



# New Features in Data Visualization Desktop 4

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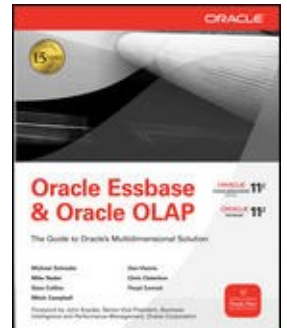
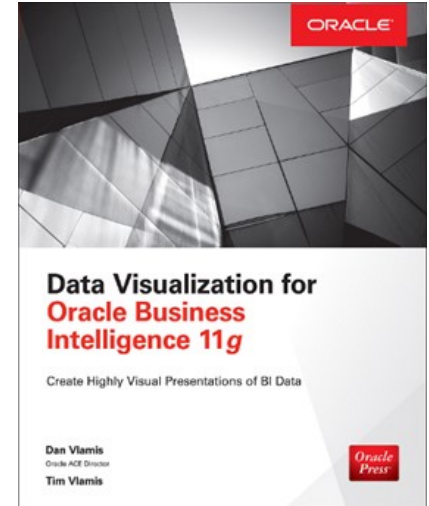
# VlamiS Software Solutions

- 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](http://www.vlamiS.com) (blog, papers, newsletters, services)
- Co-authors of book “Data Visualization for OBI”
- Co-author of book “Oracle Essbase & Oracle OLAP”
- Oracle University Partner
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Foundation Suite 11g





# OBIEE, BICS, DVD, OAC 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](#)
- 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](#)
- 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](#)
- DVD 3.0 (June 2017)
  - Webcast Aug 29, 2017 [DVD 3.0 New Features](#)
  - New visualizations
  - Additional data sources
  - Enhanced data prep and updated data flows
- DVD 4 (October 2017)
  - Webcast Nov 9, 2017 [DVD 4 New Features](#)
  - New Home Page
  - New Visualization control experience
  - New Column controls for date/time, auto-binning
  - New narrate experience
  - New data flow steps, including create Essbase cube step
  - Machine learning
- OAC 4 (?)
  - Webcast Dec 12, 2017 [OAC 4 New Features](#)

All listed on website at <http://www.vlami.com/obiwebinars/>



# Use Questions or Chat or Questions to communicate

Oracle Business Intelligence x +

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## Oracle Business Intelligence Webinars

### 2017

- DVD 3.0
  - Webcast August 29: DVD 3.0 New Features
    - New visualizations
    - Additional data sources
    - Enhanced data prep
    - Updated data flows

### 2016

- 12.2.2 (October 2016 Release)
  - Webcast November 22: 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
- 12.2.1.1 (June 2016 Release)
  - BIWA TechCast July 19: Oracle BI 12.2.1.1 New Features
    - New Visualizations in VA

**Oracle Business Intelligence Webinars**

File Options View Help

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Audience view 100%

Sharing Stopped No one sees your screen

Show Screen Stop Showing Screen Give Keyboard & Mouse Change Presenter

Start Recording 5.9 GB remaining Settings

Audio View audio options

**Questions**

Show Answered Questions

X	Question	Asker

Send Privately Send to All

**Chat**

Me (to All - Entire Audience): 12:53 PM: Test chat here

All - Entire Audience Send

Seeing is Believing Webinar ID: 641-563-843 GoToWebinar

# DV V4 Functional New Features Overview

## A. Data Visualizations

1. New Home Page + UI Refresh
  - a) \*Drag spreadsheet to home page, canvas
2. New Viz control experience
  - a) \*Properties Pane,
  - b) \*Copy/Paste/Duplicate,
  - c) \*Pin Filter to all Canvases
  - d) \*Data Actions
3. New Column Controls
  - a) \*Date/Time level set & switch
  - b) Show metric as a percentage
  - c) \*Auto-Binning metrics used as Categories
  - d) Automatic Number Type
4. New Project control Features
  - a) Rename Connection or Data Source
  - b) Unrelated data sources in a project
  - c) Data Limit Truncation Warnings
  - d) Simplified Project Permissions
5. New Narrate experience
6. Improved Sharing

## B. Data-flows

7. New Steps
  - a) Merge Rows Step (Set Operator)
  - b) Create Essbase Cube Step
  - c) \*Binning Step
  - d) \*Grouping Step new UI
  - e) Cumulative Aggregate Step
  - f) \*Filter Step
8. Sequences for Data-flows
9. Customize Name/Description of a step
10. Data-flows Scheduling

## C. New Data Sources

11. Oracle Talent Management Cloud
12. Oracle DWCS
13. Oracle BDCS-CE

## D. BI Publisher in OAC

14. BIP Ability to consume XSAs

## E. Essbase Specific new features

## F. Machine Learning

15. \*ML Attributes Explain Feature
16. ML Train & Apply OOB Models
  - a) Sentiment
  - b) Numeric prediction
  - c) Multi Classifier
  - d) Clustering
  - e) Binary Classifier
17. ML Custom Scripts upload & Apply
18. ML Model Scenarios

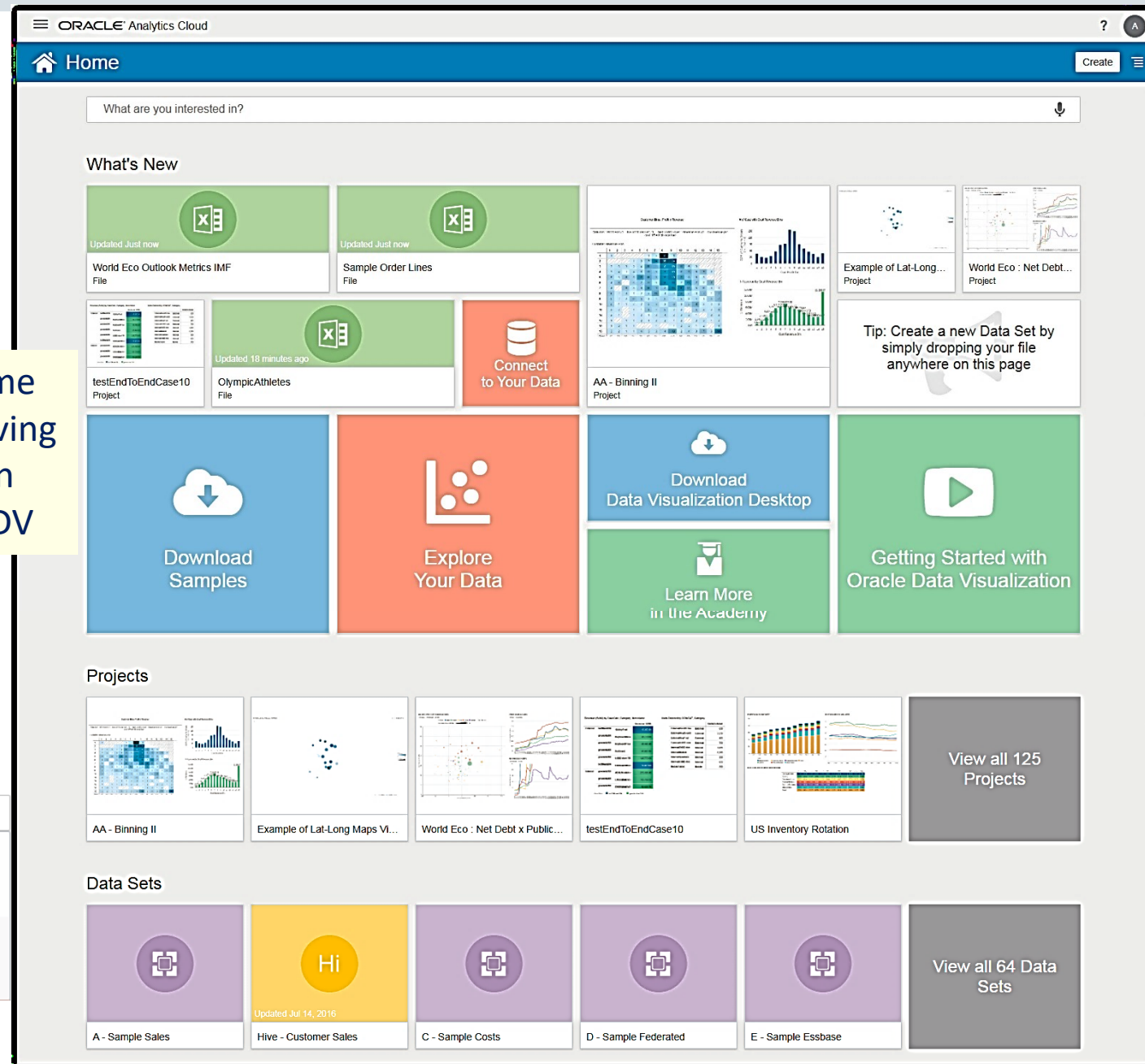
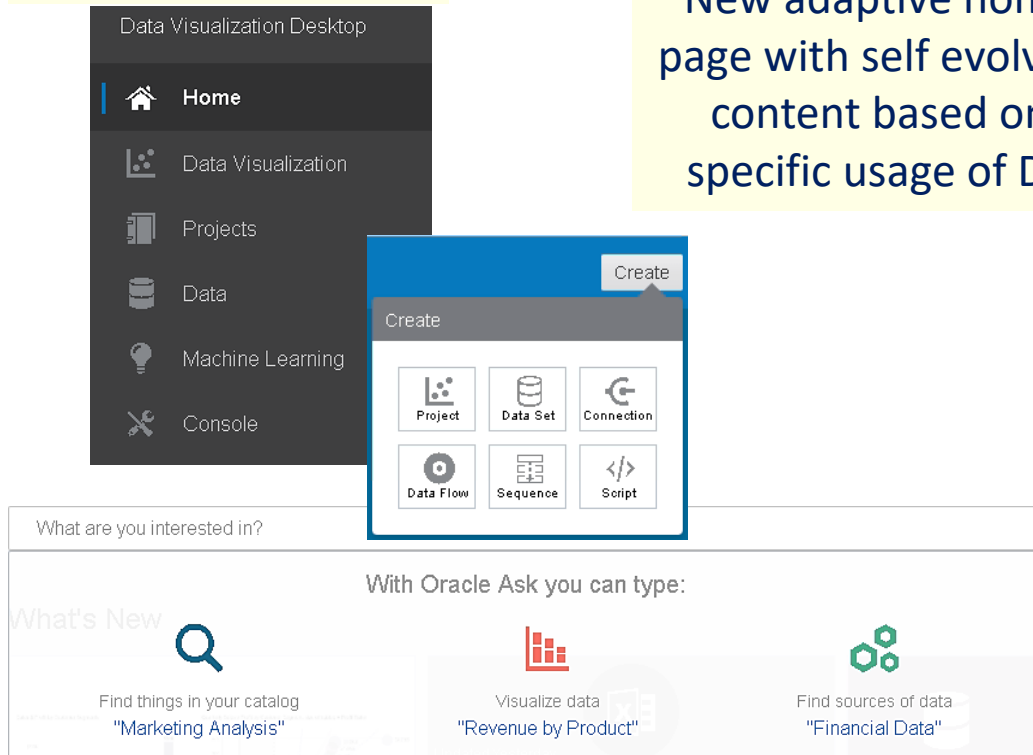
## Admin / Console

19. Content Embedding
20. Data Replication
21. Emails Deliveries
22. Map-viewer Console
23. Import / export TCM models
24. Public API Support

# 1 - New Home Page + UI Refresh

Full, more end-user intuitive Alta-based UI refresh

New adaptive home page with self evolving content based on specific usage of DV





## 2 – New Viz Controls : Properties Pane for Columns and Viz

**Data Elements**

- Product Container
- Product Name
- Profit
- Quantity Ordered
- Sales
- Discount**
- Gross Unit Price
- Shipping Cost
- Ship Mode
- Ship Date
- Order Date
- {Row Count}
- Sample States
- My Calculations
- Value Labels

**Discount**

General

Name	Discount
TreatAs	Measure
Data Type	Double
Aggregation	Sum

Use properties pane to edit default properties of any object (Type, Agg rule, format, level...)

**Sales & Profit by Customer...**

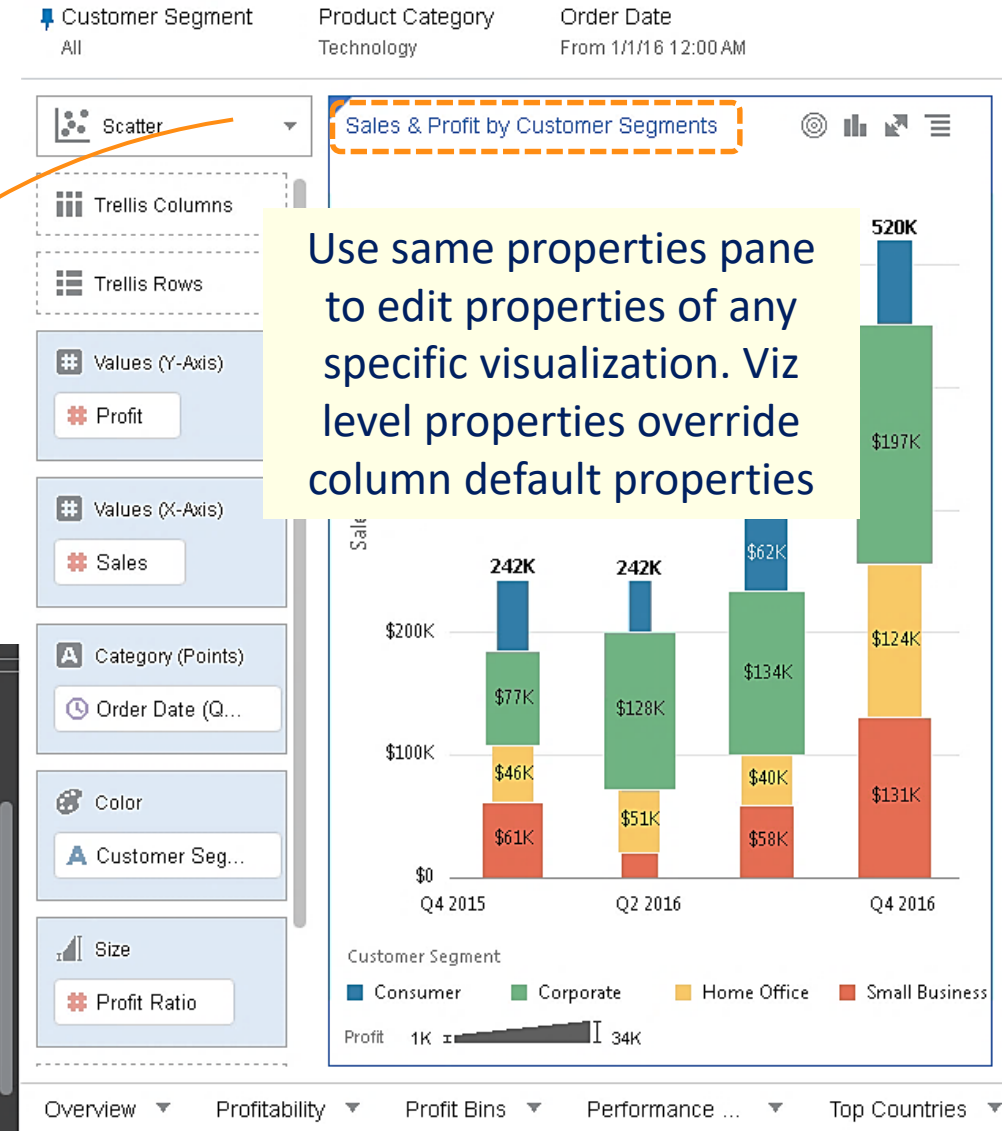
General

Title Custom

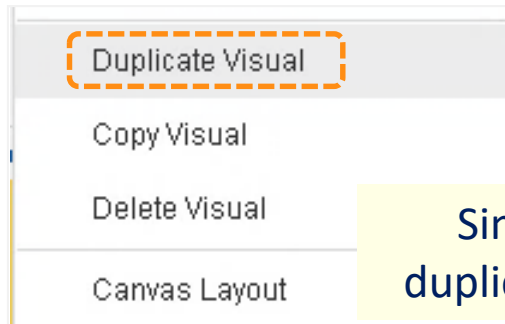
Sales & Profit by Customer Se

Type Stacked Bar

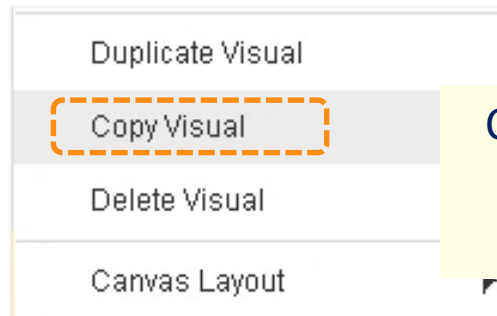
Legend Auto



## 2 – Cross Canvas Copy/Paste, Viz Duplication Pin/Un-pin filter to all Canvases



Single Click  
duplicate-visuals



Copy paste any visual  
from one canvas to  
another canvas

Pin or un-pin single filter for whole  
project or for a single canvas





## 2 - Data Actions

**1**

- Project Properties
- Canvas Properties
- Data Actions**
- Synchronize Visualization
- Refresh Data
- Refresh Data Sets
- Reset Colors
- Clear Canvas
- Create New Project
- Revert to Saved
- Debug

**2**

Project Properties

Actions

▲ Navigate to details by Office

Name: Navigate to details by Office

Type: Canvas

Anchor To: Product Category

Project: This Project

Canvas: Performance by Office

Pass Values: All

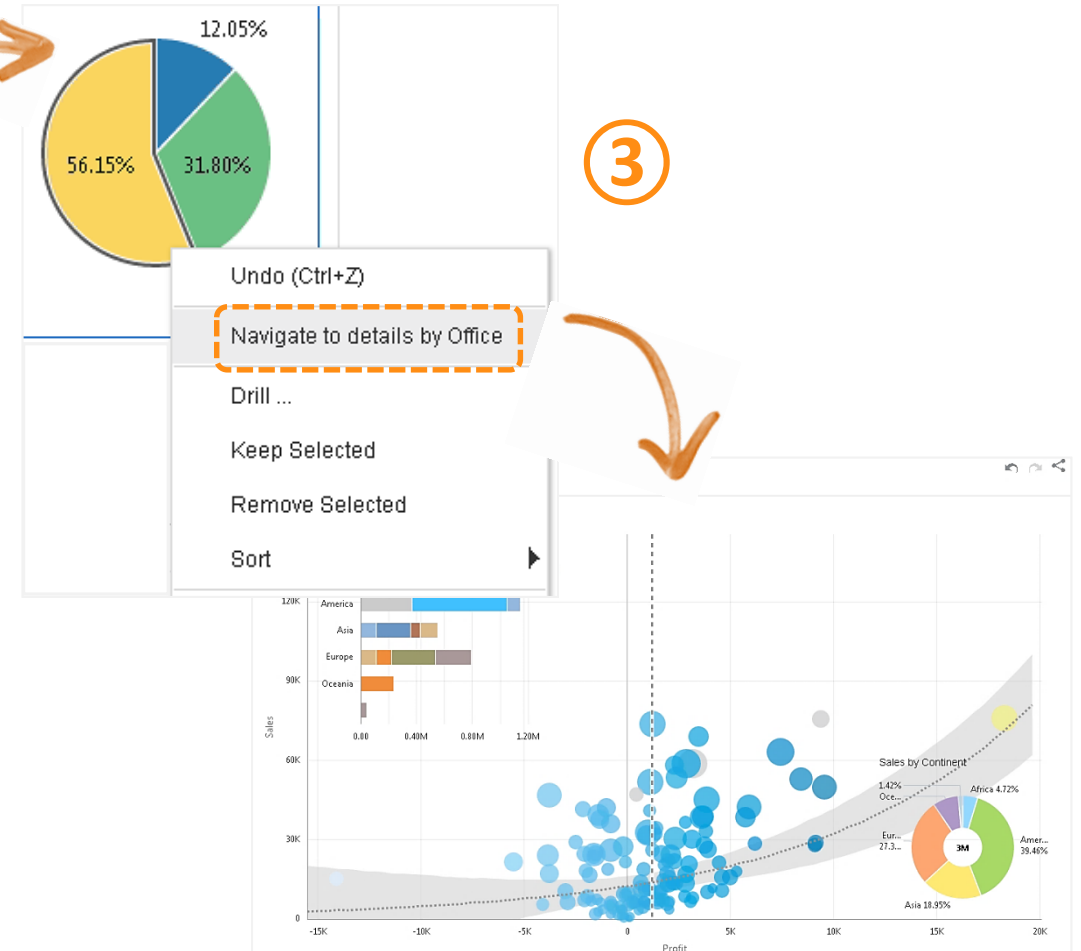
URL

- ✓ Canvas

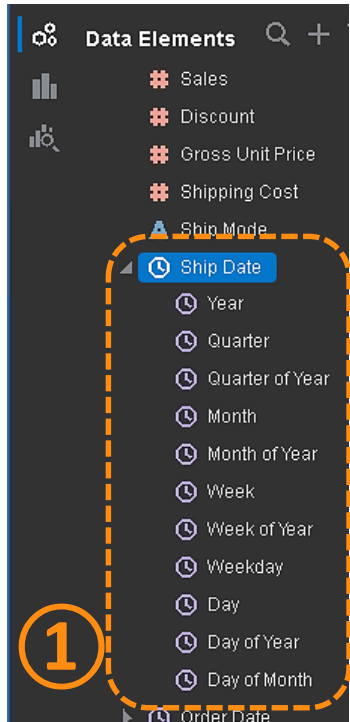
OK Cancel

A column can navigate to URLs or canvas pages passing contextual values

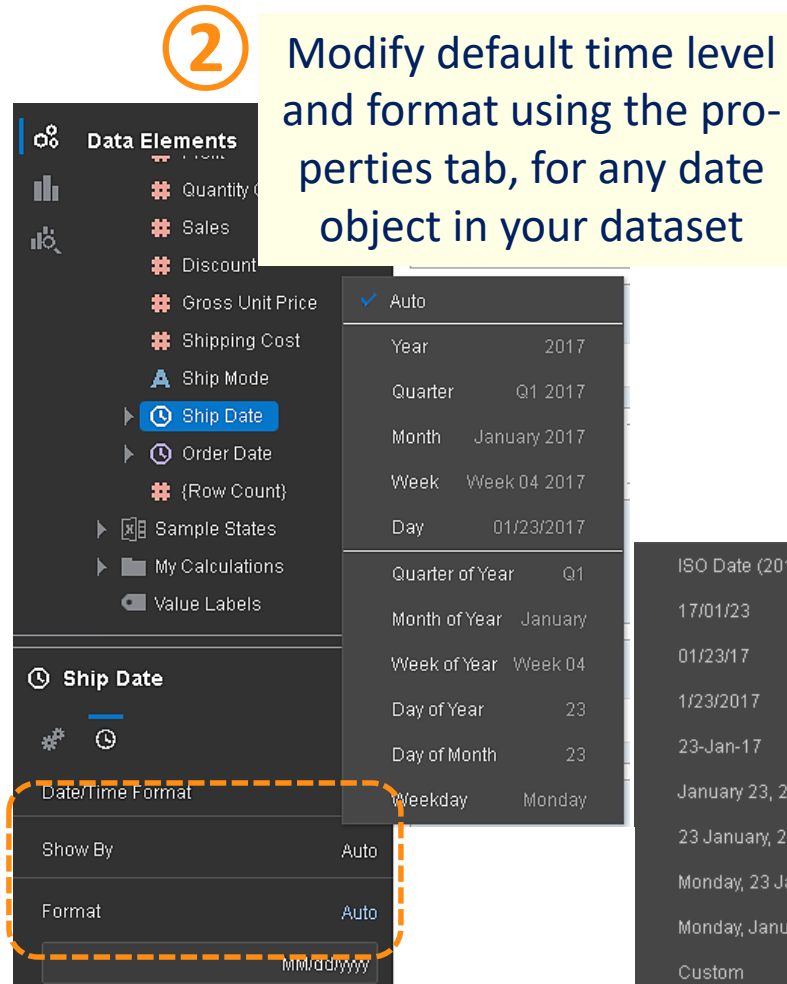
Configure multiple Navigation targets for each column object in your project.



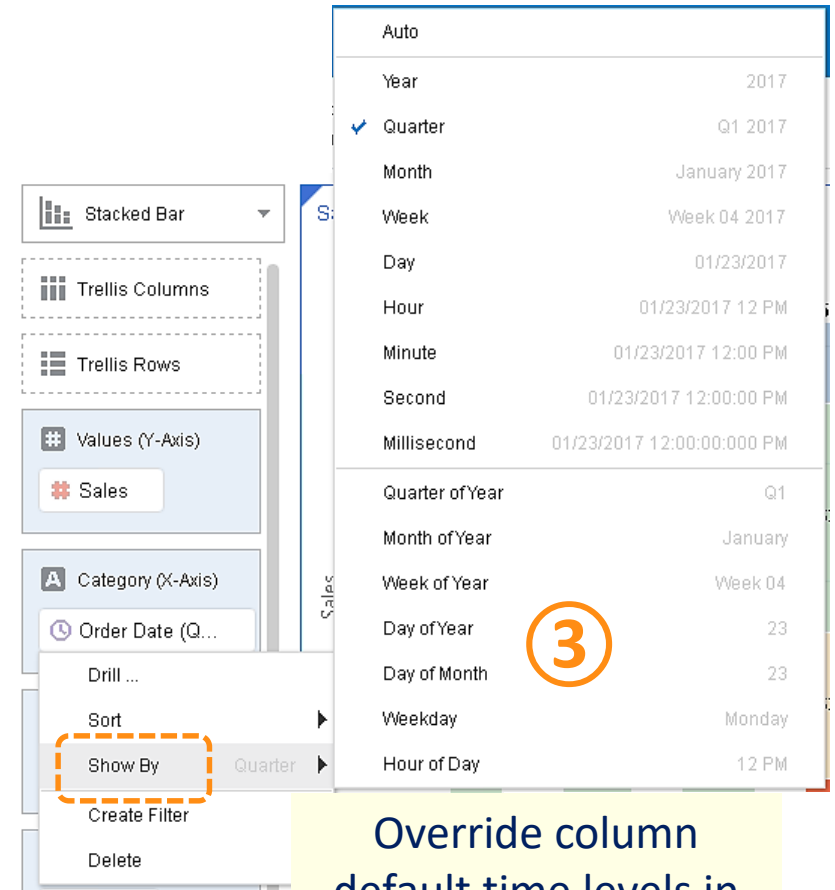
# 3 – New Columns Control : Date/Time level set & switch



Time level options show by default for any single time object in your data-set.

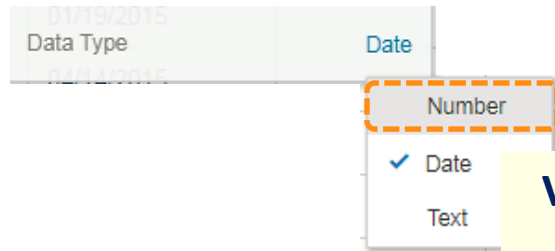


Modify default time level and format using the properties tab, for any date object in your dataset

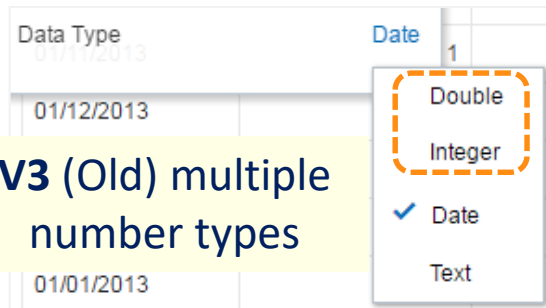


Override column default time levels in each visualization

# 3 – New Columns Control : Show as percent of column, Automatic Number Type



**V4** single Number data Type



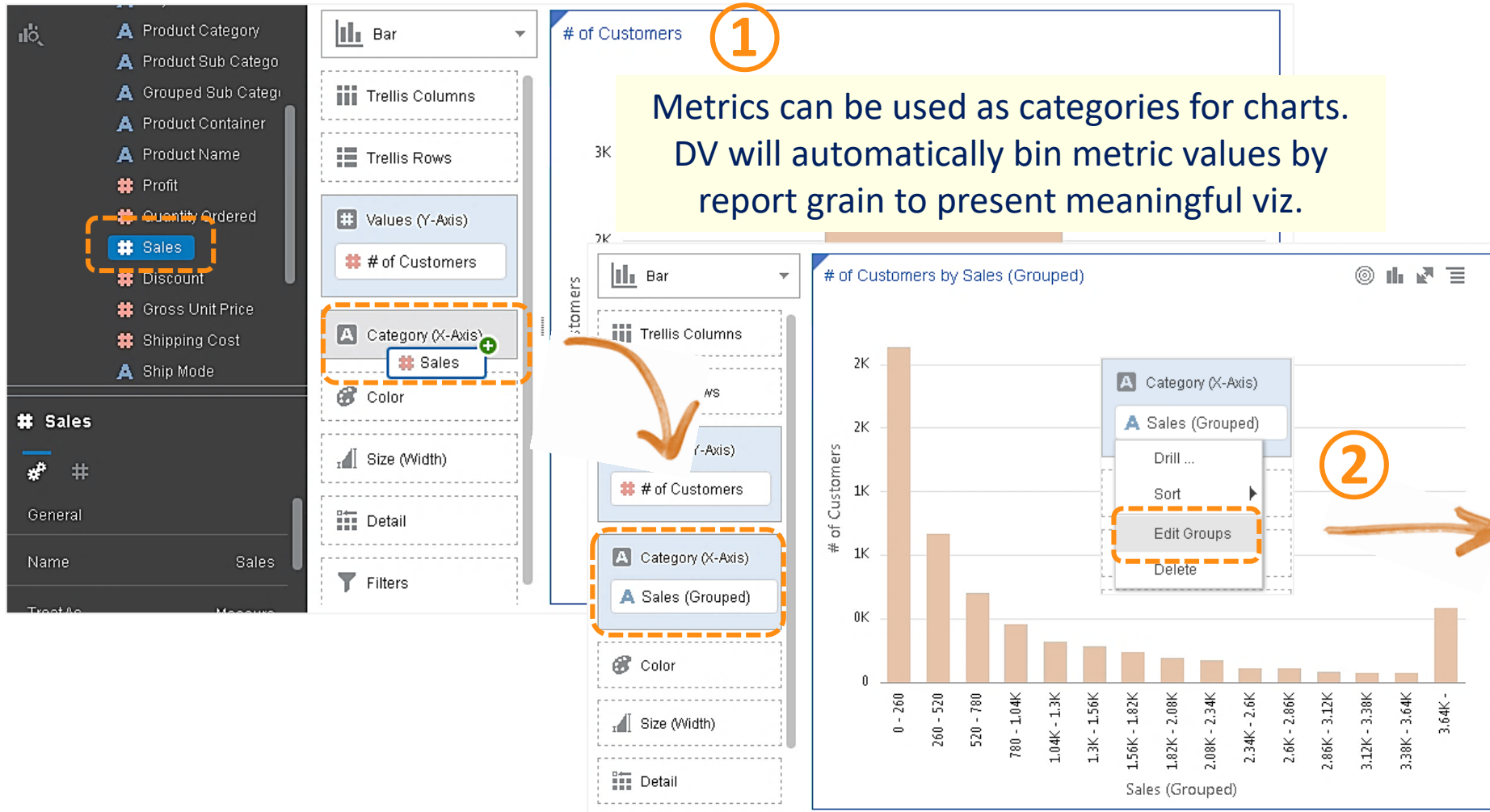
**V3 (Old)** multiple number types

The screenshot shows the 'Key Metrics by Product Category' pivot table and its configuration panels. The pivot table has columns for 'Customer Segment', 'Continent', and 'Product Category', all set to 'All'. The table shows the number of order lines for different product categories. The configuration panels on the left show the 'Columns' and 'Rows' sections, with 'Product Category' selected in the 'Columns' section. The 'Values' section shows '# of Order Lines' selected. The 'Display As' dropdown is open, showing 'Value' selected and 'Percent Of' highlighted with an orange dashed box. The 'Number Format' dropdown is also open, showing 'Percent Of' selected and highlighted with an orange dashed box. The 'Group' dropdown is open, showing 'All Values' selected and highlighted with an orange dashed box.

	# of Order Lines
Furniture	1,884
Office Supplies	4,831
Technology	2,285
Total	9,000

Single click show values as percent of Rows/Columns/Subtotals in Pivot Tables

# 3 – New Columns Control : Auto-Binning of metrics when used as Categories



User can easily override number of bins, group by clause by a right click

# of Customers by Sales (...)

Values

Data Values Off

# of Customers

Sales (Grouped)

Level of Detail Auto

Groups 15

## 4 – New Projects control features : Data Set / Connections renaming

The diagram illustrates the process of renaming a data set and how the new name is propagated to dependent objects. It is divided into two main sections by a large orange arrow pointing from left to right.

**Left Section (Initial State):**

- Data Panel:** Shows a list of data sets. The "Sample Order Lines" data set is highlighted with an orange dashed box. A right-click context menu is open over it, with the "Edit" option selected.
- Data Elements Panel:** Shows the "Data Elements" for the "Sample Order Lines" data set. The data set name "Sample Order Lines" is highlighted with an orange dashed box.

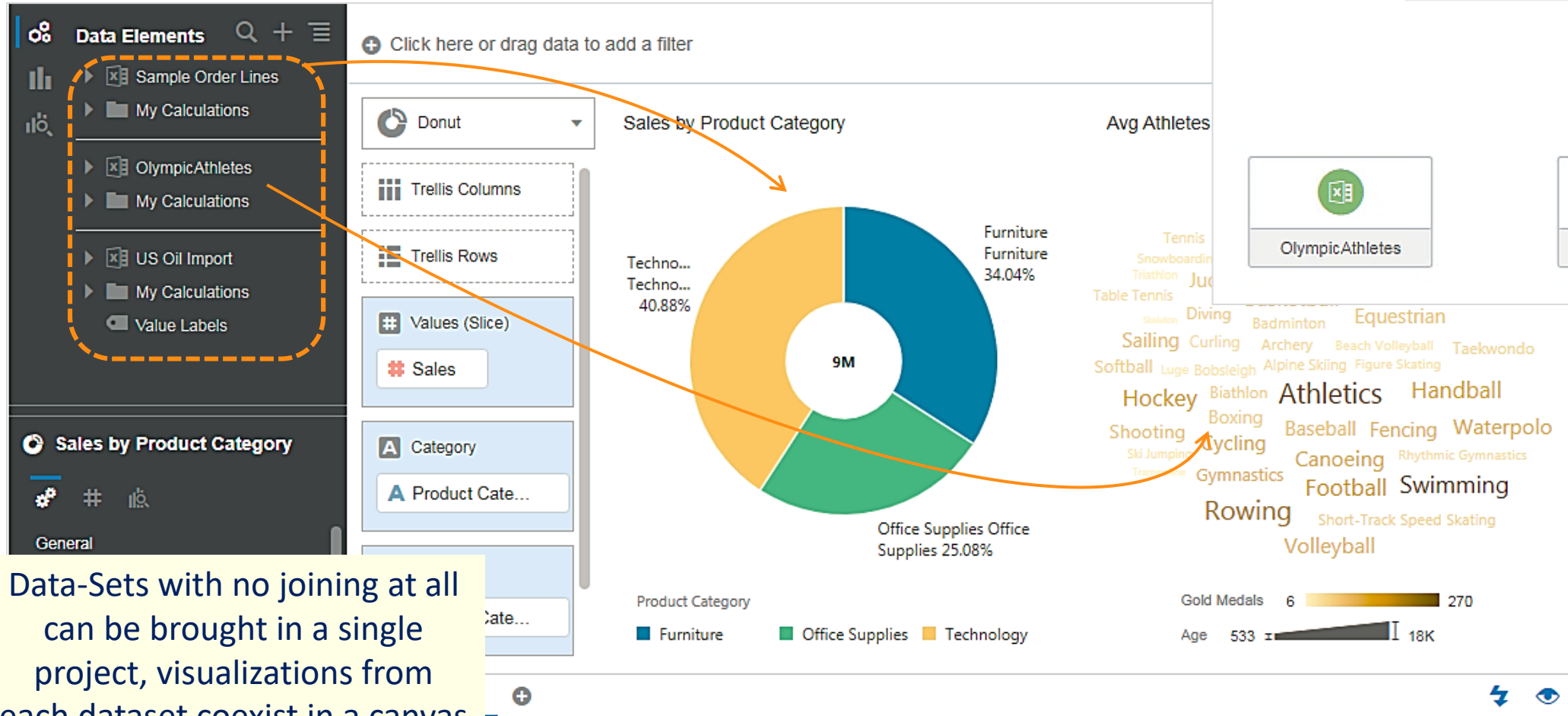
**Right Section (Renamed State):**

- Data Panel:** The data set is now named "Sample Order Lines renamed" and is highlighted with an orange dashed box.
- Data Elements Panel:** The "Data Elements" for the renamed data set are shown. The data set name "Sample Order Lines renamed" is highlighted with an orange dashed box.

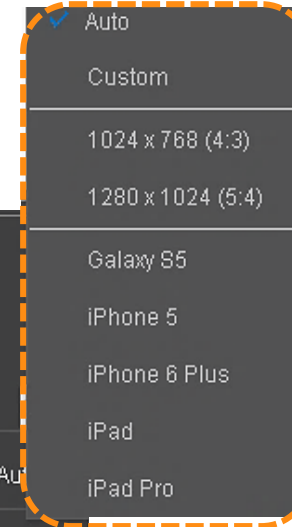
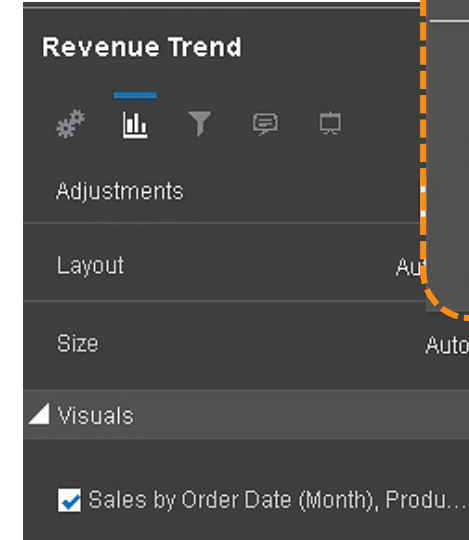
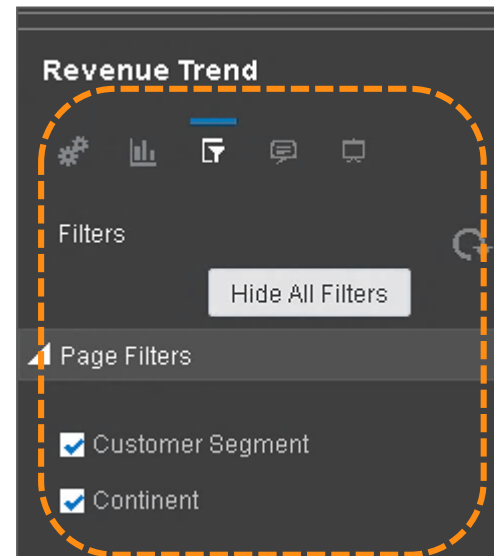
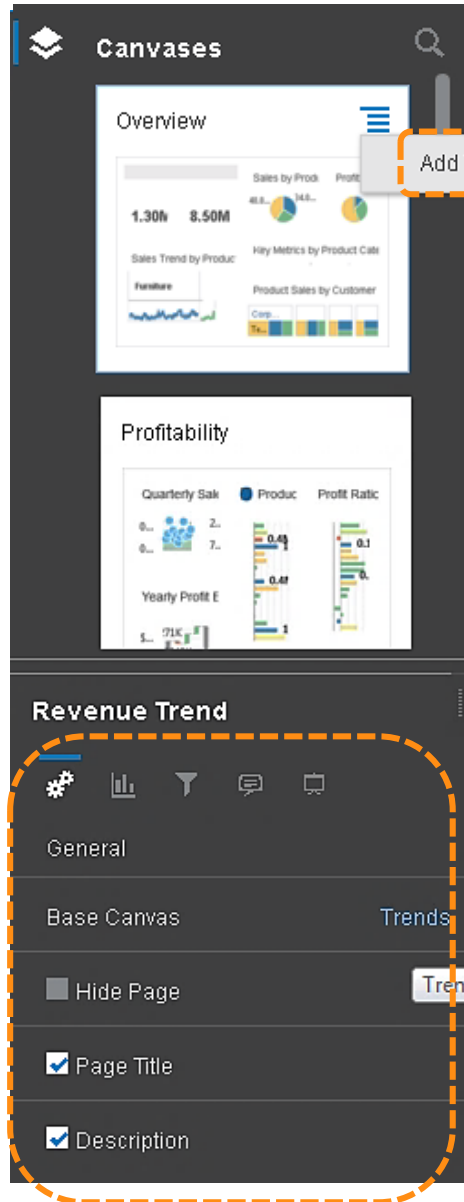
**Text Boxes:**

- Existing data-sets or connections used in projects can be renamed via Edit right click menu** (Yellow box, bottom left).
- New edited name is automatically propagated in dependent objects** (Yellow box, bottom right).

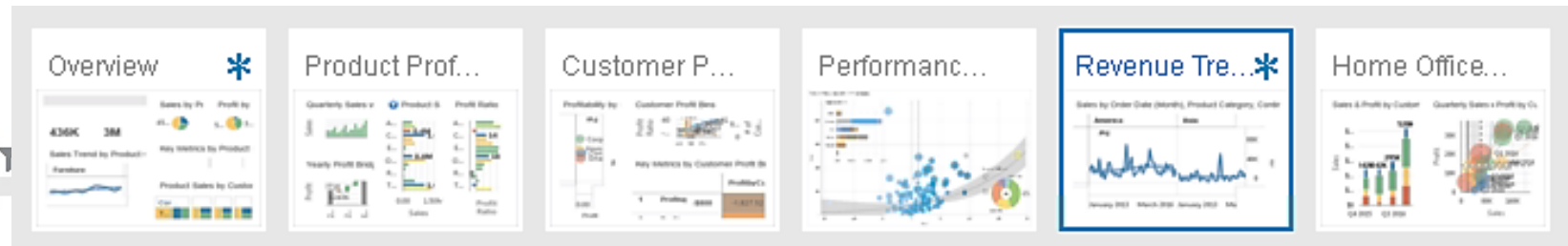
# 4 – New Projects control features : Unrelated data sources in a project



# 5 – New Narrate Experience



Enhanced Story-telling /  
Narrate experience with  
deeper control over  
user annotations and  
rendering formats

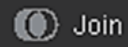




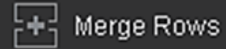
## Data Flow Steps



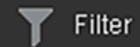
Add Data



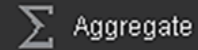
Join



Merge Rows



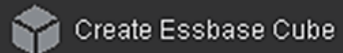
Filter



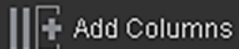
Aggregate



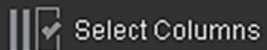
Save Data Set



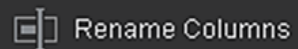
Create Essbase Cube



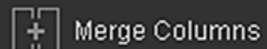
Add Columns



Select Columns



Rename Columns



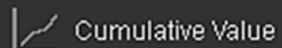
Merge Columns



Bin



Group



Cumulative Value

# 7 – Data-flows : New Merge-rows step (union), enhanced filtering



### Filter

Order Priority High, Low	Customer Segment Home Office, Small Business	Profit ≥ 150
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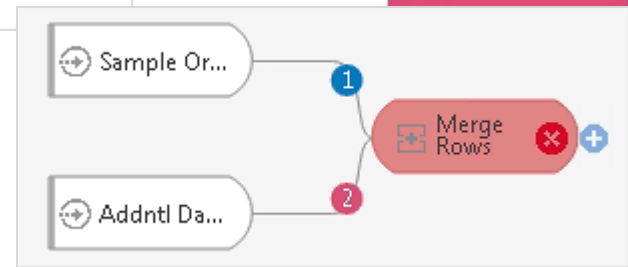
Exclusions (2/4)

Consumer	Home Office
Corporate	Small Business

## Merge Rows

- Keep
- ☒ All rows from Input 1 and Input 2 (Union All)
  - ☐ Unique rows from Input 1 and Input 2 (Union)
  - ☐ Rows common to Input 1 and Input 2 (Intersect)
  - ☐ Rows unique to Input 1 (Except)
  - ☐ Rows unique to Input 2 (Except)

Merge (Union) rows from multiple iso-structured datasources

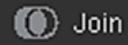


New canvas-like experience for filters node in Data-flows

## Data Flow Steps



Add Data



Join



Merge Rows



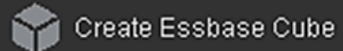
Filter



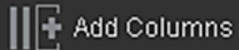
Aggregate



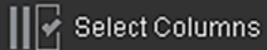
Save Data Set



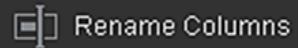
Create Essbase Cube



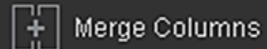
Add Columns



Select Columns



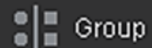
Rename Columns



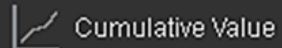
Merge Columns



Bin



Group



Cumulative Value

# 7 – Data-flows : New Create Essbase Cube Step

Data-flow creating aggregations cubes in Essbase

### Create Essbase Cube

Essbase Connection [Select Essbase Connection](#)

Application Name

Cube Name

Description

Automatic detect of metrics, attributes and hierarchies

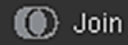
Essbase will identify columns as measures, dimensions, or attributes and create a cube.

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

## Data Flow Steps



Add Data



Join



Merge Rows



Filter



Aggregate



Save Data Set



Create Essbase Cube



Add Columns



Select Columns



Rename Columns



Merge Columns



Bin



Group



Cumulative Value

# 7 – Data-flows : New Cumulative Value Step

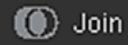
The screenshot displays the Data-flow interface with the following components:

- Top Bar:** A 'Sample Or...' button is connected to a 'Cumulative Value' button, which is highlighted with an orange dashed border.
- Aggregate Section:** A table with columns 'Function', 'Rows', and 'New column name'. The first row shows 'Sales' as the source, 'Moving Sum' as the function, '5' as the number of rows, and 'Sales Moving Sum' as the new column name. This section is also highlighted with an orange dashed border.
- Sort By Section:** A table with columns 'Sort Column' and 'Sort Column'. The first row shows 'Customer ID' as the sort column and 'A-Z' as the sort order. This section is highlighted with an orange dashed border.
- Restart for each Section:** A table with columns 'Restart Column'. The first row shows 'Customer Segment' as the restart column. This section is highlighted with an orange dashed border.
- Dropdown Menu:** A dropdown menu is open, showing options: 'Moving Average', 'Moving Sum' (highlighted), 'Running Sum', 'Running Count', 'Running Min', and 'Running Max'.
- Annotation:** A yellow box on the right contains the text: 'A new node to create rolling or moving aggregates in Data-flows'.

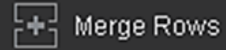
## Data Flow Steps



Add Data



Join



Merge Rows



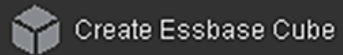
Filter



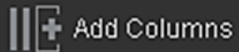
Aggregate



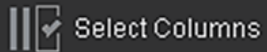
Save Data Set



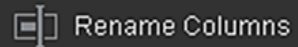
Create Essbase Cube



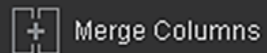
Add Columns



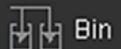
Select Columns



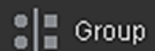
Rename Columns



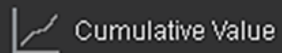
Merge Columns



Bin



Group



Cumulative Value

# 7 – Data-flows : New Create Group Step

New wizard-UI node for grouping dimension members values in Data-flows

**Group**

+ Group Customer Segment Name New Group ☐ Include Others

Group 1 Consumer

Search

✓ Consumer

Corporate

Home Office

Small Business

Add all Remove all

Selections (1/4)

Consumer

Group 1 (1/4)

Corporate

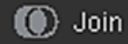
Home Office

Small Business

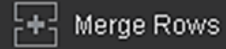
## Data Flow Steps



Add Data



Join



Merge Rows



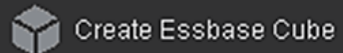
Filter



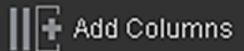
Aggregate



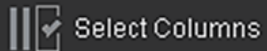
Save Data Set



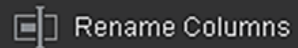
Create Essbase Cube



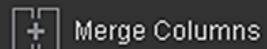
Add Columns



Select Columns



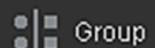
Rename Columns



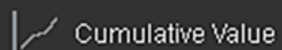
Merge Columns



Bin



Group



Cumulative Value

# 7 – Data-flows : New Binning Step

New wizard-UI node to bin granular data in Data-flows

Bin

Bin Sales

New element name Bin Name

Range List

Bin	Minimum	to	Maximum
Bin1	752		
Bin2	> 752		2,401
Bin3	> 2401		3,602
Bin4	> 3602		

Bin Sales

New element name Bin Name

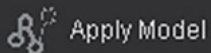
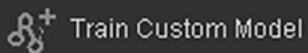
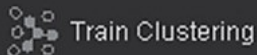
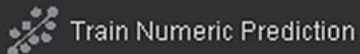
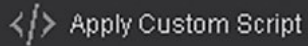
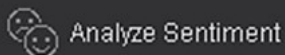
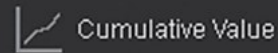
Number of bins 4

Method Manual

Range Histogram

Customize bin width manually or by moving sliders

## Data Flow Steps



# 7 – Data-flows : New Forecast and Sentiment Analysis Steps

Extract Sentiment from  
text based columns

Sample Or... — Analyze Sentiment

### Analyze Sentiment

▲ Outputs

Create	Output	Column Name
<input checked="" type="checkbox"/>	emotion	emotion

▲ Parameters

- \* Text To Analyze Customer Name

Sample Or... — Time Series Forecast

### Time Series Forecast

▲ Outputs

Create	Output	Column Name
<input checked="" type="checkbox"/>	forecasted	forecasted

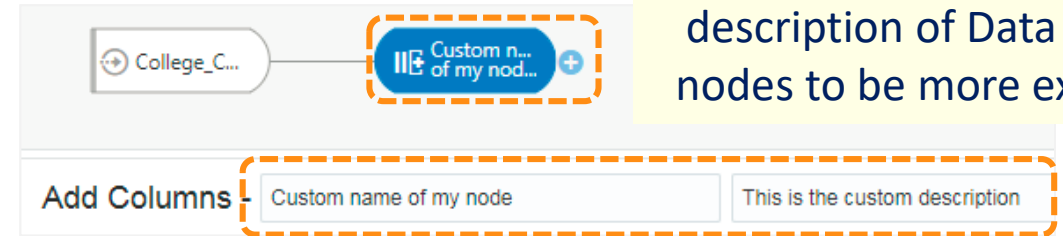
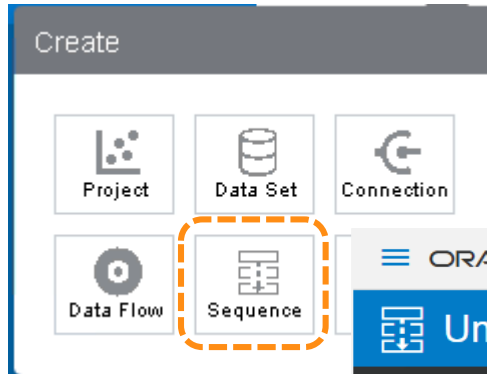
▲ Parameters

- \* Target Select a column
- \* Time Order Date
- \* Periods 14

Forecast date-based  
metric values

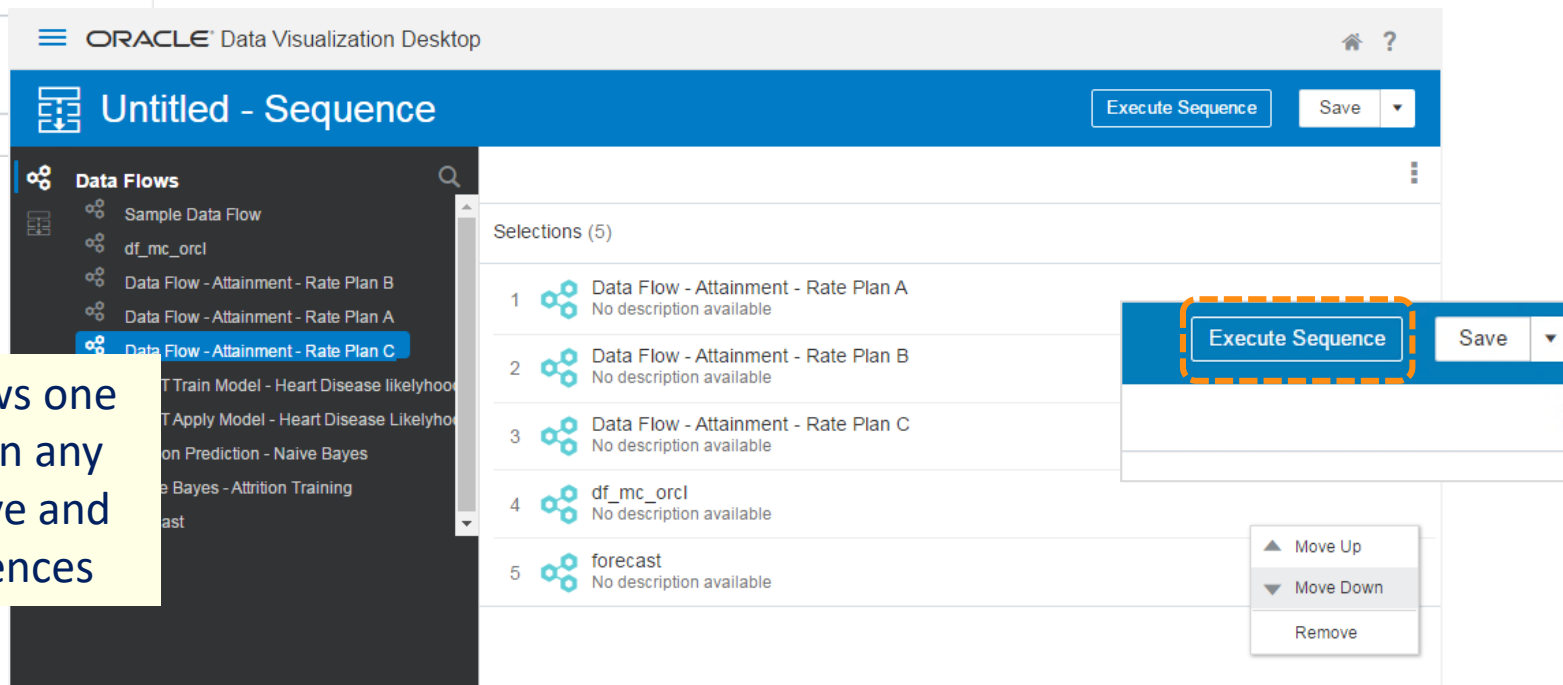
# 8 & 9 – Data-flows Sequences

## Data-flows step custom renaming



Customize name and description of Data Flow nodes to be more explicit












Chain Data-flows one after another in any sequences. Save and execute sequences



























# 11,12,13,14 – New Data-source Types

Select Connection Type

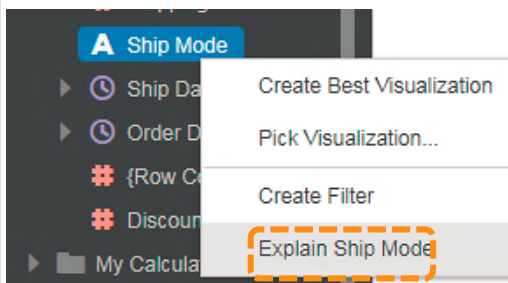
	Oracle Applications
	Oracle Big Data Cloud (Beta)
	Oracle Data Warehouse Cloud (Beta)
	Oracle Database
	Oracle Content and Experience Cloud
	Oracle Essbase
	Oracle Service Cloud
	Oracle Talent Acquisition Cloud (Beta)
	Action Ingres
	Action Matrix
	Action Vector

	Amazon EMR
	Amazon Redshift
	Apache Drill
	Apache Hive
	Cassandra
	DB2
	Dropbox
	Google Analytics
	Google Cloud
	Google Drive
	Greenplum
	Hortonworks Hive

	HP Vertica
	IBM BigInsights Hive
	Impala
	Informix
	MapR Hive
	Microsoft Access
	MonetDB
	MongoDB
	MySQL
	Netezza
	Pivotal HD Hive
	PostgreSQL

	Presto
	Salesforce
	Spark
	SQL Server
	Sybase ASE
	Sybase IQ
	Teradata
	Teradata Aster
	Elasticsearch
	JDBC
	OData
	ODBC

# 15 – ML : Attribute Explain



## Explain Ship Mode

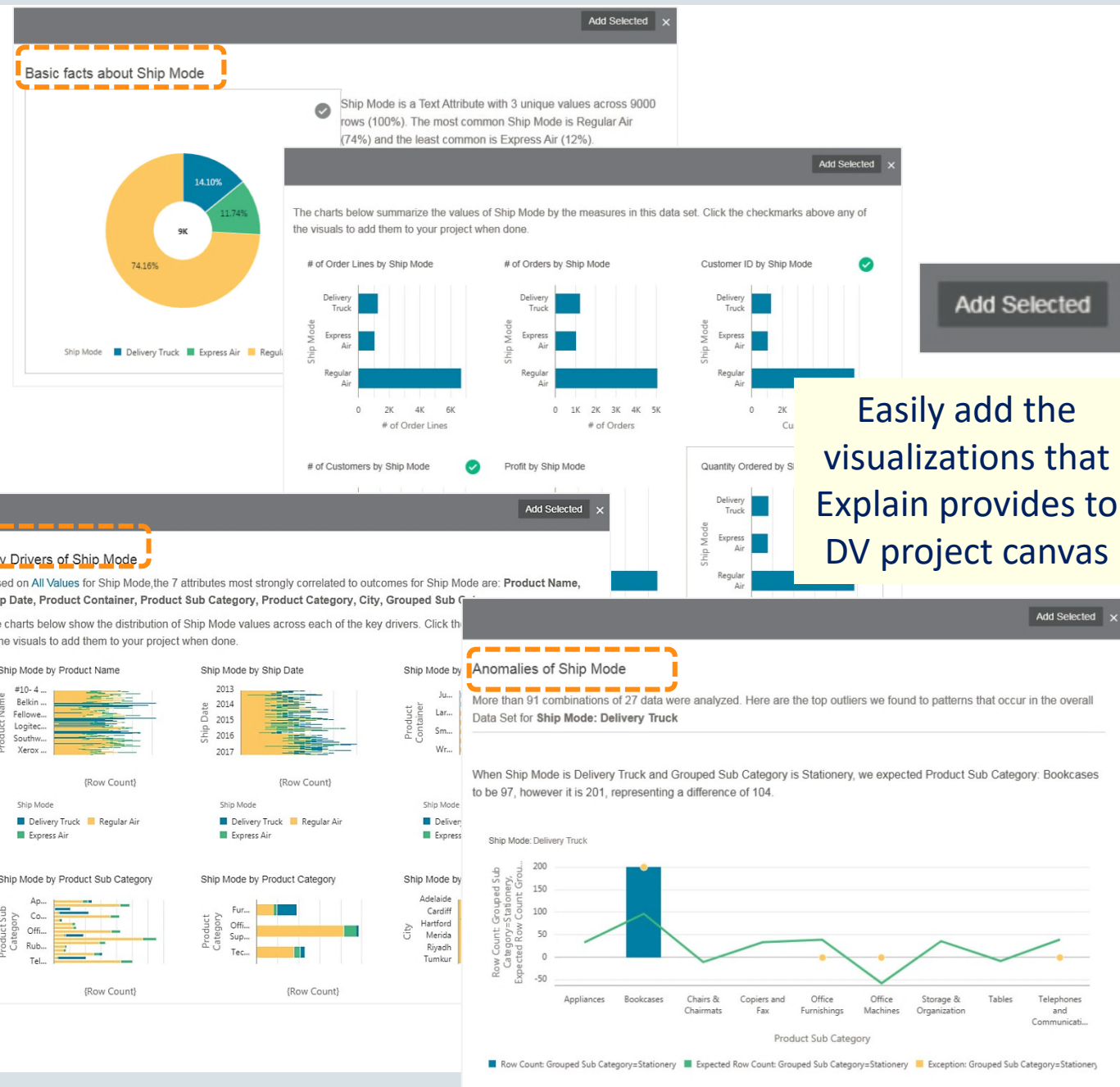
**Basic Facts about Ship Mode**  
What are the values of Ship Mode and how do they relate to each other?

**Key Drivers of Ship Mode**  
What elements in this data best explain the values of Ship Mode?

**Segments that Explain Ship Mode**  
What hidden groups in the data can predict outcomes for Ship Mode?

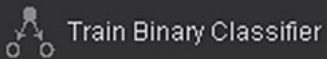
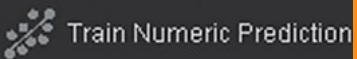
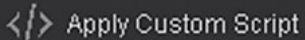
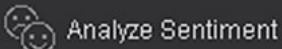
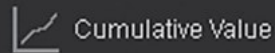
**Anomalies of Ship Mode**  
What groups in the data exhibit unexpected results for Ship Mode?

Use Explain right click option on any attribute column to Uncover insights and patterns about this column within the whole data set



Easily add the visualizations that Explain provides to DV project canvas

## Data Flow Steps



# 16 – ML : Train & Apply OOB Models

## Select Train Numeric Prediction Model Script

Elastic Net Linear Regression for model training

Linear Regression for model training

## Select Train Multi-Classification Model Script

Naive Bayes for Classification

Random Forest for model training

CART for model training

Neural Network for Classification

SVM for Classification

## Select Train Clustering Model Script

K-Means Clustering for model training

Hierarchical Clustering for model training

Train various predictive, classification, clustering models on your data.

Easily Apply trained models on production data in Data-flows

## Model - CART - Heart Disease likelihood Train Model

General Quality Related

F1 Value Model Accuracy 28%

Actual Values	Predicted Values				Total	Precision	Recall	F1
	Absent	Highly Likely	Less Likely	Others				
Absent	13	0	0	23	36 (60%)	81%	35%	0.49
Highly Likely	3	0	0	7	10 (17%)	0%	0%	0.00
Less Likely	0	0	0	10	10 (17%)	0%	0%	0.00
Others	0	0	0	4	4 (7%)	9%	98%	0.17
Total	16 (27%)	0 (0%)	0 (0%)	44 (73%)	60 (100%)			

Correct Prediction 0 100%  
Incorrect Prediction 0 100%

## Select Train Two-Classification Model Script

Naive Bayes for Classification

Random Forest for model training

CART for model training

Neural Network for Classification

Logistic Regression for model training

SVM for Classification

## - Naive Bayes - Attrition Train Model

Quality Related

Positive Label for Attrition Yes

Actual Values	Predicted Values		Total
	Yes	No	
Yes	17	30	47 (16%)
No	9	238	247 (84%)
Total	26 (9%)	268 (91%)	294 (100%)

F1 Value 0.46  
Model Accuracy 87%  
Precision 65%  
Recall 36%  
False Positive Rate 4%

Correct Prediction 0 100%  
Incorrect Prediction 0 100%

Easily visualize quality metrics for each trained model

# 17 – ML : Custom Script upload and Apply

DVD  
Only

Add Script

Name

Geo Location To Address (Python)

Change file

Description

This script translate longitude and latitude to address.

Preview of Geo Location To Address (Python)

Parameters

Inputs

Outputs

name

house\_number

street

settlement

OK

Cancel

Add Script

Name

R.TermFrequency

Change file

Description

Script Version: V1  
Description:  
This script term frequency analysis on textual data. It takes textual data as input, filters out stop words and identifies number of

Preview of R.TermFrequency

Parameters

Inputs

Outputs

RecID

RecTxt

TermFrequency

Upload any custom scripts (R, Python) to the system and train/apply them just like any OOB Models

Data Visualization Desktop

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Data

Machine Learning

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Machine Learning

Scripts

Models

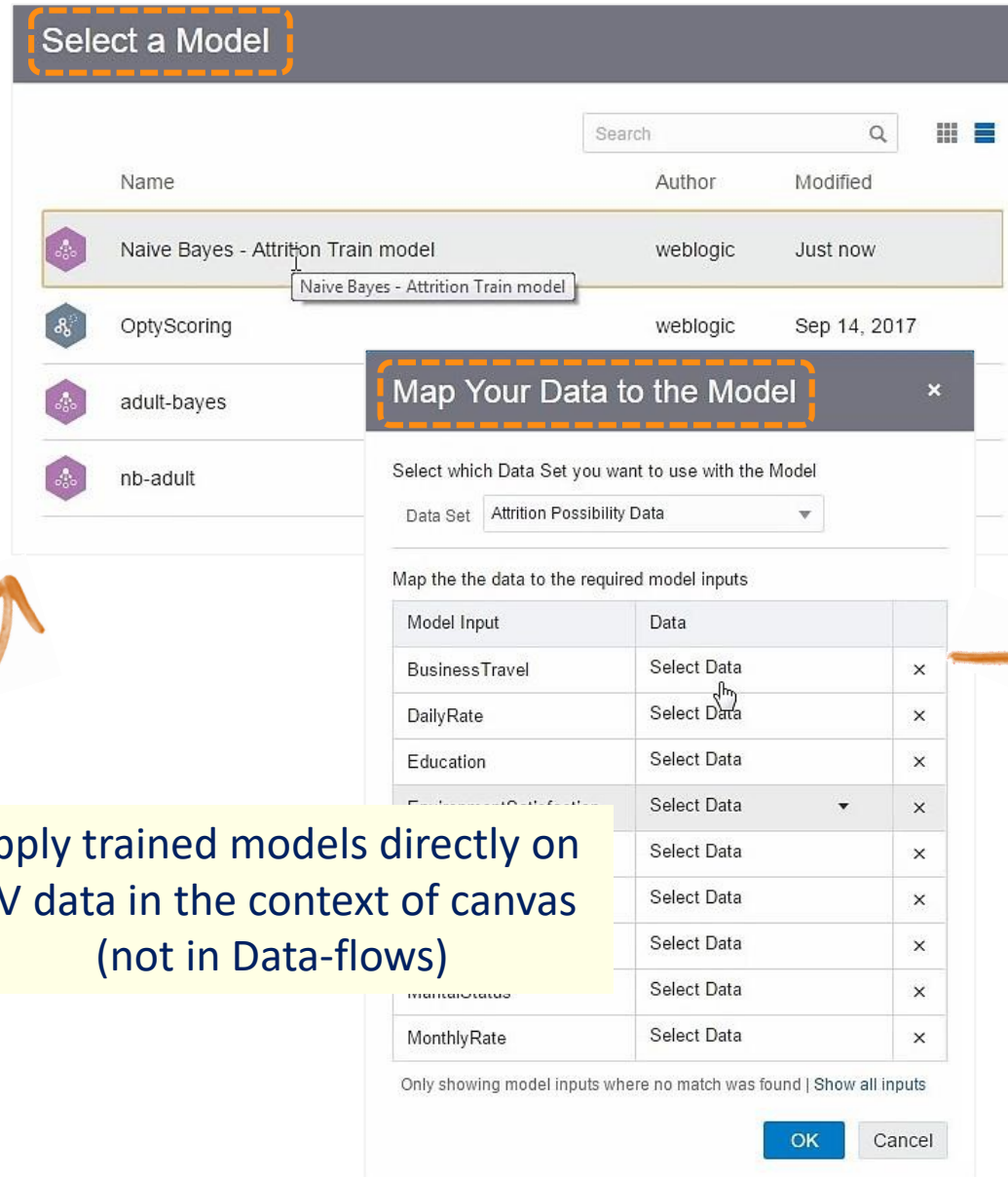
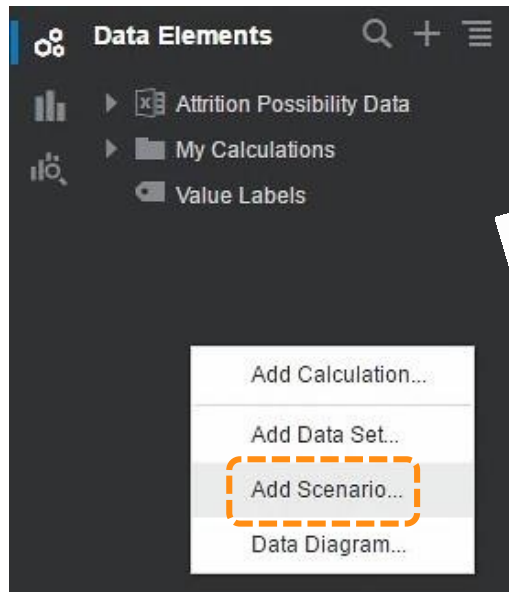
Updated Just now

Naive Bayes - Attrition Train M...

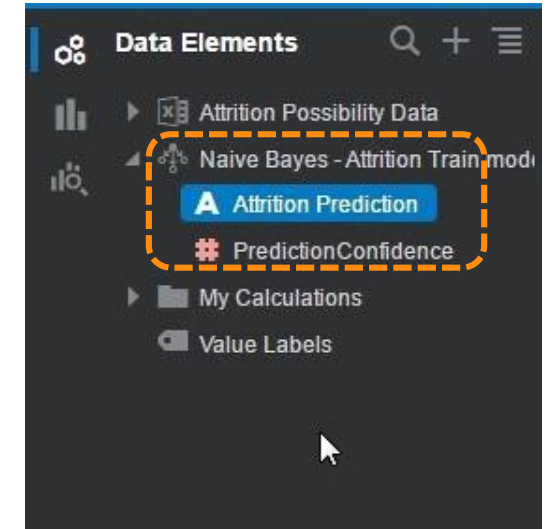
Updated Just now

CART - Heart Disease likelyho...

# 18 – ML : Model Scenarios



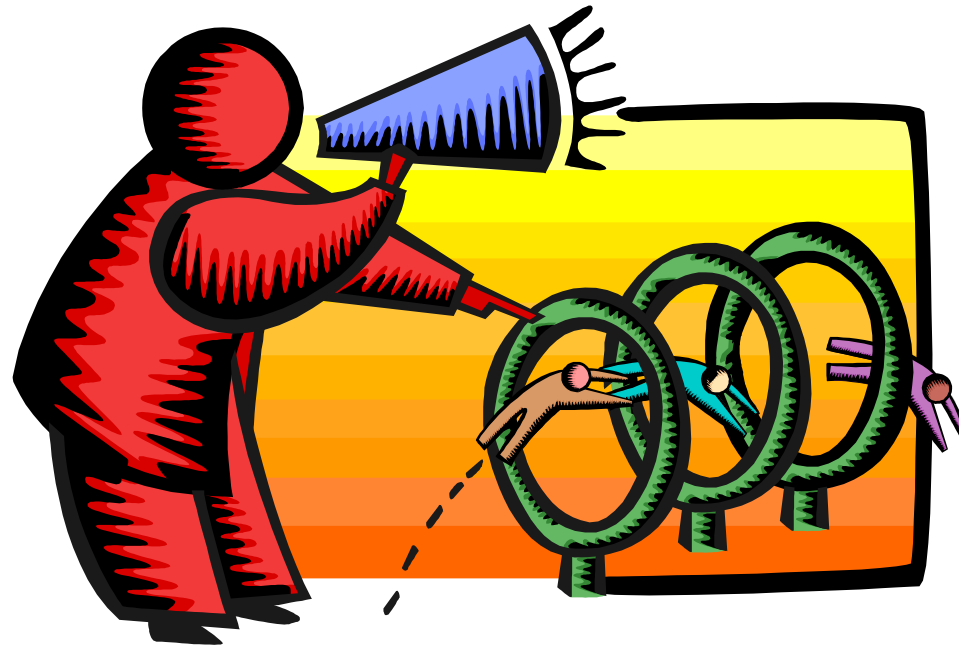
Apply trained models directly on DV data in the context of canvas (not in Data-flows)







# Demo





# Oracle Analytics Library

Data Visualization Cloud - LI X

https://www.oracle.com/solutions/business-analytics/data-visualization/library.html

Search


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⋮

Overview Plug-ins Sample Projects Maps & Spatial

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How to deploy Analytic Samples sort by Last Updated




**Example DV project: Great Circle Distance**

Oracle

October 29, 2017

Fully functional example DV project computing distance between 2 points using latitude and longitude. Script xml and Sample project included in download(Admin123)

Read me Download




**Example DV project: Term Frequency Analysis**

Oracle

October 25, 2017

Example DV project, the concept of Term Frequency is the number of times a term occurs in a document. To get the Term frequency analysis working on DV, we leverage DV's new feature of executing Python scripts. Includes .dva(Admin123) examples

Read me Download




**Example DV project: Heart Disease Prediction**

Oracle

October 25, 2017

Example DV project that can predict Heart disease likelihood using Train Multi-Classification ML node in dataflows. Includes .dva(Admin123) examples

Read me Download




**Example DV project: Bike Rental Prediction**

Oracle


October 25, 2017

Example DV project that can be used to predict Bike Rental count using Train Numeric Prediction ML node in dataflows. Includes .dva(Admin123) examples


Read me Download




**DV Governance**



**Example DV project: Attrition Prediction**



**Example DV project: Attrition Prediction**



**Map Layer: China**

Oracle





# Analytics and Data Summit

All Analytics. All Data. No Nonsense.

March 20 – 22, 2018

Formerly called the BIWA Summit with the Spatial and Graph Summit  
Same great technical content...new name!



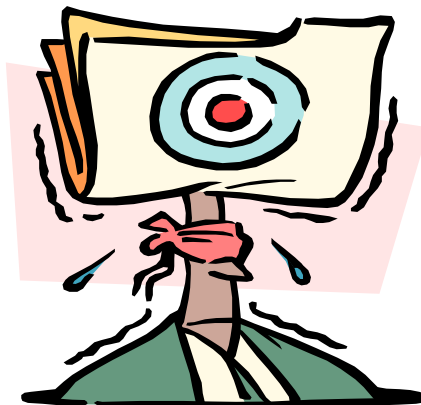
[www.AnalyticsandDataSummit.org](http://www.AnalyticsandDataSummit.org)

Call for speakers is now open with rolling acceptances until December 3, 2017





# Resources and Questions?



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Phone (816) 781-2880

Vlami Software Solutions

Twitter: @vlamissolutions

Vlami Home [www.vlami.com](http://www.vlami.com) Blog [www.vlami.com/blog](http://www.vlami.com/blog) Prior OBIEE releases [www.vlami.com/obiwebinars](http://www.vlami.com/obiwebinars)

Help on new features <https://docs.oracle.com/en/middleware/bi/data-visualization-desktop/dvdwn/index.html#DVDWN-GUID-5B4445B4-3BD9-40AD-AD11-E75BFB5543D1>

Oracle Analytics Library with plugins and demos <https://www.oracle.com/solutions/business-analytics/data-visualization/library.html>

YouTube channel BI Tech Demo from SampleApp Team <https://www.youtube.com/user/OracleBITechDemos>

YouTube video playlist on DV4 new features <https://www.youtube.com/watch?v=AoMxQDX4KNQ&list=PL0cpw36tp3yKTe2EDF29vr60wWIM4aWDP>

Analytics and Data Summit 2018 Conference <http://www.AnalyticsandDataSummit.org>