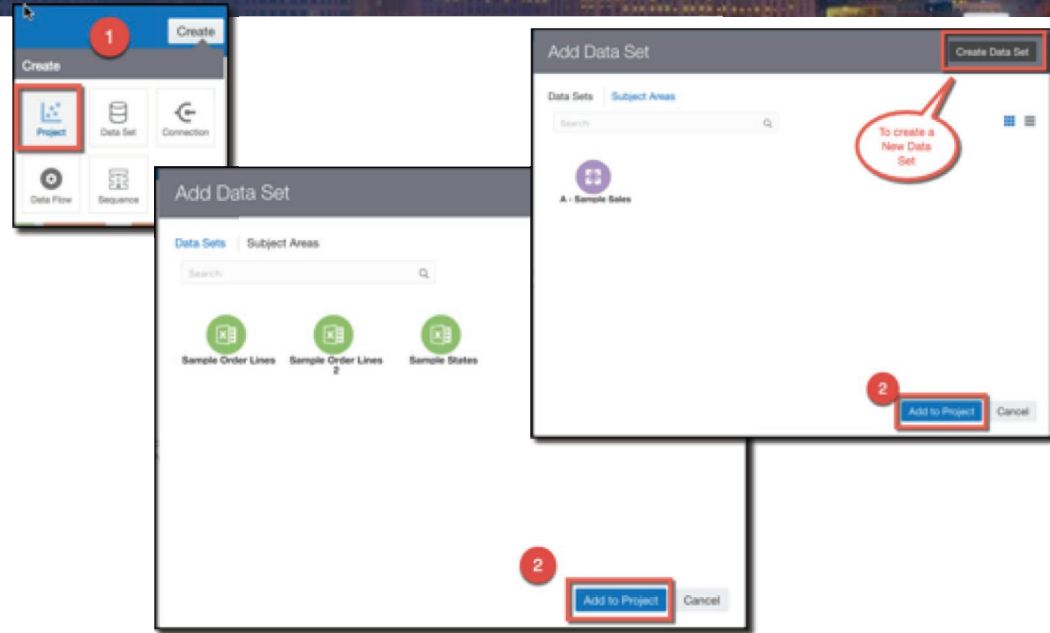
Data Visualization – Create a Project

- ✓ Select one Data Set
- ✓ Drag & Drop attributes to create Data visualizations
- ✓ Add filters
- ✓ Combine with other sources



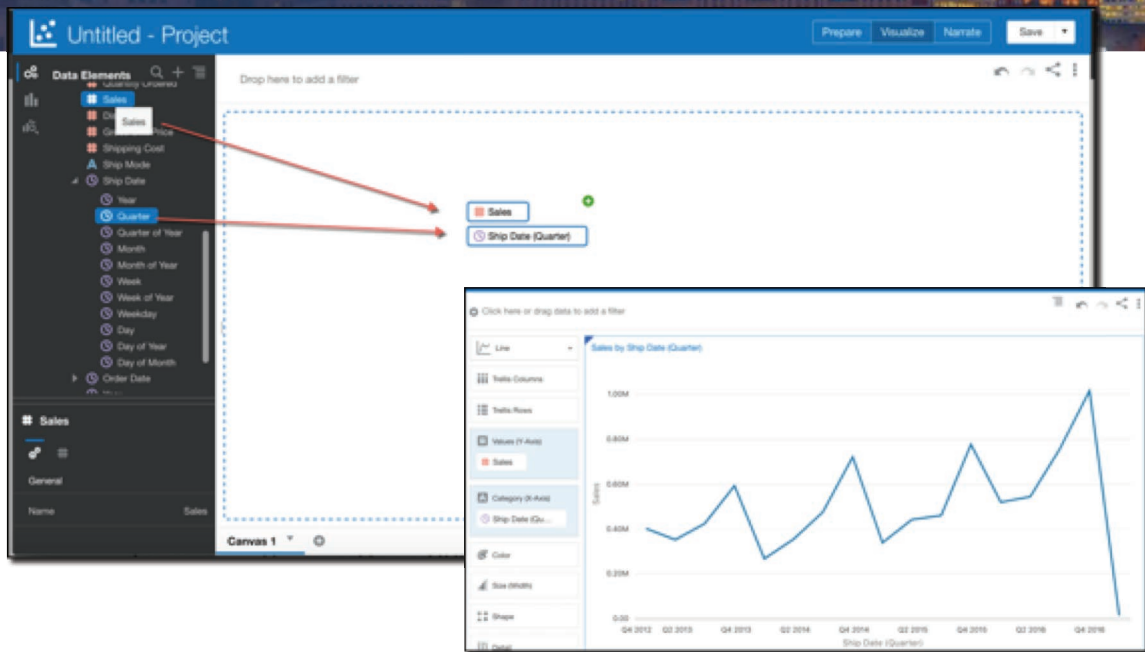
Create a DV Project – Step1: Select the Data Set

- ✓ Create a New Project
- ✓ Select the Data Set to use in the Project.
- ✓ This Data set could be:
 - ✓ An existent Data Set
 - ✓ A new Data Set
 - ✓ Excel File
 - ✓ Or from any other connection that you defined



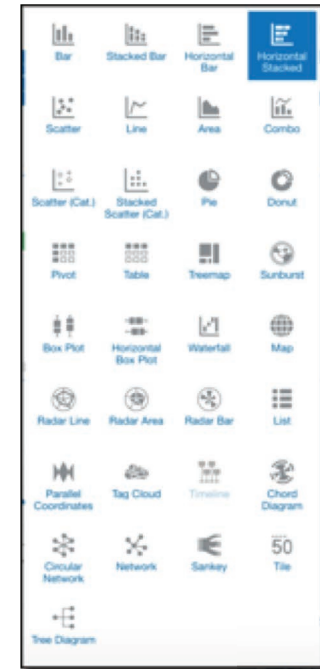
Create a DV Project – Step2: Select the Content

- ✓ To select content you can either:
 - ✓ Double-click on the columns from the Data Elements panel
 - ✓ Drag-and-drop the columns
- ✓ Ctrl-click can be used to select many columns



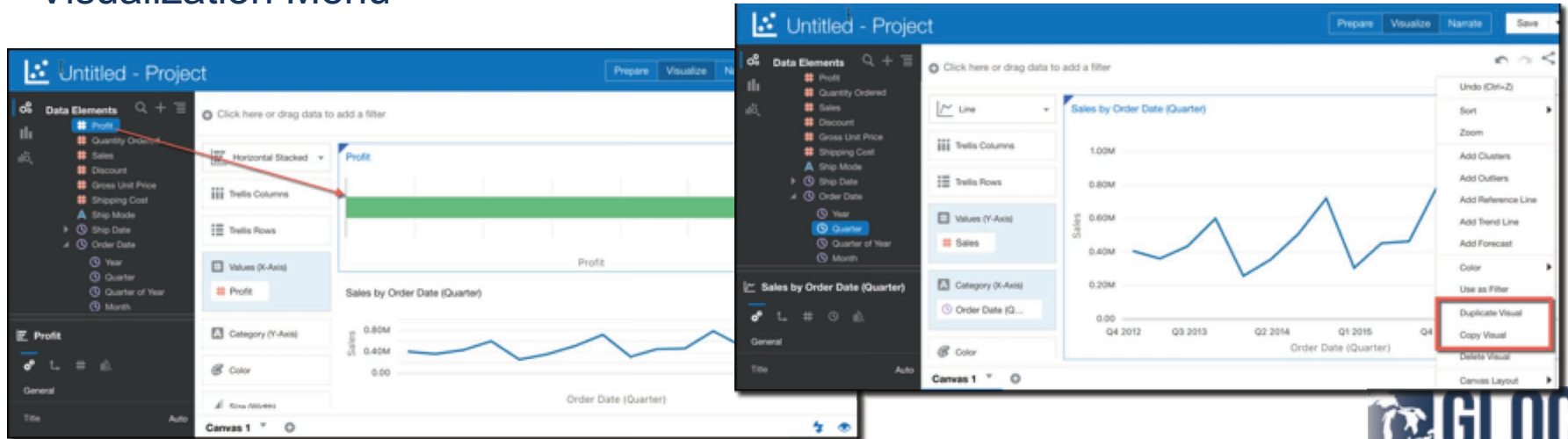
Create a DV Project – Visualization Types

- ✓ Data Visualization will choose the best visualization type depending on the selected data
- ✓ This visualization type can be changed.
 - ✓ More than 30 visualization options



Create a DV Project – Step3: Add Visualizations

- ✓ Add new content in the canvas out of the current visualization
- ✓ Duplicate an existing one with Duplicate and Copy options in the Visualization Menu



Create a DV Project – Adding Canvas

- Projects can contain one or more Canvas

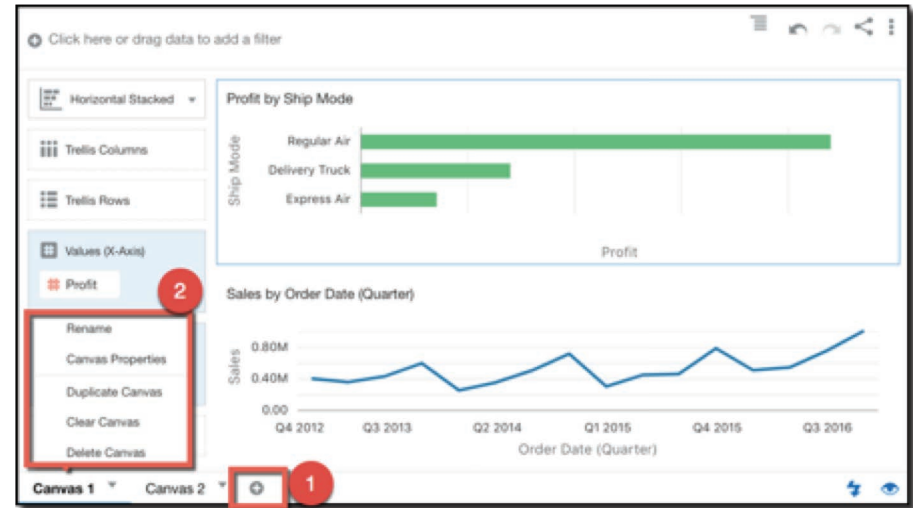
1. Add a new Canvas pressing the + icon

2. Manage Canvas

✓ Rename Canvas

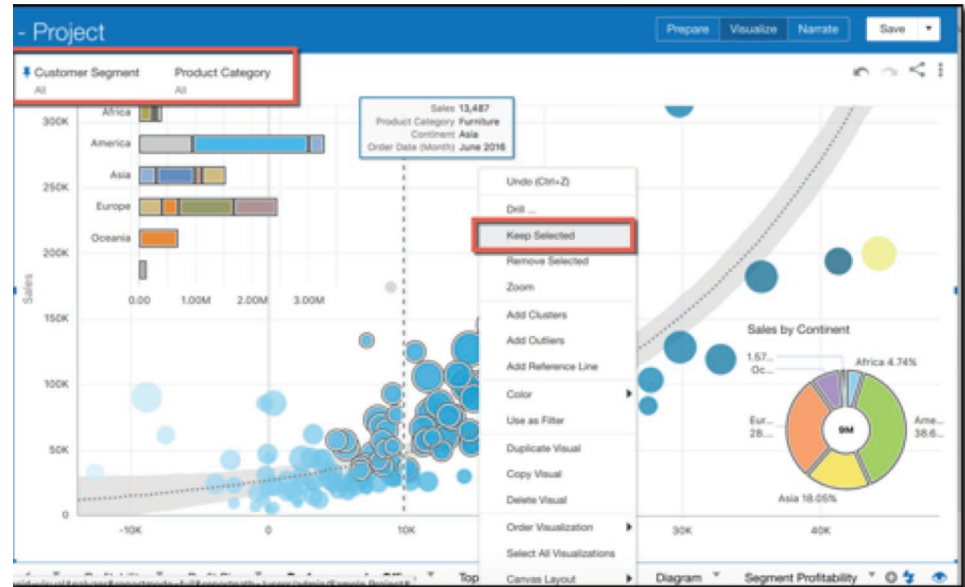
✓ Delete Canvas

✓ Clear the content of a Canvas



Data Visualization – Filtering the Data

- ✓ Filtering data to show only the information that is important for your data story.
- ✓ In Visual Analyzer:
 - ✓ Using the Keep Selected option
 - (implicit filter)
 - ✓ Creating filters (explicitly)
 - ✓ Filter options
 - ✓ Expression filter



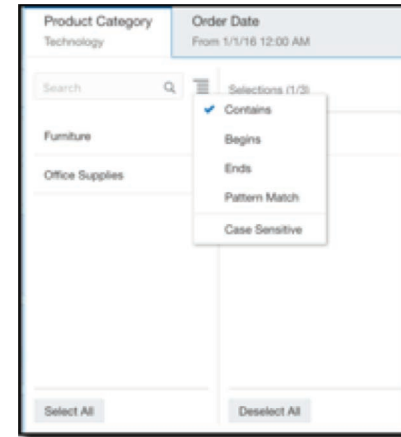
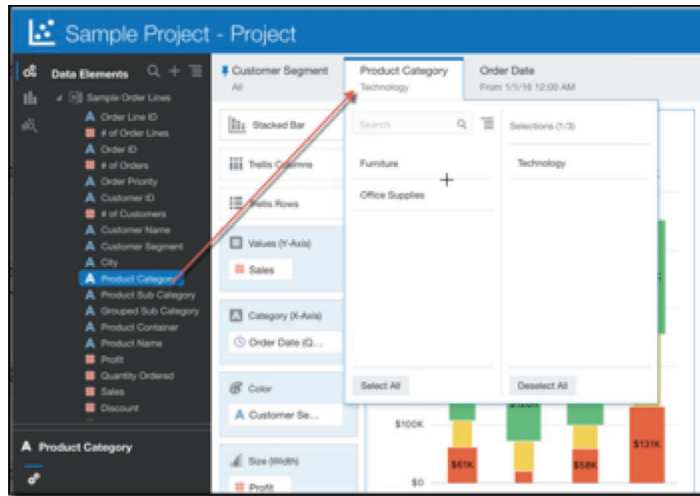
DV – Filtering the Data: Keep Selected

- ✓ Select values from a graph and right-click on the selection.
- ✓ Choose keep selected implicitly creates a filter



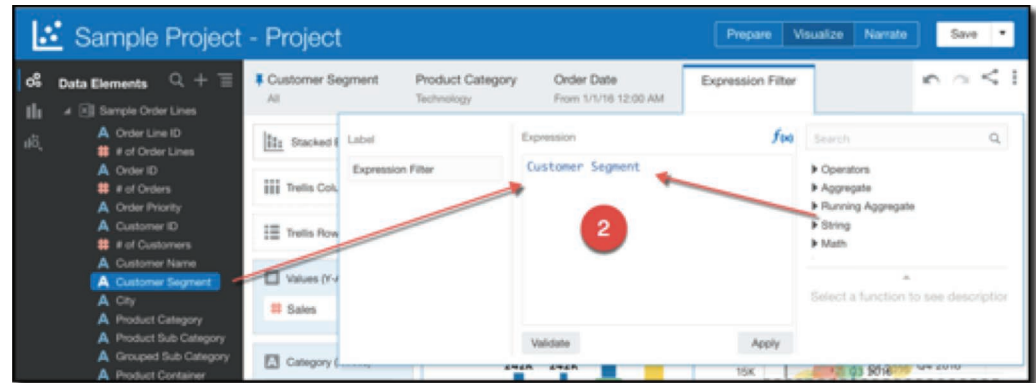
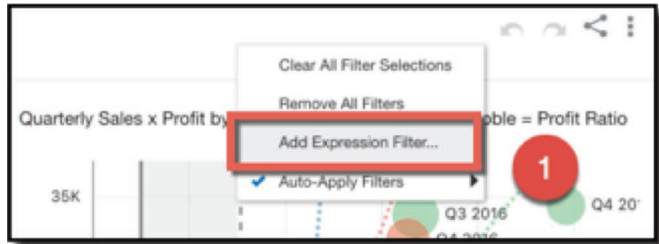
DV – Creating Filters

- ✓ Define filters in VA adding fields into the Filter area
- ✓ Then select the operator and the required values for this condition



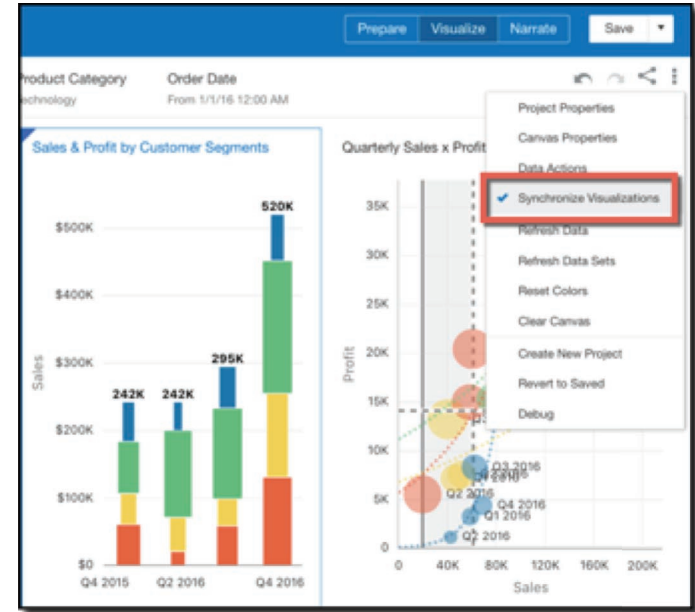
DV – Creating Expression Filters

- ✓ Use the Expression Filter to create more complex filters using functions



Data Visualization – Synchronize Visualizations

- ✓ By default the filters are applied to all the visualizations in the current Canvas
- ✓ To change it, uncheck the option **Synchronize Visualizations** in the Project Properties



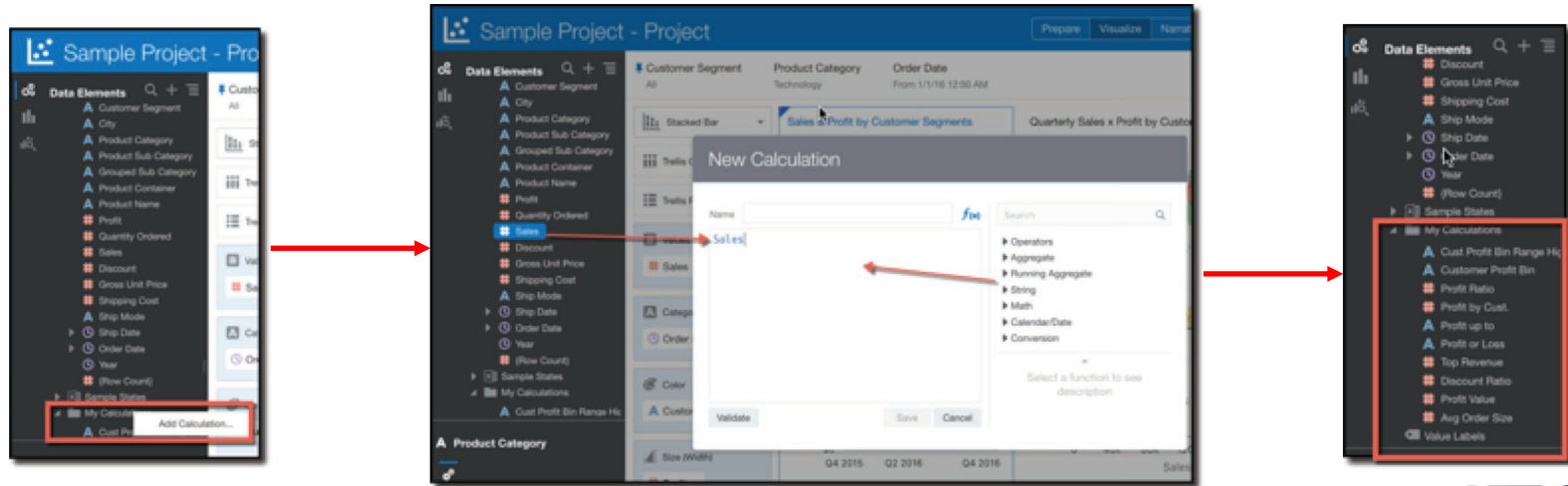
Data Visualization – Pin Filters

- ✓ To apply a filter to all the Canvases in a Project, select the **Pin** option



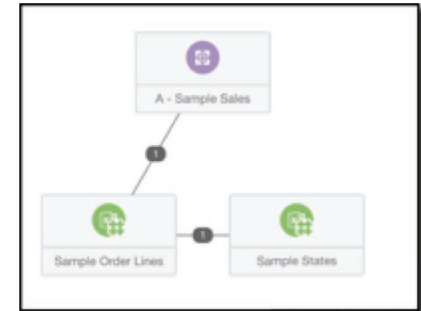
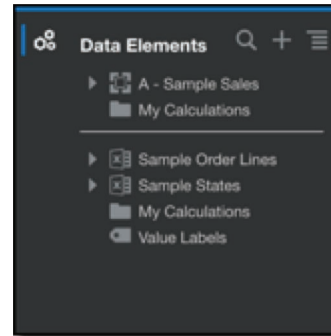
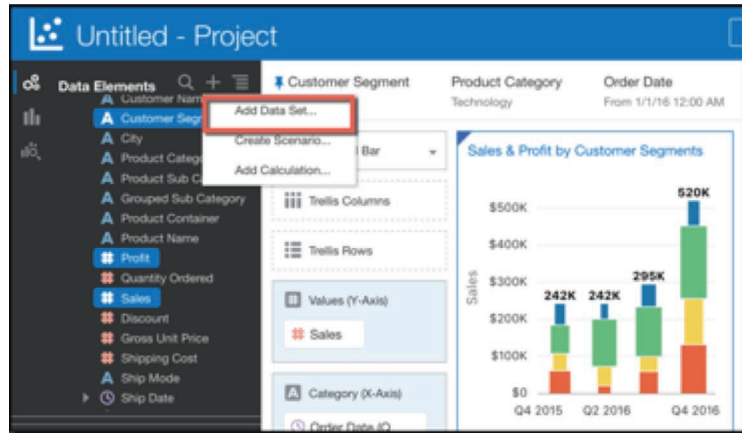
Data Visualization – Creating Calculations

- ✓ Wide variety of Functions with detailed help
- ✓ Columns can be added double-clicking on them in the Data Elements Panel



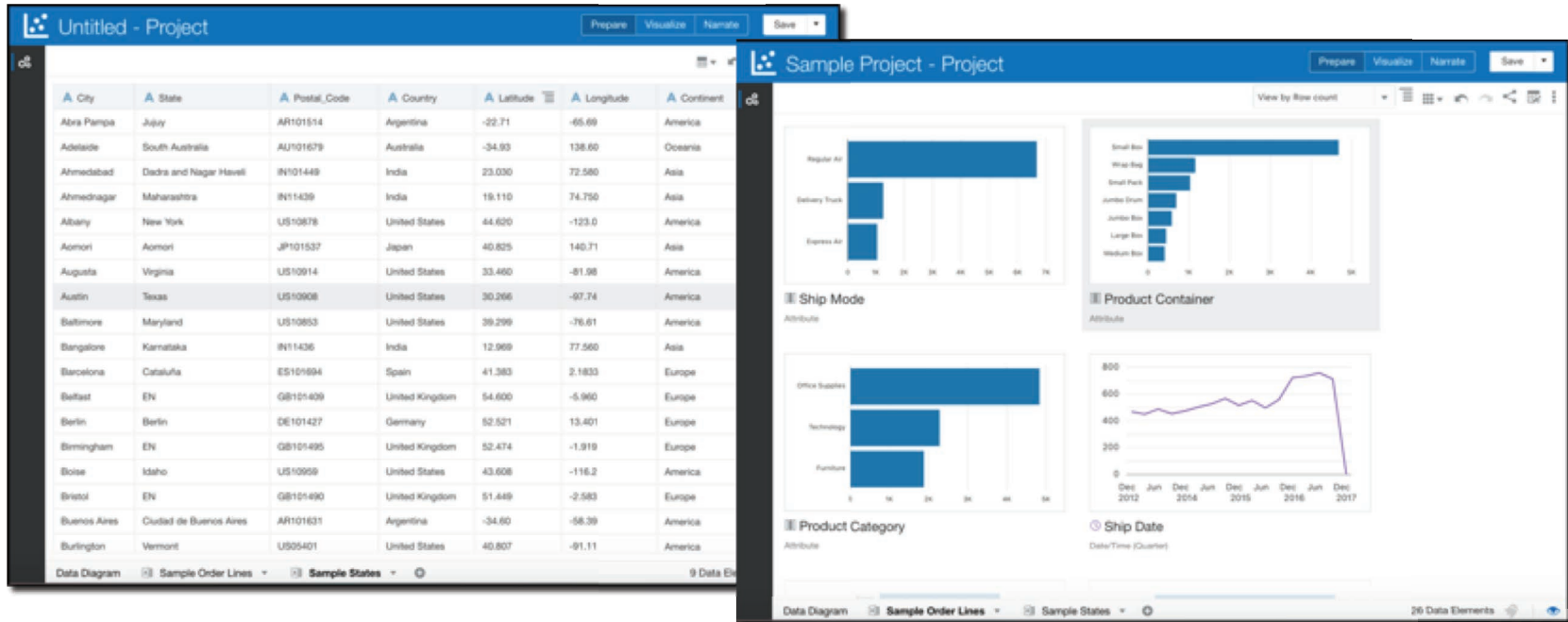
Data Visualization – Add More Data Sources

- ✓ Data sources can be added on the same project
- ✓ Doesn't need to exist a relationship between them
- ✓ If two sources in a project have the same type and name, DV creates a link between them.



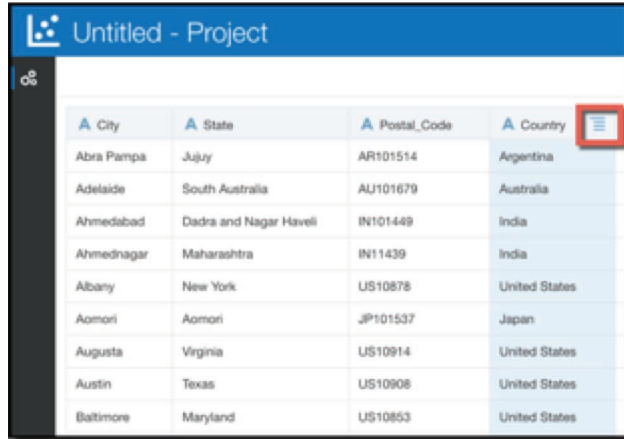
Data Visualization – Prepare the Data

- ✓ Visualize any source used on the Project on Table or Tile format.

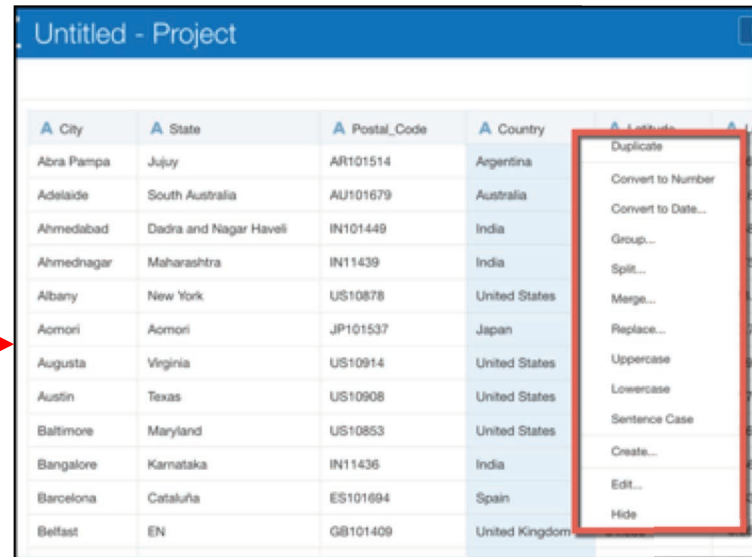


DV – Prepare Data – Table Format

- ✓ The Table format allows to perform data preparation, create new columns, split, merge, convert, etc.
- ✓ Select the options menu for a specific column



City	State	Postal_Code	Country
Abra Pampa	Jujuy	AR101514	Argentina
Adelaide	South Australia	AU101679	Australia
Ahmedabad	Dadra and Nagar Haveli	IN101449	India
Ahmednagar	Maharashtra	IN11439	India
Albany	New York	US10878	United States
Aomori	Aomori	JP101537	Japan
Augusta	Virginia	US10914	United States
Austin	Texas	US10908	United States
Baltimore	Maryland	US10853	United States

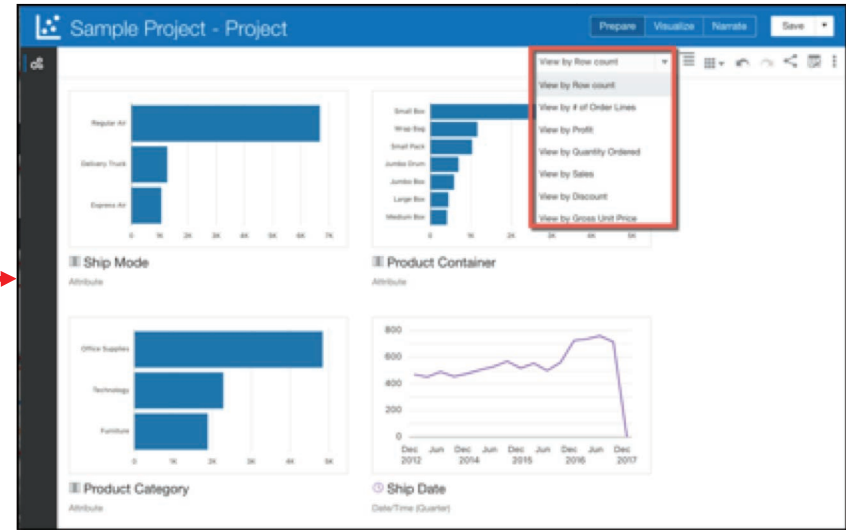
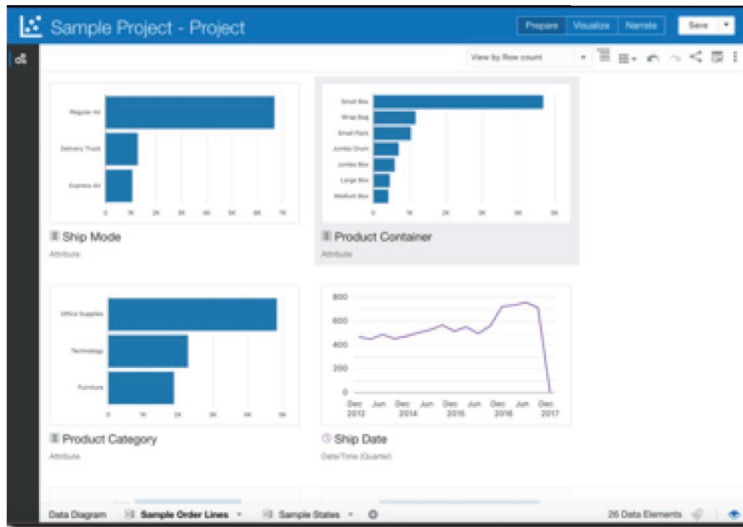


City	State	Postal_Code	Country
Abra Pampa	Jujuy	AR101514	Argentina
Adelaide	South Australia	AU101679	Australia
Ahmedabad	Dadra and Nagar Haveli	IN101449	India
Ahmednagar	Maharashtra	IN11439	India
Albany	New York	US10878	United States
Aomori	Aomori	JP101537	Japan
Augusta	Virginia	US10914	United States
Austin	Texas	US10908	United States
Baltimore	Maryland	US10853	United States
Bangalore	Karnataka	IN11436	India
Barcelona	Cataluña	ES101694	Spain
Belfast	EN	GB101409	United Kingdom

- Duplicate
- Convert to Number
- Convert to Date...
- Group...
- Split...
- Merge...
- Replace...
- Uppercase
- Lowercase
- Sentence Case
- Create...
- Edit...
- Hide

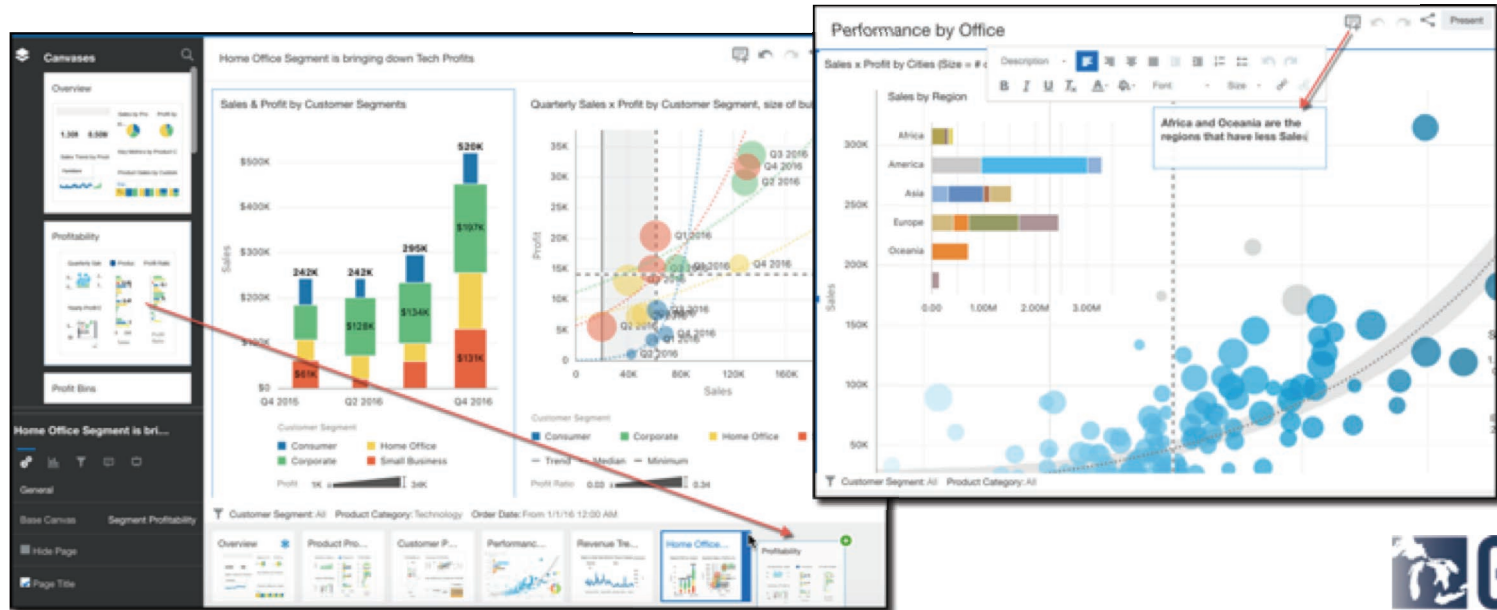
DV – Prepare Data – Tile Format

- ✓ The Tile format allows to analyze each column based on row count or other measures



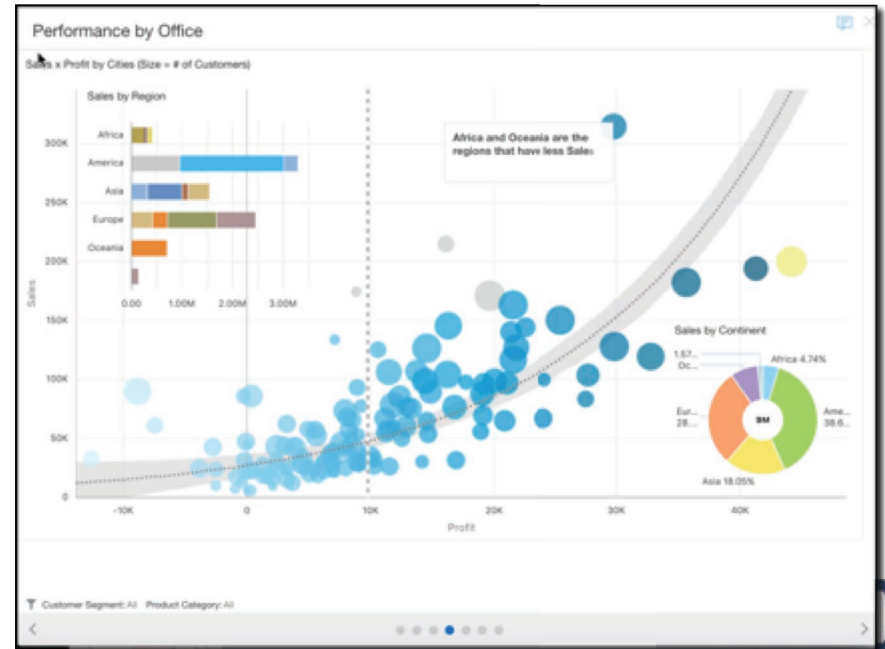
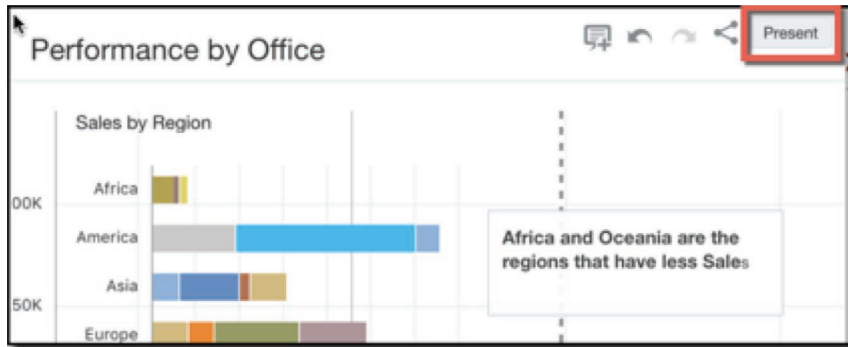
DV – Narrate the Data Story

- ✓ Tell the story of the data and adding text boxes sharing your insights
- ✓ Select the Canvas that will be part of your story adding it to the list below

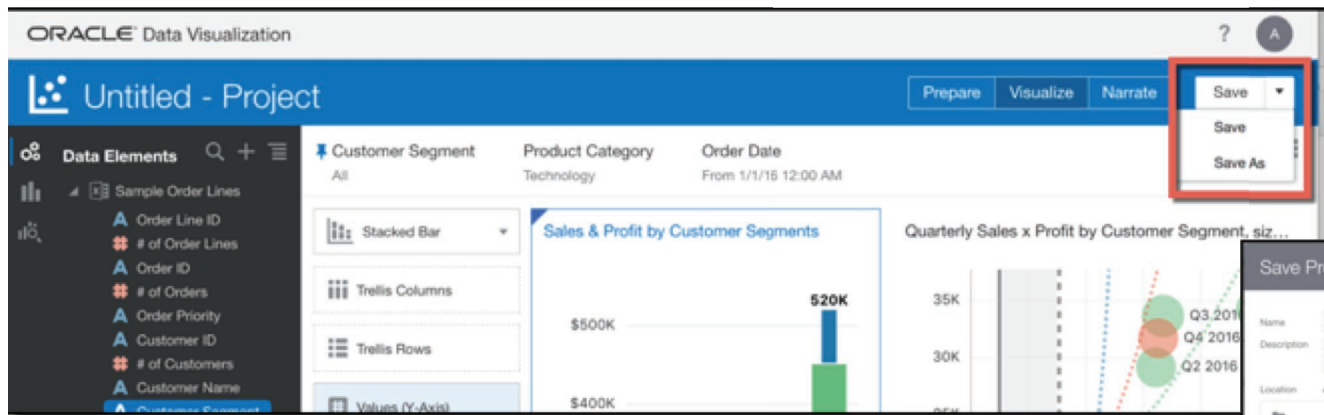


DV – Narrate the Data Story: Presentation Mode

- ✓ Telling the story of your data on Presentation Mode



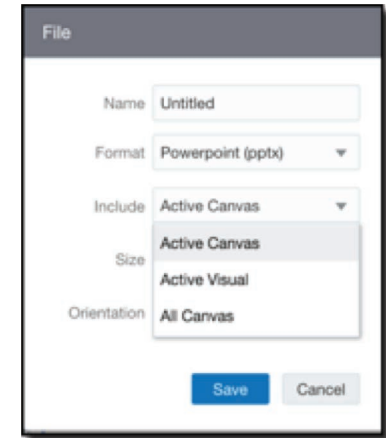
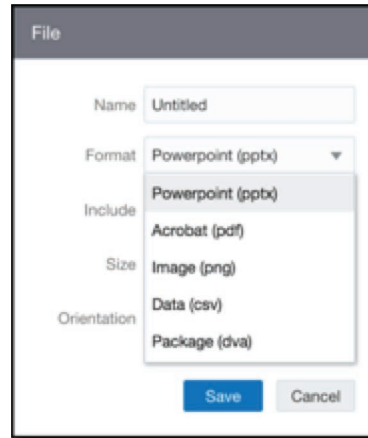
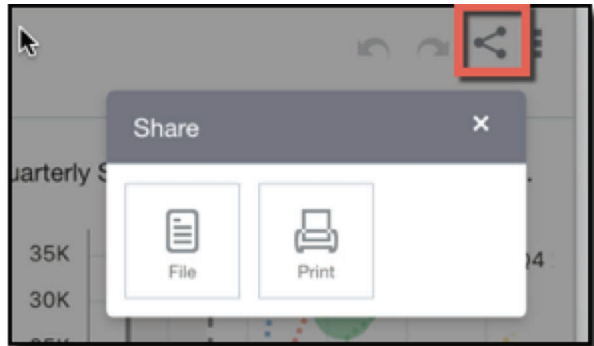
Data Visualization – Save the Project



The 'Save Project' dialog box is shown. It has a title bar 'Save Project'. Below the title bar are three input fields: 'Name' (set to 'Untitled'), 'Description' (set to 'Oracle DV Desktop Samples Overview'), and 'Location' (set to 'My Folders'). At the bottom right are 'Save' and 'Cancel' buttons.

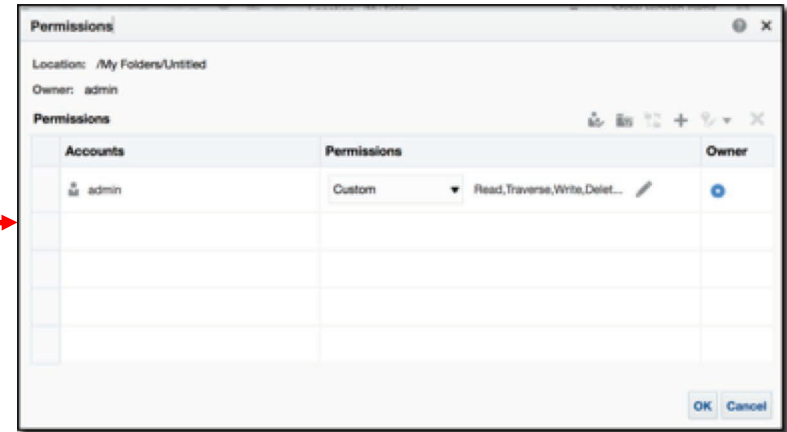
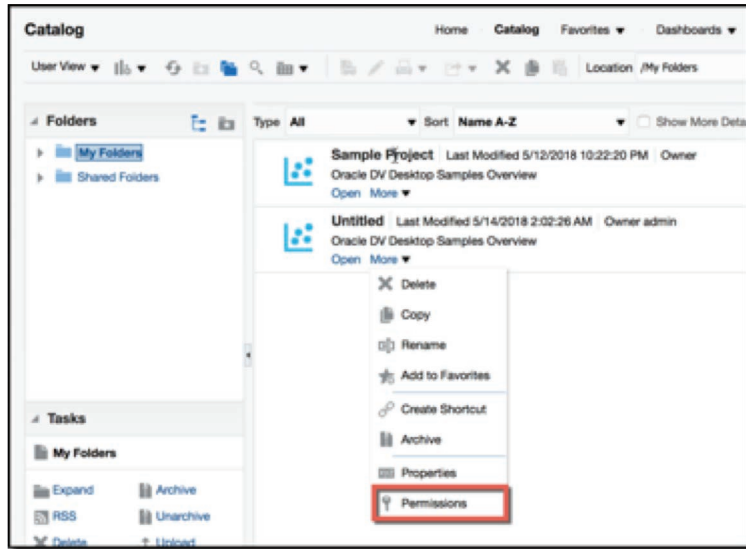
DV – Share your Project

- ✓ Download and Print your Project



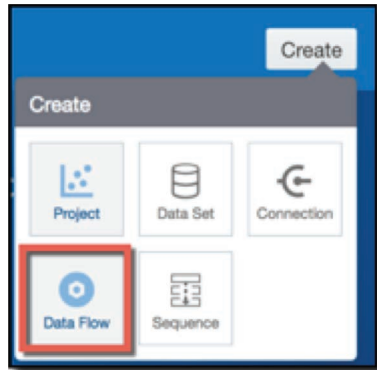
DV – Sharing your Project

- ✓ Share with another OAC users through BI Catalog



OAC – Data Flows

- ✓ Create new data sets creating data flows.
- ✓ Allow you to work with different Data Sources.

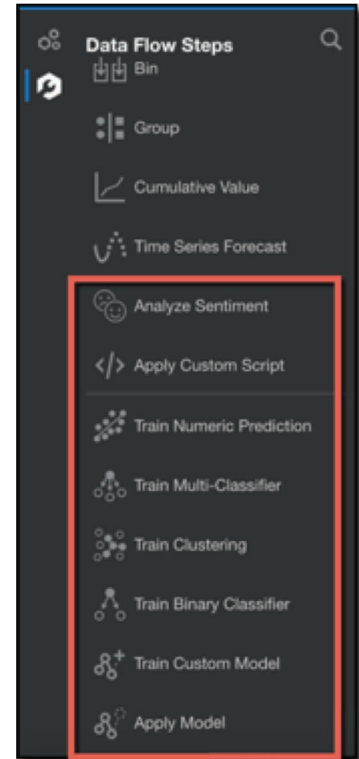
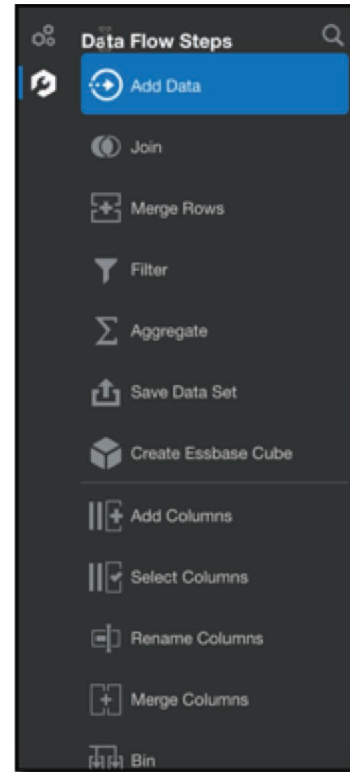


A screenshot of the Oracle Analytics Cloud interface for a new data flow. The title bar says 'ORACLE Analytics Cloud' and 'Untitled - Data Flow'. There are buttons for 'Execute Data Flow' and 'Save'. On the left, a 'Data Flow Steps' sidebar lists various actions: Add Data, Join, Merge Rows, Filter, Aggregate, Save Data Set, Create Essbase Cube, Add Columns, Select Columns, Rename Columns, Merge Columns, and Bin. The 'Add Data' step is selected, showing a 'Sample O...' button. Below this, the 'Add Data - Sample Order Lines' section shows a data set named 'Sample Order Lines' with a description 'Uploaded from Sample Order Lines.xlsx'. At the bottom, a table displays sample data.

Order Line ID	# of Order Lines	Order ID	# of Orders	Order Priority	Customer
6023	6023	88028	88028	Not Specified	2211
179	179	87946	87946	Low	67

OAC – Data Flows Steps

- ✓ Different type of steps to work with different data sets including Machine Learning Steps.



OAC – Data Flows

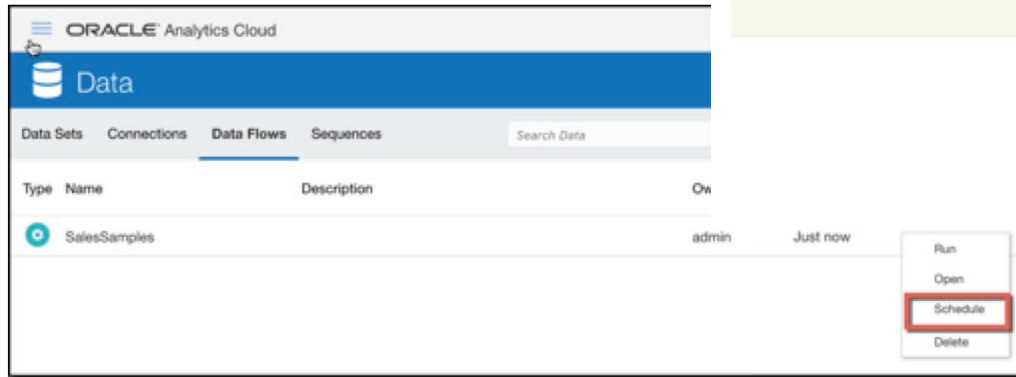
- ✓ At the end you can save your data, creating a new Data Set.

The screenshot shows the Oracle APEX Data Flow Designer interface. The title bar reads "EmployeeDepandJobs - Data Flow" with buttons for "Execute Data Flow" and "Save". On the left is a "Data Flow Steps" sidebar with icons for "Add Data", "Join", "Merge Rows", "Filter", "Aggregate", "Save Data Set", "Create Essbase Cube", "Add Columns", "Select Columns", "Rename Columns", and "Merge Columns". The main workspace displays a data flow diagram: three input steps labeled "DEPARTM...", "EMPLOYEE...", and "JOBS" are connected to a "Join" step. This "Join" step is then connected to another "Join" step, which leads to a "Select Columns" step, followed by an "Aggregate" step, and finally a "Save Data" step. Below the diagram, the "Add Data - DEPARTMENTS" section shows a table for the "DEPARTMENTS" data set. The table has columns for "DEPARTMENT_ID", "DEPARTMENT_NAME", "LOCATION_ID", and "MANAGER_ID".

DEPARTMENT_ID	DEPARTMENT_NAME	LOCATION_ID	MANAGER_ID
10	Administration	1700	200
20	Marketing	1800	201

OAC – Data Flows and Sequences Scheduling

- ✓ Data Flows can be scheduled to run daily, weekly or monthly.



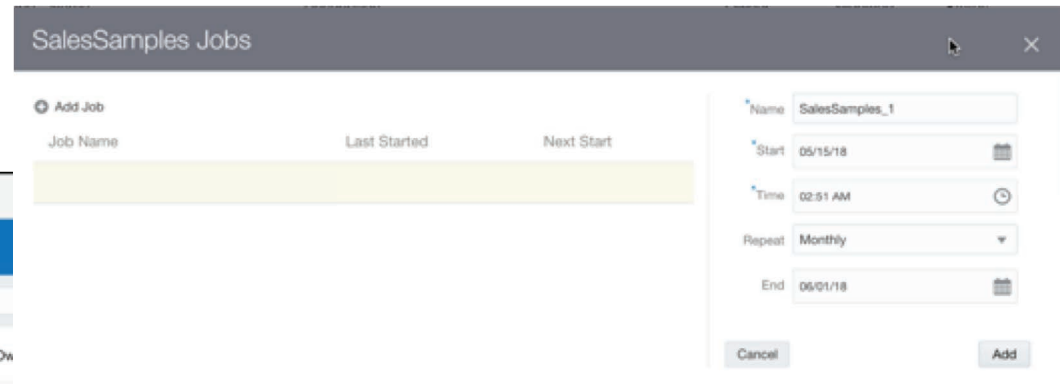
ORACLE Analytics Cloud

Data

Data Sets Connections **Data Flows** Sequences Search Data

Type	Name	Description	Owner	Created
Data Flow	SalesSamples		admin	Just now

Run
Open
Schedule
Delete



SalesSamples Jobs

+ Add Job

Job Name	Last Started	Next Start
----------	--------------	------------

Name SalesSamples_1

Start 05/15/18

Time 02:51 AM

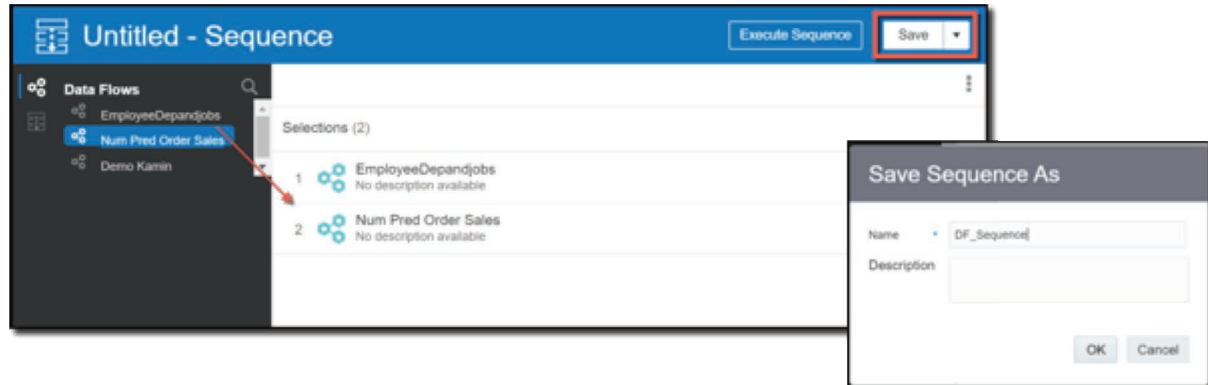
Repeat Monthly

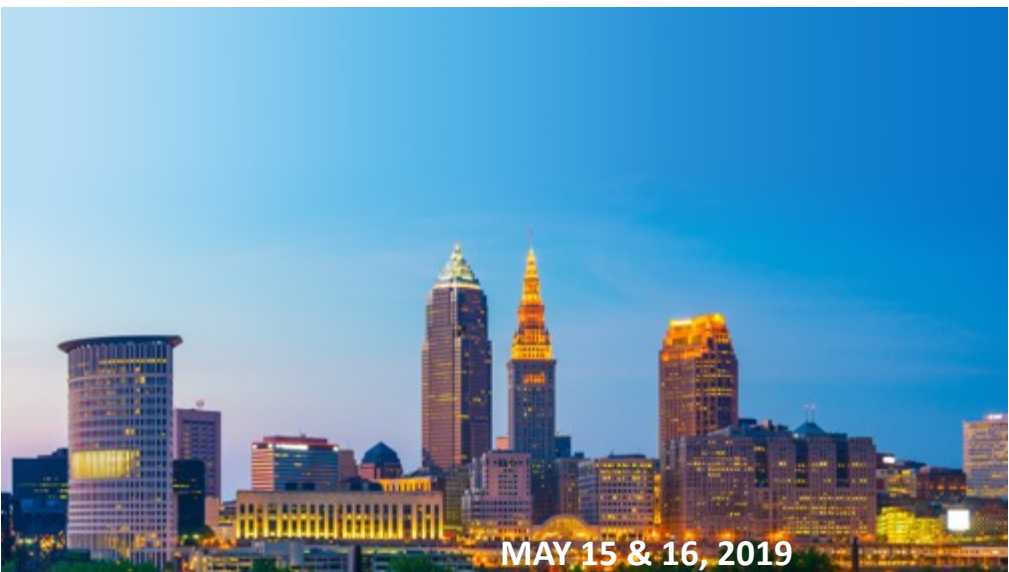
End 06/01/18

Cancel Add

OAC – Sequences

- ✓ Sequences chain data flows executions
- ✓ Add the Data Flows into the right Canvas
- ✓ The Data flows order can be changed





Considerations

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Considerations

- ✓ OAC is a complete and unified analytic Platform
- ✓ Offers integrated Analytic tools for Business Users (Data Visualization) and for IT.
- ✓ OAC is managed by the user.
- ✓ The new Autonomous OAC offering the same features but the administration is managed by Oracle
- ✓ Three different options according with your requirements: Standalone, Lake and Enterprise Editions.



Q&A

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