

ORACLE



Oracle分析平台Analytics Server(OAS)能力介绍

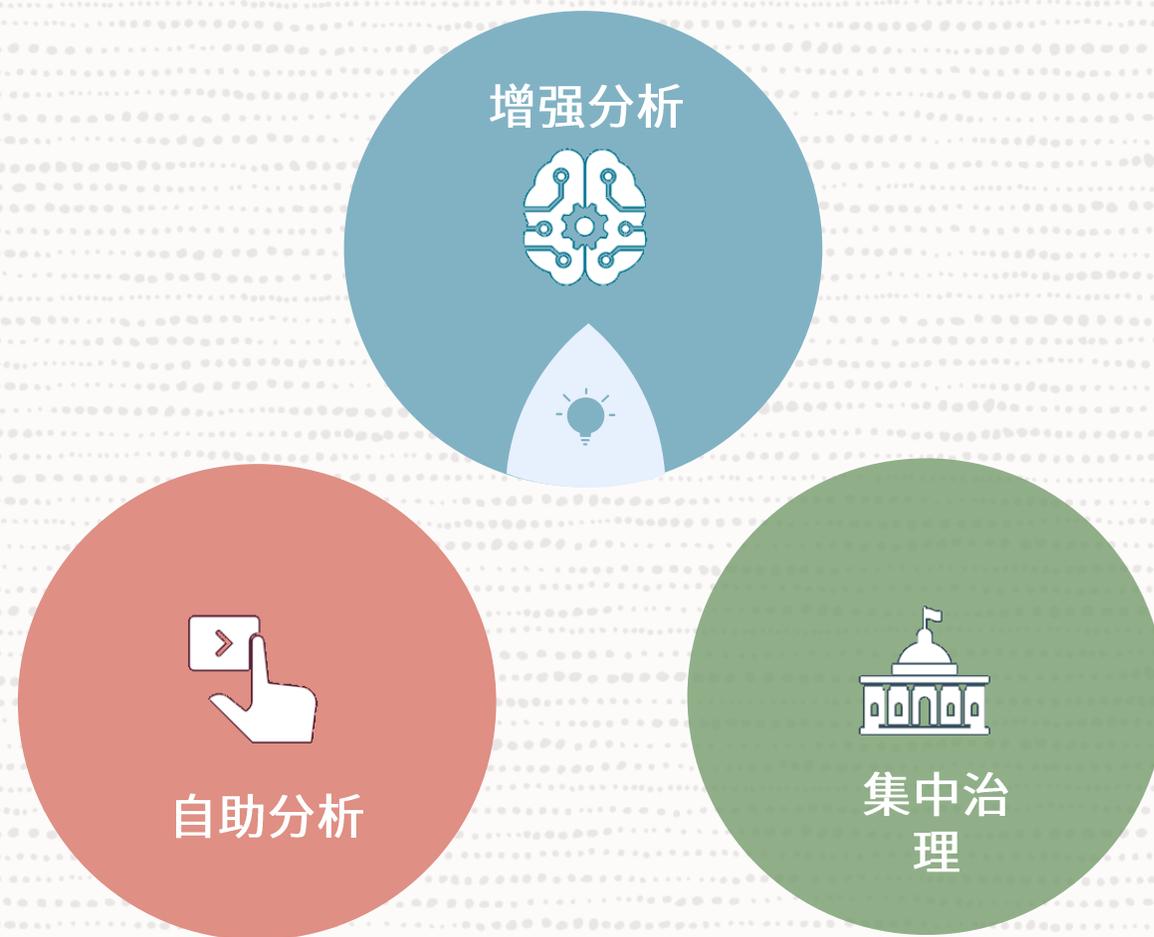
OAS智能分析平台助力客户探索与构建企业分析

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资深解决方案工程师

主题

- 自助分析能力
- 集中治理能力
- 增强分析能力



OAS 平台：能力列表



自助分析

- 多数据源
- 插件扩展
- 丰富图形
- 项目协同
- 数据清洗
- 灵活简单
- 数据联动
- 结果共享



集中治理

- 复杂报表
- 企业模型
- Office集成
- 地图
- 平台审计
- 大数据集成
- 权限管控
- 平台扩展
- Essbase链接
- 移动支持



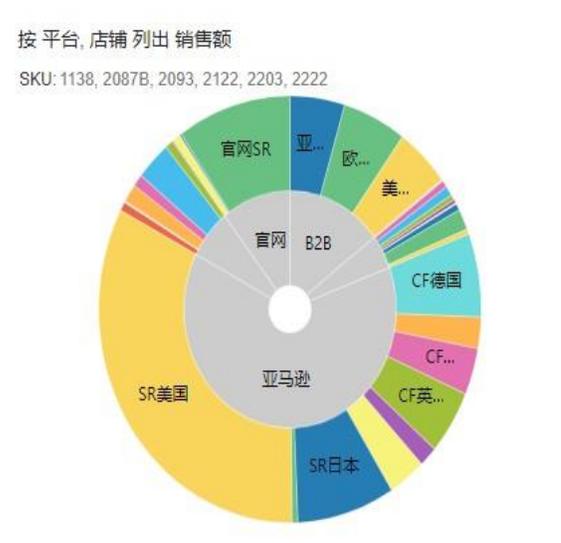
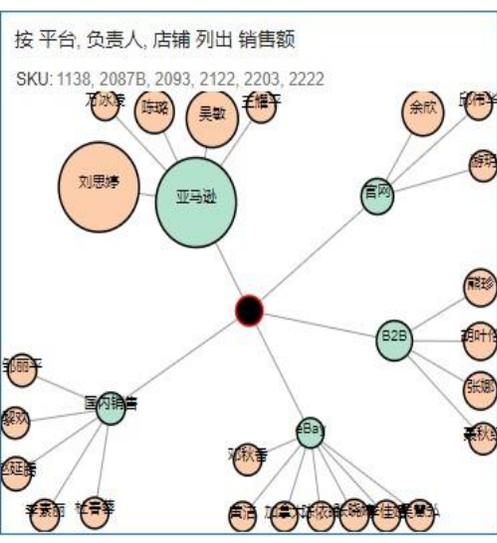
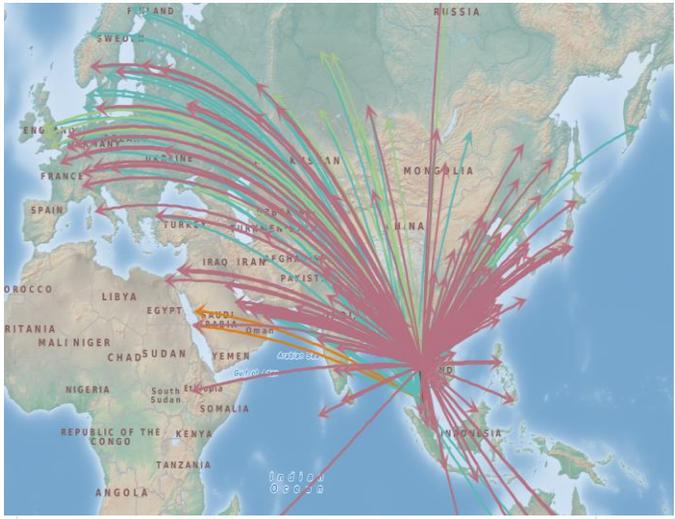
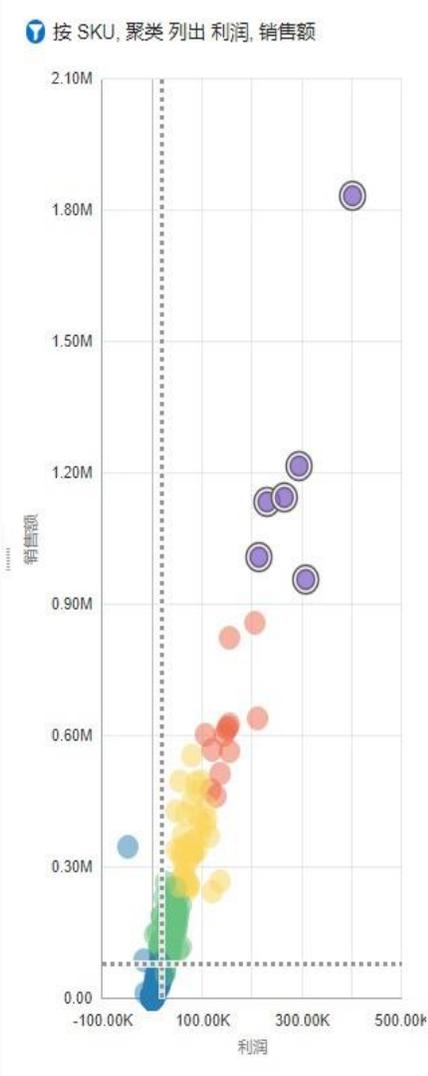
增强分析

- 机器学习
- 一键智能
- 智能问答
- 数据丰富
- 聚类异常
- 趋势预测
- 自动解释
- 模型训练



OAS 平台：丰富图形

平台	负责人	店铺	国家	SKU	日期
全部	全部	全部	全部	全部	完整范围



OAS 平台：丰富图形

ORACLE Analytics

emotion

Prepare Visualize Narrate Save

vol_requests Top 10

Visualizations

- Bar
 - Bar
 - Stacked Bar
 - 100% Stacked
 - Horizontal Bar
 - Horizontal 100%
 - Combo
 - Butterfly
 - Waterfall
 - Boxplot
 - Horizontal
- Line
 - Line
 - Area
 - 100% Area
 - Radar Line
 - Radar Area
 - Radar Bar
- Scatter
 - Scatter
 - Category
 - Stacked Category
- Pie (+Treemap)
 - Pie
 - Donut
 - Sunburst
- Treemap
- Grid

Picto

recurrence_type: onetime (blue), ongoing (green)

emotion: Negative (red), Neutral (yellow), Positive (green)

(Row Count) 1 shape = 10

Picto

Correlation Matrix

Correlation: Negative (red) to Positive (green)

100% Area

Waterfall

(Row Count) Increase (green), Decrease (red), Start, End (grey)

Grid Heat Map

vol_requests: 863 to 15K

Butterfly

Borough: BRONX, MANHATTAN, BROOKLYN, QUEENS

Census Tract: 768 to 337K

100% Stacked Bar

Boxplot

category_desc: Education, Emergency Preparedness, Environment, Health, Helping Neighbors in Need, Strengthening Communities

is_priority: y (green), n (blue)

OAS 平台：丰富图形

Country / Region Province / State
Tudo Tudo



COVID19 - Geo Statistics Interactive Map

Confirmed

125.865

Deaths

4.615

Death Rate

3,67%

Recovered

67.003

Recovered Rate

53,23%

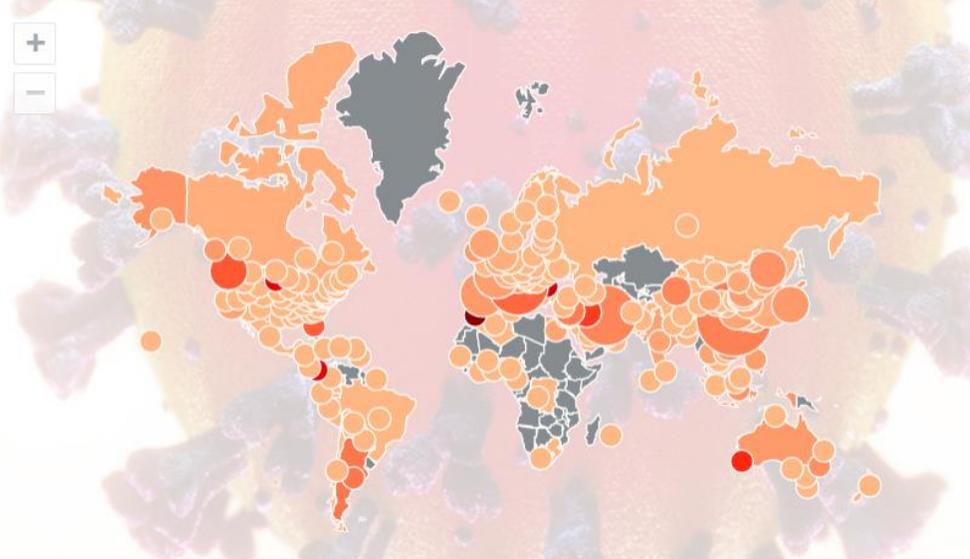
Last Update

11/03/2020

Death Rate Rank

Country / Region	Province / State	Death Rate	Confirmed	Deaths
Morocco		20,00%	5	1
Bulgaria		14,29%	7	1
Panama		12,50%	8	1
US	South Dakota	12,50%	8	1
Australia	Western Australia	11,11%	9	1
Iraq		9,86%	71	7
Albania		8,33%	12	1
US	Washington	7,92%	366	29
US	Florida	7,14%	28	2
Italy		6,64%	12.462	827
Argentina		5,26%	19	1
Lebanon		4,92%	61	3
China	Hubei	4,49%	67.773	3.046

Death Rate Map



Recovery Rank Rate

Country / Region	Province / State	Recovered Rate	Confirmed	Recovered
China	Macau	100,00%	10	10
China	Qinghai	100,00%	18	18
China	Tibet	100,00%	1	1
Nepal		100,00%	1	1
United Kingdom	Gibraltar	100,00%	1	1
China	Jiangxi	99,68%	935	932
China	Fujian	99,66%	296	295
China	Anhui	99,39%	990	984
China	Jiangsu	99,37%	631	627
China	Shanxi	98,50%	133	131
China	Zhejiang	98,35%	1.215	1.195
China	Henan	98,11%	1.273	1.249
China	Jilin	97,85%	93	91

Created by Marcelo Hellmeister Bellorio (<https://www.linkedin.com/in/marcelobellorio>), powered by Oracle Analytics Cloud and Oracle Autonomous Datawarehouse

Data Source: https://github.com/CSSEGISandData/COVID-19/tree/master/csse_covid_19_data

Worldwide

China

US

OAS 平台：扩展能力

条形图

折线图

散点图

饼图 (+树状图)

网络

更多

定制可视化

Force Directed

Variable

堆叠条形图

水平堆叠

类别

堆叠类别

表

相关性矩阵

Picto

弦图

平行坐标

地图

标记云

分桶符

时间轴

图像

Force Directed

ParetoChar t Plugin

Butterfly

Collapsible

100% 堆叠条形图

水平 100% 堆叠条形图

瀑布图

水平箱线图

面积图

100% 面积图

雷达图

雷达面积图

雷达象形图

旭日图

桑基图

网络

环形网络

网络

树图表

弦图表

平行坐标

50 贴标

语言叙述

列表

定制可视化

扩展



Org Chart
Oracle
July 08, 2020
Org Chart Plugin visualizes the reporting hierarchy of an organization, relationship between the entities and categorization based on color.

[Download](#)



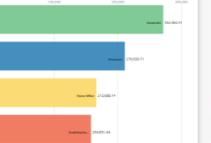
Image Gallery Plug-in
Oracle
June 16, 2020
An interactive gallery viewer for exposing images as DV view.

[Download](#)



"Elbow" Dendrogram
G.Adashek & D.Flores
June 16, 2020
The "Elbow" Dendrogram creates a hierarchy based Parent-Child like structure with "links-arms" that are bent at a 90° angle. This plugin can render a #measure element and is zoomable.

[Download](#)



Racing Bars
Oracle
Mar 17, 2020
Dynamic bar chart showing moving bar values over a lapse of time.

[Download](#)



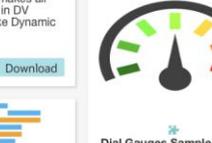
Gantt Chart Sample Plugin
Oracle
Nov 11, 2018
Custom sample plugin to depict the timeframe of tasks/elements. Customized tooltip displaying metrics information, properties to change major/minor time axis and color coding of categorical information make it compelling visualization.

[Download](#)



Row Expander Sample Plugin
Oracle
Jan 11, 2019
Custom visualization plugin that enables a fully interactive drill up/drill down hierarchy experience in Oracle DV.

[Download](#)



Vertical Waterfall
G.Adashek & D.Flores
Jan 9, 2019
The Vertical Waterfall is the "tipped" (top-to-bottom) version of what many know as the traditional horizontal (left-to-right) Waterfall chart. By rotating the visualization 90 degrees clockwise, this allows for easy to read text along the y-axis spine of the visualization.

[Download](#)



Dial Gauges Sample Plugin
Oracle
Feb 12, 2019
Custom sample plugin showing an interactive Dial Gauge Visualization in a trellis fashion.

[Download](#)



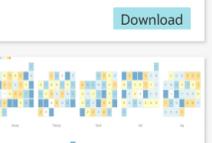
Presentation Variable Prompts
Oracle
Dec 02, 2019
Use this custom plugin to set the value of any presentation variables allow to make dynamic columns or dynamic constants in any Oracle DV custom calculation

[Download](#)



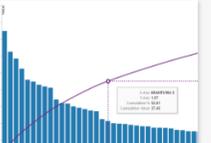
Graph Network viz
Oracle
Feb 26, 2020
Use this custom visualization plugin to visualize complex relationships between huge amount of elements in the form of graph structures. Entities are displayed as nodes and the lines between them.

[Download](#)



Calendar Heatmap Sample Plugin
Oracle
Nov 30, 2019
Visualization to represent time series data in calendar format.

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Pareto Chart
Oracle
Feb 05, 2020
Visual your 80/20 distribution on any dimension in your datasets.

[Download](#)



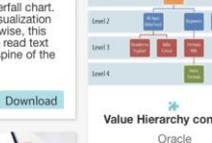
Force Directed Graph Plugin
Vlavis
Jan 18, 2018
The Force Directed Graph plugin allows you to easily visualize hierarchical data. Each node's location can be dragged and pinned. The visualization automatically moves nodes to prevent overlap and each node is clickable to expand (and collapse) to display subordinate data allowing you

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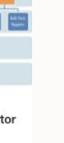
Custom Points Map Plugin
Oracle
Sept 05, 2018
Updated to include Support of WMS and XYZ Tile Map layers and Color and Size edge implemented. Custom sample plugin that allows you to display your location data in multiple interesting ways with cool features like Map wrap around, auto zoom to displayed theme, feature animation etc. Offers a choice of background maps like Open Street Map, Google map, Oracle Map, Carto Position, Carto Dark, Mapbox.

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Value Hierarchy convertor
Oracle
Oct 22, 2018
The following package consists of Python script and custom viz plugin. The objective of both is to deserialize input data coming in the form of (parent, child) format and output the entire hierarchy in to a level based format, with parent to children on each row. There is also an option for downloading output data from the custom viz plugin.

[Download](#)



Mobile Grid Bars Plug-in
Oracle
Feb 05, 2018
Designed specifically for mobile devices highlighting the use of a variety of bar charts.

[Download](#)



Auto Refresh
Oracle
July 08, 2019
The Auto Refresh custom sample plugin allows you to refresh your data in DV projects automatically in a given time interval. This helps in analysing changing/streaming data or sliding windows of time series data

[Download](#)



DV Governance
Oracle
Nov 27, 2019
get an indepth analysis of your DV deployment, identify # of projects, datasources, data flows and much more. Includes DV sample

[Download](#)



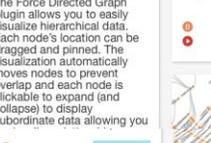
Motion Chart
Oracle
August 13, 2019
Motion chart is an animated bubble chart showing data transformation over a period of time using X axis, Y axis, size and color of the bubble.

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Kinetica plugin
Oracle
Nov 27, 2019
Kinetica plugin helps you visualize large complex datasets hosted in a Kinetica cluster in the form of maps. Interactions from DV to Kinetica viz and vice versa is enabled in the form of filters.

[Download](#)



Collapsible Tree Plugin
KPI Partners
May 5, 2017
The Collapsible Tree Plugin produces a node-link diagram that lays out the connection between nodes in a way that displays the relationship of one node to another in a parent-child fashion.

[Download](#)



Bullet Sample Plugin
Oracle
Feb 27, 2017
A custom sample plugin that enables you to compare metrics in a bullet chart visualization. It helps in comparing a metric with a target value with an optional marker value thereby conveying lot of information in a compact space.

[Download](#)



Quadrant Sample Plugin
Oracle
Jan 11, 2017
Custom sample plugin that enables you to pick four a quadrant based on two thematic variables the X and Y axis. Options to change number of rows and columns in the sample to accommodate varying data ranges and color coding based on categories.

[Download](#)



Auto-Cluster Map Plugin
Oracle
Dec 05, 2016
Custom sample plugin showing Cluster Maps that automatically groups and name features based on proximity. Points clustered within a specified distance (in pixels) are grouped and colored using a circle marker with a count. Available on a host of background map choices.

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Custom Tiles
Oracle
Mar 12, 2019



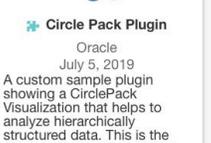
Funnel Sample Plugin
Oracle
June 22, 2019
Custom sample plugin showing a Funnel Visualization to depict stages/phases within an overall process.

[Download](#)



Dimension Player
Oracle
Mar 28, 2019
A custom sample plugin that plays through the values of a dimension column like time, region etc and automatically updates all the visualizations

[Download](#)



Circle Pack Plugin
Oracle
July 5, 2019
A custom sample plugin showing a CirclePack Visualization that helps to analyze hierarchically structured data. This is the default sample shipped with DVD SDK.

[Download](#)



Auto-Cluster Map Plugin
Oracle
Dec 05, 2016
Custom sample plugin showing Cluster Maps that automatically groups and name features based on proximity. Points clustered within a specified distance (in pixels) are grouped and colored using a circle marker with a count. Available on a host of background map choices.

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Daum Maps Plugin
Oracle
Dec 09, 2016
Custom visualization plug-in for Oracle DV showing DAUM Maps. This map primarily has Korean geographic region. Other regions may not render at all.

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Candlestick Sample Plugin
Oracle
Sept 6, 2016
Custom sample plugin showing an interactive candlestick visualization. This visualization shows interactive candlestick price like data. A combination of red and green bars are densely packed with information and represents tracing patterns over a period of time.

[Download](#)



Exploit Sample Plugin
Oracle
Sept 05, 2016
Custom visualization plugin showing interactive Exploit chart. It is densely packed with information and represents tracing patterns over a period of time.

[Download](#)

OAS平台：多数据源

创建连接

选择连接类型



- | | | | | | | | | |
|---|---|---|--|---|---|--|---|--|
| 
Oracle Applications | 
Oracle Autonomous Data Warehouse | 
Oracle Autonomous Transaction Processing | 
Oracle Database | 
Oracle Essbase | 
Oracle EPM Cloud | 
Oracle NetSuite | 
Oracle Service Cloud | 
Oracle Talent Acquisition |
| 
Amazon EMR | 
Amazon Redshift | 
Apache Hive | 
DB2 | 
Dropbox | 
Google Analytics | 
Google Drive | 
Greenplum | 
Hortonworks Hive |
| 
IBM BigInsights Hive | 
Impala | 
Informix | 
MapR Hive | 
MongoDB | 
MySQL | 
Pivotal HD Hive | 
PostgreSQL | 
Salesforce |
| 
Snowflake Data Warehouse | 
Spark | 
SQL Server | 
Sybase ASE | 
Sybase IQ | 
OData | | | |

取消

OAS平台：数据表格

数据透视表

列

- 状态
- 值标签

行

- 付款方式
- 部门

值

- 应收金额
- 实收金额
- 未收金额

颜色

大小

形状

工具提示

筛选器

按 付款方式, 部门, 状态 列出 应收金额, 实收金额, 未收金额

付款方式	部门	处理中			完成			新建			合计 应收金额	合计 实收金额	合计 未收金额
		应收金额	实收金额	未收金额	应收金额	实收金额	未收金额	应收金额	实收金额	未收金额			
		7,920,000	5,643,000	2,277,000							7,920,000	5,643,000	2,277,000
								1,795,200	0	1,795,200	1,795,200	0	1,795,200
中间款	总计	16,500,000	11,253,000	5,247,000				11,695,200	0	11,695,200	28,195,200	11,253,000	16,942,200
尾款		5,280,000	3,168,000	2,112,000							5,280,000	3,168,000	2,112,000
		7,728,600	3,864,300	3,864,300							7,728,600	3,864,300	3,864,300
		7,524,000	6,276,600	1,247,400							7,524,000	6,276,600	1,247,400
		5,148,000	3,267,000	1,881,000							5,148,000	3,267,000	1,881,000
		8,844,000	8,019,000	825,000							8,844,000	8,019,000	825,000
								897,600	0	897,600	897,600	0	897,600
尾款	总计	34,524,600	24,594,900	9,929,700				897,600	0	897,600	35,422,200	24,594,900	10,827,300
服务收款								471,900	0	471,900	471,900	0	471,900
					161,700	161,700	0				161,700	161,700	0
服务收款	总计				161,700	161,700	0	471,900	0	471,900	633,600	161,700	471,900
首付款					9,240	9,240	0				9,240	9,240	0
					52,800	52,800	0				52,800	52,800	0
					8,910,000	8,910,000	0				8,910,000	8,910,000	0
		6,930,000	6,270,000	660,000							6,930,000	6,270,000	660,000
					660,000	660,000	0				660,000	660,000	0
					1,795,200	1,795,200	0				1,795,200	1,795,200	0
								214,500	0	214,500	214,500	0	214,500
					858,000	858,000	0				858,000	858,000	0
					16,500	16,500	0				16,500	16,500	0
首付款	总计	6,930,000	6,270,000	660,000	12,301,740	12,301,740	0	214,500	0	214,500	19,446,240	18,571,740	874,500
合计		57,954,600	42,117,900	15,836,700	12,463,440	12,463,440	0	13,279,200	0	13,279,200	83,697,240	54,581,340	29,115,900



OAS平台：数据清洗

» DF_Sales_Demo_Trans
运行数据流 保存

数据流步骤

- 创建 Essbase 多维数据...
- 添加列
- 选择列
- 重命名列
- 转换列
- 合并列
- 拆分列
- 收集器
- 组
- 分支
- 累积值
- 时间序列预测
- 分析情感
- 应用定制脚本
- 训练数字预测
- 训练多分类器
- 训练聚类
- 训练二进制分类器
- 训练定制模型
- 应用模型

数据流步骤: Sales_Un... → 重命名列 → 转换列 → 合并列 → **组** → 收集器 → 保存数据

保存数据集

名称: Sales_Trans

说明:

将数据保存到: 数据库连接

连接: 选择连接

表: Sales_Trans

运行时: 将新数据添加到现有数据

运行时: 替换现有数据

运行时: 将新数据添加到现有数据

名称	数据库名称	处理为	默认聚合
负责人	COL_	属性	
店铺	COL__1	属性	
平台	COL__1_2	属性	
日期	COL__1_2_3	属性	
SKU	SKU	属性	
数量	COL__1_2_3_4	度量	总和

ab 负责人	ab 店铺	ab 平台	日期	ab SKU	99 数量	99 销售额	99 成本	99 运营成本	99 利润	ab 国家	ab 店铺-负责人	ab 平台分类	ab 购买力
	官网SR	官网	2019-01-01	998	1	1,054.62	218.54	530.89711752	305.18568248	波兰		国外站点	<= 1
	官网SR	官网	2019-01-01	1031	1	409.52	96.316	206.153556024	107.052803976	波兰		国外站点	<= 1
	官网SR	官网	2019-01-01	1659	1	409.52	63.72	206.153556024	139.648803976	波兰		国外站点	<= 1
	官网SR	官网	2019-01-01	2221	1	493.07	157.514	248.21163936	87.34476064	波兰		国外站点	<= 1
	官网SR	官网	2019-01-01	1593	2	188.19	39.912	94.7341090224	53.5424269776	新加坡		国外站点	> 1 至 2
	官网SR	官网	2019-01-01	2244	2	654.69	131.968	329.569898928	193.150021072	新加坡		国外站点	> 1 至 2
	官网SR	官网	2019-01-01	APL2253	1	1,082.02	259.426	544.68665304	277.90294696	法国		国外站点	<= 1
	官网SR	官网	2019-01-01	DCS2279	1	162.99	55.262	82.047736344	25.677423656	美国		国外站点	<= 1
	官网SR	官网	2019-01-01	2077	1	1,082.02	227.624	544.68665304	309.70494696	日本		国外站点	<= 1
	官网SR	官网	2019-01-01	AAK2213	1	231.47	177.94	116.521575144	-62.992415144	日本		国外站点	<= 1



OAS 平台：能力列表

自助分析

- 多数据源
- 插件扩展
- 丰富图形
- 项目协同
- 数据加工
- 灵活简单
- 数据联动
- 结果共享

集中治理

- 复杂报表
- 企业模型
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- 地图
- 平台审计
- 大数据集成
- 权限管控
- 平台扩展
- Office集成
- Essbase链接
- 移动支持

增强分析

- 机器学习
- 一键智能
- 智能问答
- 数据丰富
- 聚类异常
- 趋势预测
- 自动解释
- 模型训练



Institution
 Vision University

Department

- Administrative and Support
- Applied Physics
- Art & Art History
- Biology
- Business
- Chemistry
- Communication
- Computer Science
- Economics
- Education
- Engineering
- English
- Mathematics

Account Group
 --选择值--

Account
 --选择值--

Year
 2014

Month
 --选择值--

应用 重置

Avg Revenue per Student

● **\$7,969**

2014 Fall Term

Enrollment Yield

● **34.1%**

2014 Fall Term

4-Year Graduation Rate

● **59.0%**

Academic Year 2014

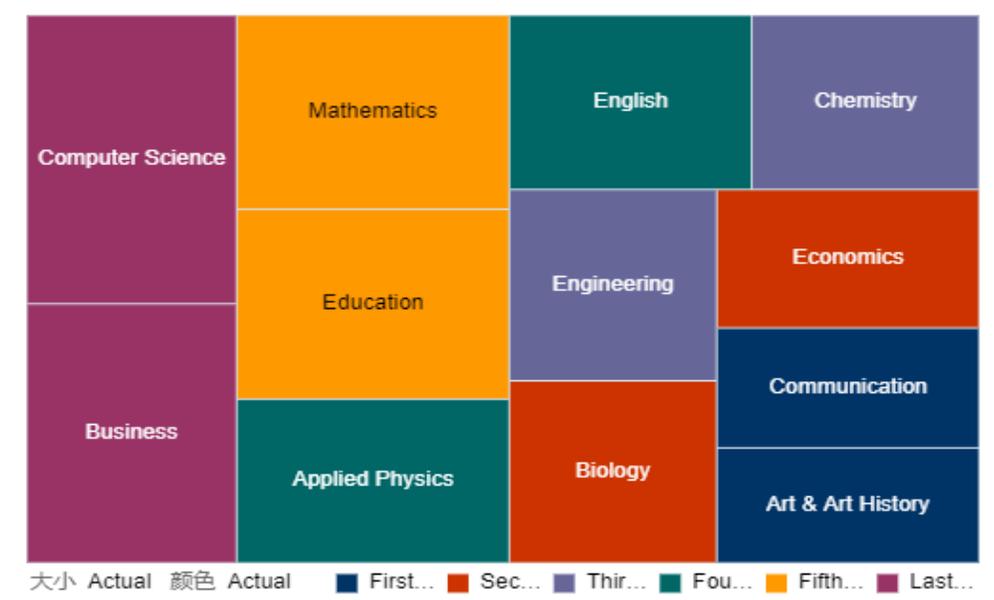
Students per Instructor

● **20**

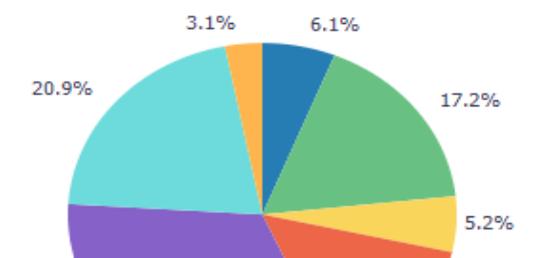
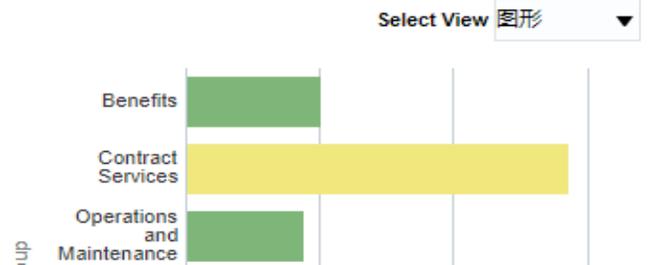
2014 Fall Term

Expenses by Academic Department

Department	2014	
	Actual	% of Total
Applied Physics	\$12,359,361	8.6%
Art & Art History	\$8,372,122	5.8%
Biology	\$10,462,581	7.2%
Business	\$15,065,587	10.4%
Chemistry	\$10,978,774	7.6%
Communication	\$8,703,713	6.0%
Computer Science	\$16,776,665	11.6%
Economics	\$10,054,380	7.0%
Education	\$14,316,558	9.9%
Engineering	\$10,970,266	7.6%
English	\$11,686,987	8.1%
Mathematics	\$14,624,897	10.1%
合计	\$144,371,891	100.0%



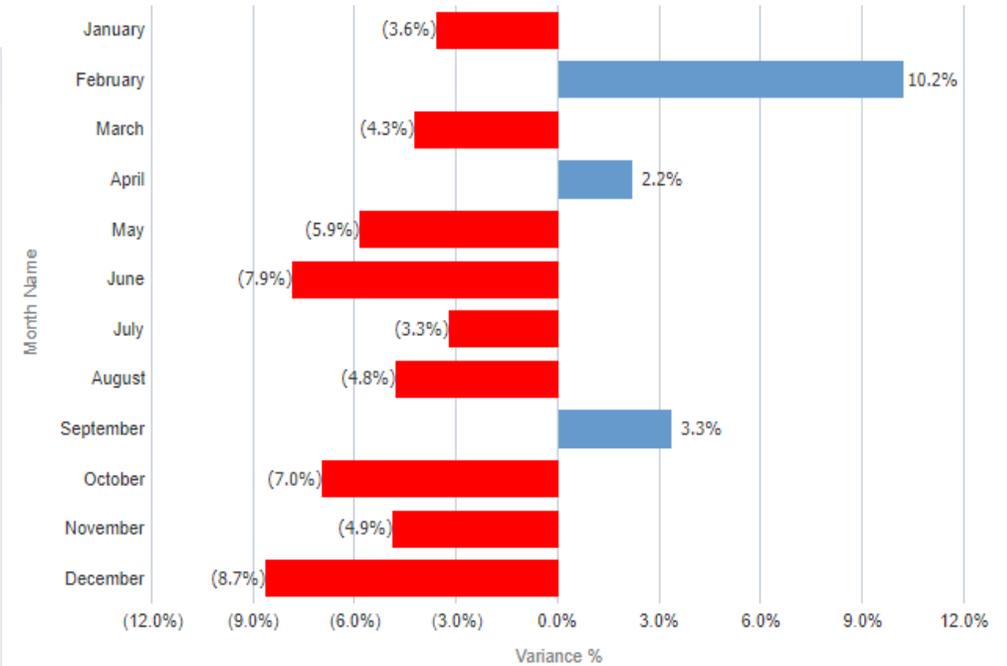
Expenses by Account Group



Expenses Actual vs Budget Detail

Vision University 2014

Department	Account Group	Account	Month Name	Actual	Budget	Variance	Variance %
	Contract Services	600030 Contracted Services	January	\$441,535	\$420,493	(\$21,042)	(4.8%)
			February	\$306,221	\$331,581	\$25,360	8.3%
			March	\$429,219	\$391,138	(\$38,082)	(8.9%)
			April	\$336,260	\$368,940	\$32,680	9.7%
			May	\$513,843	\$459,187	(\$54,656)	(10.6%)
			July	\$415,440	\$385,486	(\$29,955)	(7.2%)
			August	\$497,433	\$469,643	(\$27,790)	(5.6%)
			September	\$342,461	\$373,487	\$31,026	9.1%
			October	\$349,534	\$370,092	\$20,558	5.9%
			November	\$364,729	\$335,392	(\$29,337)	(8.0%)
			December	\$434,712	\$399,803	(\$34,910)	(8.0%)
			Operations and Maintenance	650025 Operations & Maintenance	January	\$77,796	\$91,627
	February	\$107,399			\$127,027	\$19,628	18.3%
	March	\$127,846			\$121,610	(\$6,236)	(4.9%)
	April	\$115,570			\$119,391	\$3,820	3.3%
	May	\$140,577			\$134,489	(\$6,087)	(4.3%)
	July	\$94,917			\$118,298	\$23,381	24.6%
	August	\$118,572			\$133,696	\$15,124	12.8%
	September	\$132,760			\$131,672	(\$1,088)	(0.8%)
	October	\$142,134			\$116,823	(\$25,311)	(17.8%)
	November	\$94,280			\$108,508	\$14,228	15.1%
	December	\$140,839			\$119,994	(\$20,845)	(14.8%)
	Other Operating Expenses	600050 Alumni Activities Expense			January	\$60,980	\$51,714
			February	\$35,228	\$42,382	\$7,154	20.3%
March			\$54,214	\$46,501	(\$7,713)	(14.2%)	
April			\$31,091	\$36,767	\$5,676	18.3%	
May			\$47,530	\$44,463	(\$3,067)	(6.5%)	
June			\$34,528	\$43,292	\$8,764	25.4%	



OAS平台：企业模型

Oracle BI 管理工具 - OAS5.5.rpd

文件(F) 编辑(E) 查看(V) 管理(M) 工具(T) 图表(D) 窗口(W) 帮助(H)

表示

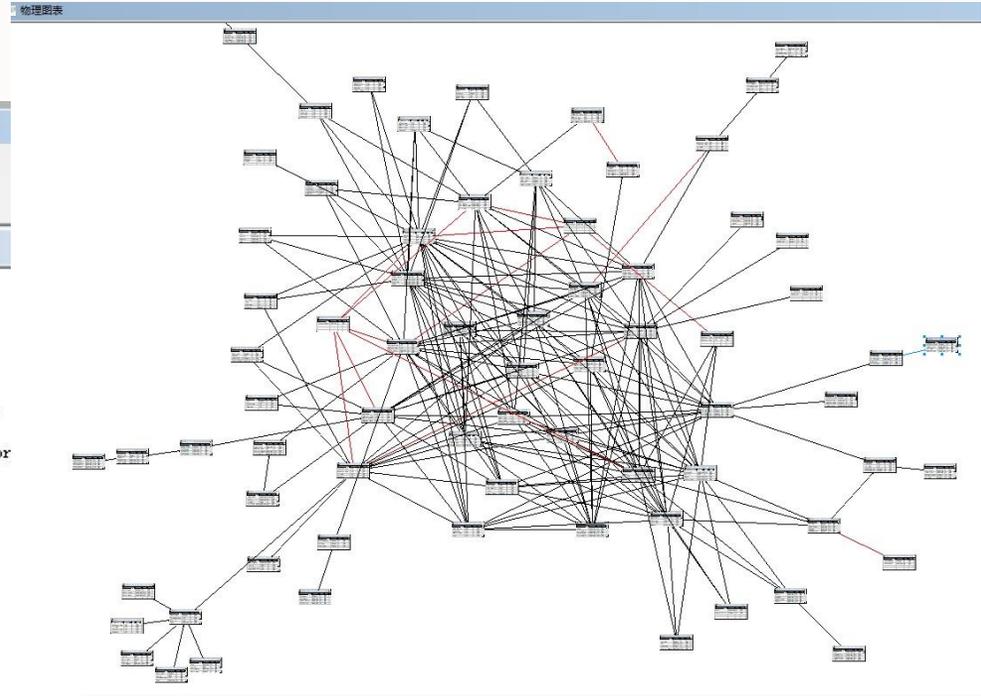
- A - Sample Sales
- B - Sample Sales Exa
- C - Sample Costs
- D - Sample Federated
- DMUSER
- E - Sample Essbase
- F - Essbase Interaction
- G - Sample Essbase GL
- H - Sample Olap
- K - Sample Flat Files
- L - Geo Loc
- M - Big Data Movie
- O - OAA Integration
- R - ORE Sample
- U - Usage Tracking
- X - Functional Sources
- X - Airlines Delay
- X - Airlines Traffic
- X1 - Db Structure
- X2 - Scheduled Jobs
- X3 - Sample BPM
- X5 - OLTP (Fusion Order)
- X6 - Warranty Claims
- Y10 - Movies Demo
- Y11 - Other Demos
- Y12 - Donations

业务模型和映射

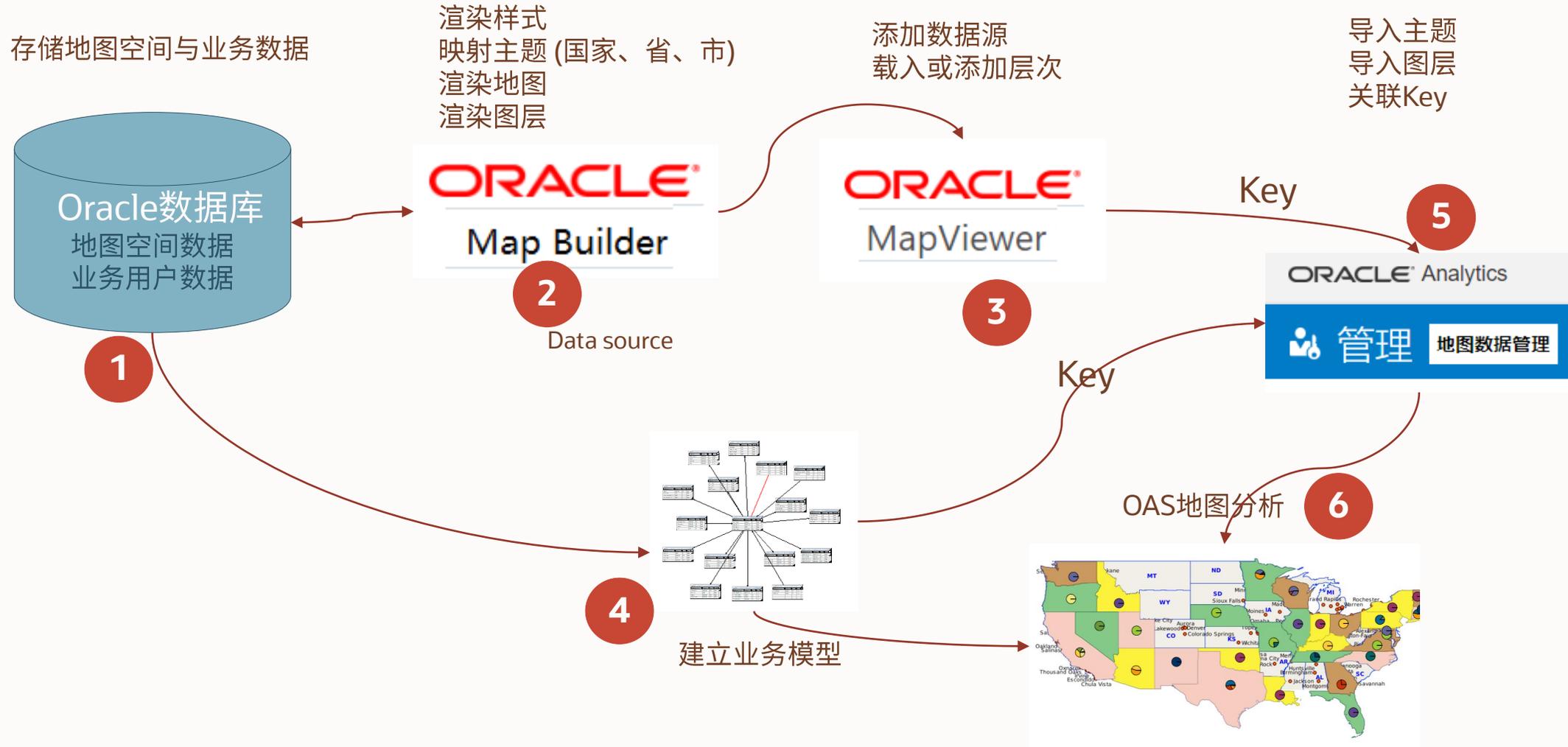
- 01 - Sample App
- 01 - Sample App Exa
- 02 - Flat XML files Sample
- 03 - Essbase GL
- 03 - Essbase Integration
- 03 - Essbase Sample
- 04 - Olap Sample
- 06 - Federated Sources
- 07 - Spatial Samples
- 08 - ORE Sample
- 10 - Usage Tracking
- 11 - OAA Integration
- 12 - Big Data Movie
- DMUSER
- X - Functional Examples
- X0 - Airlines
- X1 - Db Structure
- X2 - Scheduled Jobs
- X3 - Bus Process Monitoring (BPM)
- X5 - OLTP Source (Fusion Order)
- X6 - Warranty Claims
- Y10 - Movie Demo (ORCL)
- Y11 - Other Demos
- Y12 - Donations

物理

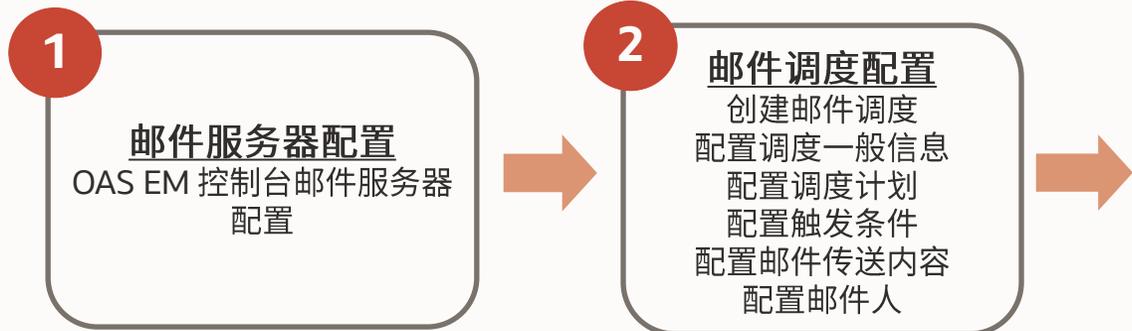
- 01 - Sample App Data (ORCL)
- 02 - Sample App Exa Data (ESSB)
- 02 - Sample App Exa Data (ORCL)
- 03 - Essbase GL Basic
- 03 - Essbase GL Sample Flat
- 03 - Essbase GL Sample Hierarchical
- 03 - Essbase Sample E1 Flat
- 03 - Essbase Sample E2 (Default Import)
- 04 - Sample OLAP AW
- 07 - ORE Sample
- 08 - Sample App Xml Target Data
- 09 - Sample Geo Data (ORCL)
- 10 - BI Publisher Audit
- 10 - System DB (ORCL)
- 20 - Big Data Movie (Hive)
- 21 - Big Data Movie (Impala)
- 22 - Big Data Movie (BDSQL)
- 23 - Big Data Movie (Spark)
- 24 - Big Data Movie (AGGS)
- DMUSER
- UsageTracking
- X - Functional Sources Examples
- X0 - Airlines Demo Dbs (ESSB)
- X0 - Airlines Demo Dbs (ORCL)
- X1 - ORCL Database Admin
- X2 - Scheduled Jobs (ORCL)
- X3 - BPM Data (ORCL)
- X6 - Warranty Claims Data
- Y01 - Custom Demo Datasets
- Y10 - Movies Demo (ORCL)
- Y12 - Donations Project



OAS平台：地图制作过程



OAS平台：预警机制



一般信息 调度 条件 传送内容 收件人 目标 操作

设置此代理的优先级以及用于在运行时模拟不同用户的选项。

优先级 高 普通 低

运行身份 收件人 指定用户

weblogic

创建者 weblogic
创建时间 10/20/2021 5:43:11 PM (北亚夏时制时间)
上次修改时间 1/25/2022 11:10:04 PM (北亚夏时制时间)
说明

Reply Reply All Forward

Sat 7/18/2020 8:47 PM

Oracle Delivers [Redacted]

OAS邮件测试?

To Sammy Sun

[If there are problems with how this message is displayed, click here to view it in a web browser.](#)

Delay Causes Breakdown as % of flight time

	A - Flight Time	B - Carrier Delay	C - Late Aircraft Delay	D - Weather Delay	E - NAS Delay	F - Security Delay	G - Other Delay	H - Net Flight Time	Total
Delay Time	0.0%	2.4%	3.1%	0.3%	2.0%	0.0%	1.0%	0.0%	8.9%



OAS平台：复杂式报表

FROM: My Toy Supplier 300 Oracle Parkway Redwood Shores CA 94065		CARRIER: 1324324232-354354 PRO NUMBER: 1324324232-354354 B/L NUMBER: 1324324232-354354	
TO: KMART STORE # 1234 100 El Camino Real Redwood City CA 94404			
SHIP TO POSTAL CODE  * 2 3 4 5 6 7 8 9 0 *		PO#: 12345678 ORDER TYPE: 123 DEPT: 123	
SERIAL SHIPPING CONTAINER  * 2 3 4 5 5 4 6 3 0 8 7 3 0 4 7 3 0 3 7 6 3 0 3 4 0 *			

October 31, 2005

ORACLE
Vision Operations (USA)

AT&T Universal Card
5645 Main Street
Jacksonville
FL
32209

Dear Sirs/Madam,

According to our records as of 01-JAN-04, we show the following open balances.
Your CAD balance is \$31,500.00, made up as follows:

Invoice Number	Invoice Type	Invoice Amount	Bank Charge	Open Balance Amount
502444	Standard	\$19,125.00	\$0.00	\$19,125.00
502445	Standard	\$12,375.00	\$0.00	\$12,375.00
Invoice Balance				\$31,500.00
On-Account Credits and Receipts				\$0.00
Total				\$31,500.00

Your USD balance is \$3,365,647.81, made up as follows:

Invoice Number	Invoice Type	Invoice Amount	Bank Charge	Open Balance Amount
10019903	Standard	\$132,733.84	\$0.00	\$132,733.84
10020178	Standard	\$71,577.42	\$0.00	\$71,577.42
10020219	Standard	\$89,344.81	\$0.00	\$89,344.81
10020407	Standard	\$223,563.03	\$0.00	\$223,563.03
10020408	Standard	\$176,353.55	\$0.00	\$176,353.55
10020487	Standard	\$112,902.54	\$0.00	\$112,902.54
10020520	Standard	\$147,740.25	\$0.00	\$147,740.25
10020522	Standard	\$281,904.71	\$0.00	\$281,904.71
10020523	Standard	\$160,505.87	\$0.00	\$160,505.87
10020548	Standard	\$176,353.55	\$0.00	\$176,353.55

Oracle Corporation
500 Oracle Parkway
Redwood City
CA 94065

Private and Confidential Page 7 of 12

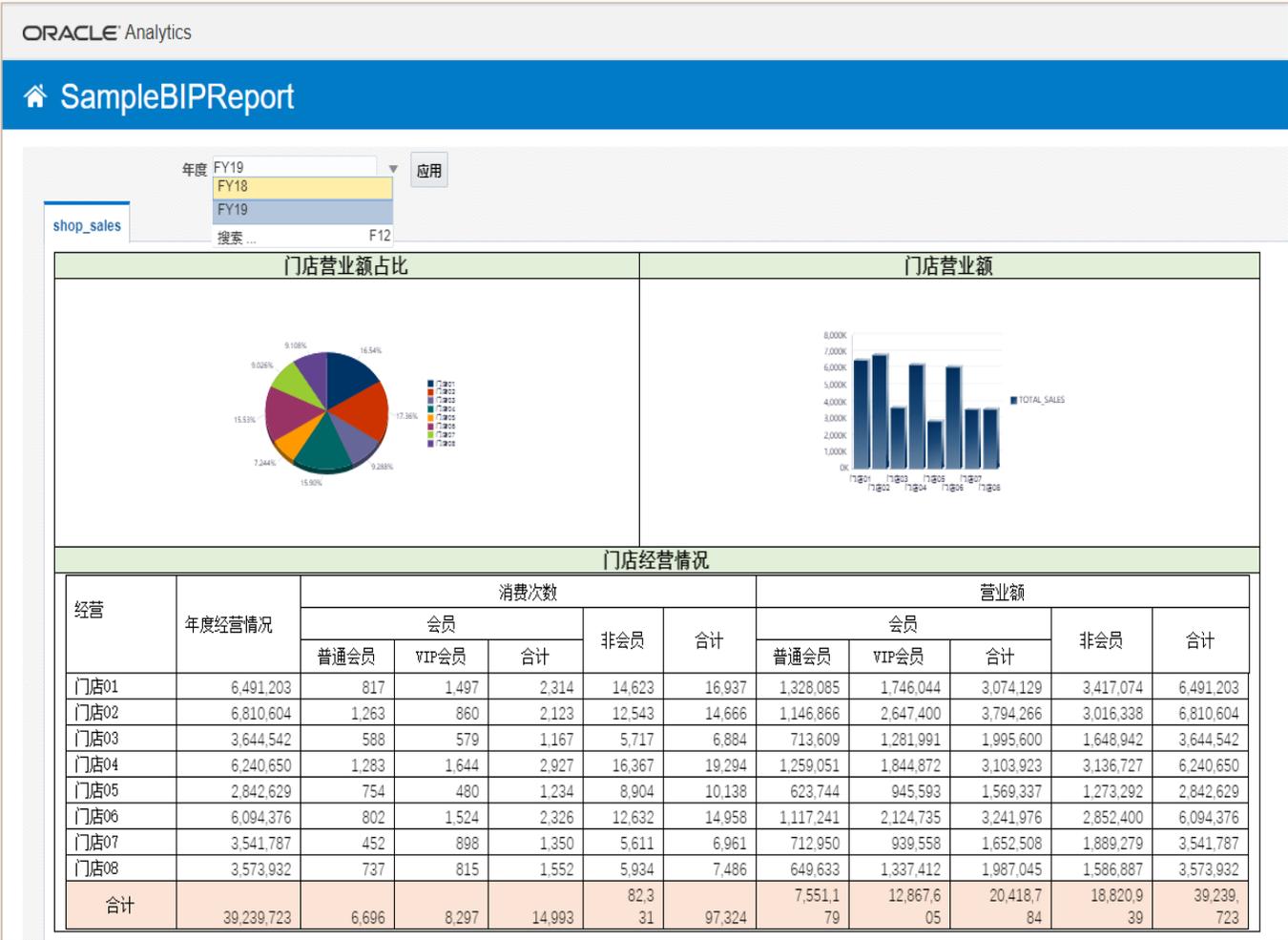
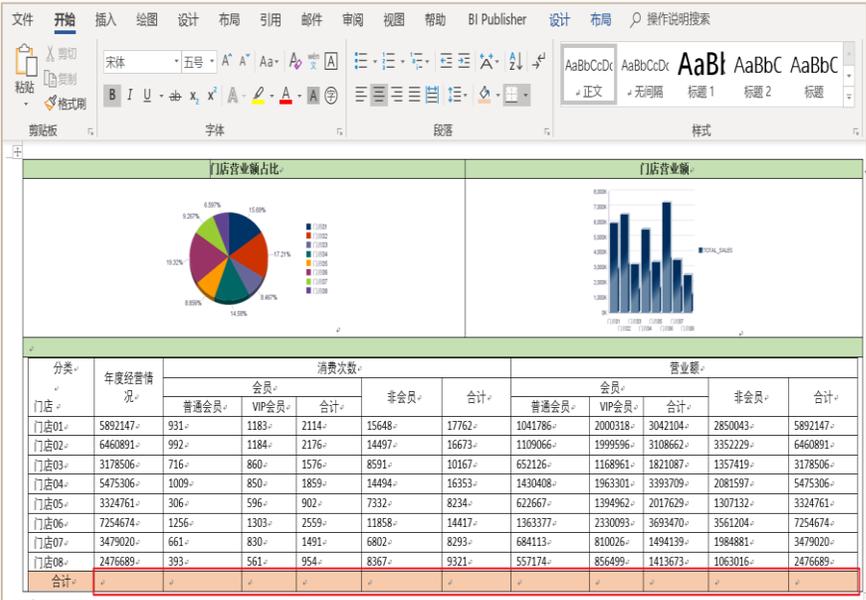
DESCRIPTION	QTY	UNIT PRICE	AMOUNT	TAX
Internet Application Server Standard Edition - Processor Perpetual Product Support - 2003/11/25 to 2003/05/30 License Qty: 1 CSI: 3301459 Users: 2	1	1023.89	1023.89	GST
NETWORK ACCESS FEE-DEPARTMENTAL Product Support - 2003/11/25 to 2003/05/30 License Qty: 2 CSI: 39294 Users: 1 CONCURRENT DEVICE DEPLOYMENT	1	1026.66	1026.66	GST
NETWORK ACCESS FEE-DEPARTMENTAL Product Support - 2003/11/25 to 2003/05/30 License Qty: 1 CSI: 3301459 Users: 1 CONCURRENT DEVICE DEPLOYMENT	1	1026.66	1026.66	GST
ODD Repository - Nonstandard User Product Support - 2003/11/25 to 2003/05/30 License Qty: 1 CSI: 39296 Users: 1 CONCURRENT DEVICE DEPLOYMENT	1	1026.66	1026.66	GST
Partitioning Named User Multi Server Software Updates (Updates Subscription Service) - 2003/11/25 to 2003/05/30 License Qty: 1 CSI: 62778 Users: 256 NAMED USER MULTI SERVER FULL USE	1	10483.20	10483.20	GST
Oracle Database Enterprise Edition - Nonstandard User Product Support - 2003/11/25 to 2003/05/30 License Qty: 1 CSI: 3301459 Users: 16	1	1100.23	1100.23	GST
Partitioning - Concurrent Device Product Support - 2003/11/25 to 2003/05/30 License Qty: 1 CSI: 3301459 Users: 48	1	1215.33	1215.33	GST
Programmer Nonstandard User Product Support - 2003/11/25 to 2003/05/30 License Qty: 1 CSI: 34937 Users: 1 CONCURRENT DEVICE FULL USE	1	143.25	143.25	GST
Express Server - Concurrent Device Software Updates (Updates Subscription Service) - 2003/11/25 to 2003/05/30 License Qty: 1 CSI: 3301459 Users: 5 APPS SPECIFIC FULL USE	1	1502.47	1502.47	GST
Partitioning Nonstandard User Software Updates (Updates Subscription Service) - 2003/11/25 to 2003/05/30 License Qty: 1 CSI: 3301459 Users: 32 FULL USE	1	1530.98	1530.98	GST
CUSTOMER COPY/COPIE DU CLIENT			Invoice Total Tax Total	3334,121.32 521,285.45
TERMS: Net Due in 30 Days			PLEASE PAY THIS AMOUNT \$325,409.68	

a Control number 000001		2222	Void <input type="checkbox"/>	For Official Use Only OMB No. 1545-0008	
b Employer identification number fed0001		1 Wages, tips, other compensation \$10,000		2 Federal income tax withheld \$10,000	
c Employer's name, address, and ZIP code Oracle Corp 500 Oracle Parkway Redwood Shores Redwood City, CA 94065		3 Social security wages \$10,000		4 Social security tax withheld \$10,000	
d Employee's social security number 000-00-0000		5 Medicare wages and tips \$10,000		6 Medicare tax withheld \$10,000	
e Employee's first name and initial Incheol		7 Social security tips \$10,000		8 Allocated tips \$10,000	
Last name Kang		9 Advance EIC payment \$10,000		10 Dependent care benefits \$10,000	
500 Oracle Parkway Redwood Shores Redwood City, CA 94065		11 Nonqualified plans \$10,000		12a See instructions for box 12 \$10,000	
13 Union employer <input type="checkbox"/> Retiree plan <input checked="" type="checkbox"/> Third party SSI plan <input type="checkbox"/>		12b <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		12a_meaning 12b_meaning	
f Employee's address and ZIP code		14 Other 01_desc 02_desc 03_desc		12c <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 12d <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
15 State Employer's state ID number	16 State wages, tips, etc. \$10,000	17 State income tax \$10,000	18 Local wages, tips, etc. \$10,000	19 Local income tax \$10,000	20 Locality name 10,000
1111 yyyy	\$10,000	\$10,000	\$10,000	\$10,000	10,000

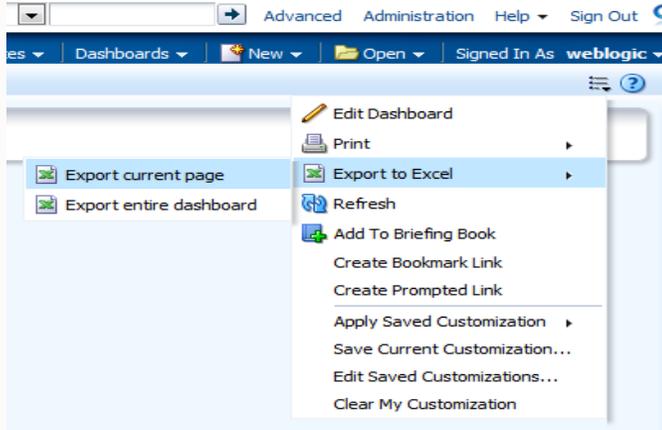
Wage and Tax



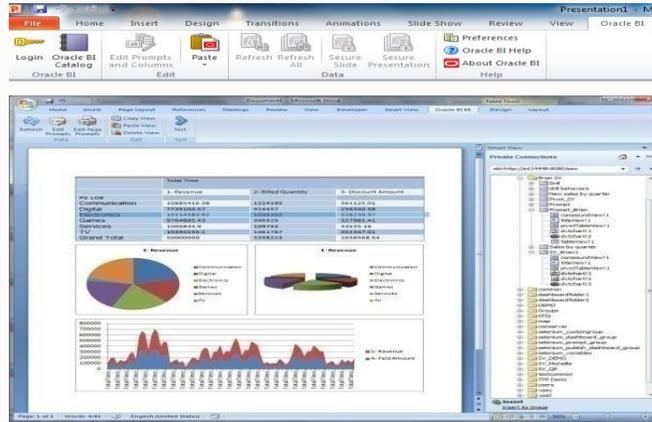
OAS平台：复杂式报表



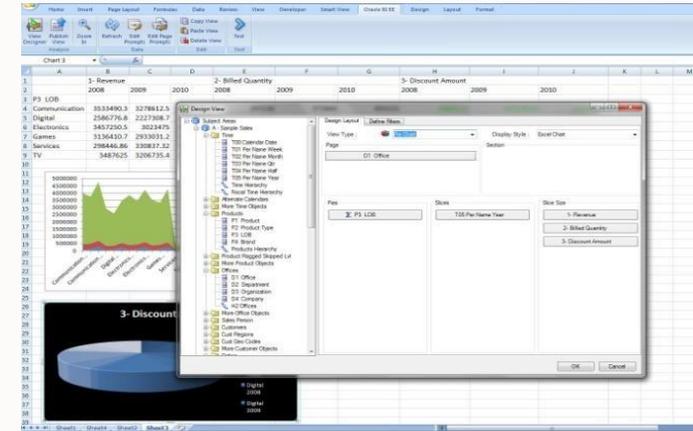
OAS平台：与Office无缝集成



OAS内容导出到Office



从OAS中获取内容到Office



Office中报表发布到OAS



OAS平台：权限管控

列

销售目标达成率
运行时间: 2010-10-26 8:33:01

选择信息展现形式: 数据透视表

	2008			2009			2010		
	实际完成	目标	%	实际完成	目标	%	实际完成	目标	%
Corporate To	6.99 千万	7.56 千万	92%	6.30 千万	6.66 千万	95%	7.71 千万	8.09 千万	95%
	5.72 千万	6.12 千万	93%	5.16 千万	5.71 千万	90%	6.62 千万	8.69 千万	76%
	3.79 千万	3.97 千万	95%	3.54 千万	3.61 千万	98%	4.18 千万	3.59 千万	116%
华东	2.19 千万	2.72 千万	81%	2.00 千万	2.41 千万	83%	2.45 千万	2.93 千万	83%
	2.21 千万	2.61 千万	85%	1.97 千万	2.36 千万	83%	2.50 千万	3.37 千万	74%
	1.07 千万	1.34 千万	80%	1.07 千万	1.25 千万	85%	1.34 千万	1.43 千万	94%
华北	2.66 千万	2.64 千万	101%	2.46 千万	2.50 千万	99%	2.95 千万	2.73 千万	108%
	2.39 千万	2.38 千万	101%	2.21 千万	2.30 千万	96%	2.78 千万	3.62 千万	77%
	1.40 千万	1.39 千万	101%	1.29 千万	1.24 千万	104%	1.50 千万	1.11 千万	134%
北京	1.49 千万	1.45 千万	103%	1.36 千万	1.40 千万	97%	1.64 千万	1.54 千万	106%
	1.28 千万	1.27 千万	101%	1.03 千万	1.08 千万	95%	1.39 千万	1.78 千万	78%
	.77 千万	.80 千万	96%	.68 千万	.68 千万	100%	.85 千万	.62 千万	138%
天津	1.18 千万	1.20 千万	98%	1.10 千万	1.10 千万	100%	1.31 千万	1.20 千万	110%
	1.12 千万	1.11 千万	100%	1.18 千万	1.22 千万	97%	1.38 千万	1.84 千万	75%
	.63 千万	.59 千万	108%	.61 千万	.56 千万	108%	.64 千万	.50 千万	130%
华西	2.14 千万	2.20 千万	97%	1.84 千万	1.75 千万	105%	2.31 千万	2.42 千万	95%
	1.12 千万	1.14 千万	99%	.98 千万	1.05 千万	94%	1.34 千万	1.70 千万	79%
	1.31 千万	1.25 千万	105%	1.18 千万	1.11 千万	106%	1.34 千万	1.05 千万	128%
合计	16.50 千万	17.65 千万	93%	15.00 千万	15.98 千万	94%	18.50 千万	20.37 千万	91%

行

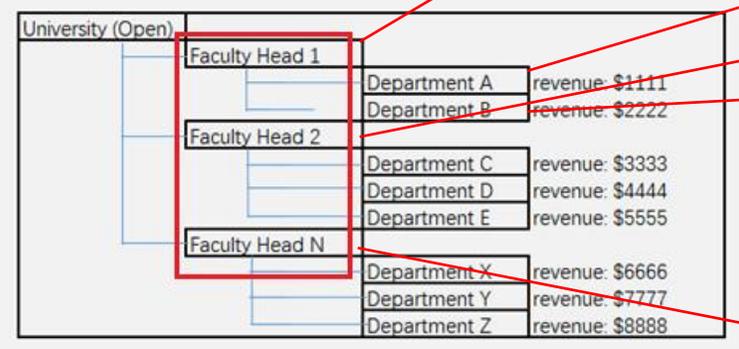


OAS平台：权限管控举例

分公司级别

2 部门级别

权限控制需求



1

Users	Faculty Head	Department	Sales Revene
USER_HEAD1	Faculty Head 1	Department A	1,111
		Department B	2,222
	Grand Total	Grand Total	39,996

Users	Faculty Head	Department	Sales Revene
USER_HEAD2	Faculty Head 2	Department C	3,333
		Department D	4,444
		Department E	5,555
	Grand Total	Grand Total	39,996

Users	Faculty Head	Department	Sales Revene
USER_HEADN	Faculty Head N	Department X	6,666
		Department Y	7,777
		Department Z	8,888
	Grand Total	Grand Total	39,996

Users	Faculty Head	Department	Sales Revene
USER_HEAD12	Faculty Head 1	Department A	1,111
		Department B	2,222
	Faculty Head 2	Department C	3,333
		Department D	4,444
		Department E	5,555
Grand Total	Grand Total	39,996	

Users	Faculty Head	Department	Sales Revene
USER_DEPA	Faculty Head 1	Department A	1,111
		Grand Total	39,996

Users	Faculty Head	Department	Sales Revene
USER_DEPB	Faculty Head 1	Department B	2,222
		Grand Total	39,996

4 部门变化前

Users	Faculty Head	Department	Sales Revene	Teacher Salary
USER_DEPA	Faculty Head 1	Department A	1,111	23,000
		Grand Total	39,996	212,000

部门变化后

Users	Faculty Head	Department	Sales Revene	Teacher Salary
USER_DEPA	Faculty Head 2	Department C	3,333	25,000
		Grand Total	39,996	212,000

3 跨多个分公司



OAS平台：后台监控能力

1 **Usage Overview** Query Analysis Sessions Analysis

Overview | User Activity | Time Trends | Query Details | Top Usage | Cache Hits | BIP Activity Report

● Usage Tracking [Return to Main Index page](#)

2 Usage Overview Query Analysis **Sessions Analysis**

By User | Sessions Trend | By Hour | By Minute | Sessions Duration

● Session Overview by User

3 Usage Overview **Query Analysis** Sessions Analysis

Logical Queries | DB SQL Monitor | Physical SQLs | Physical From Clause | Mapped Source Tracer | Open Sessions and Requests



OAS平台：大数据对接能力

1 大数据云（BDS）集群

集群节点列表

① 要使用公共 SSH 密钥访问专用节点，需要设置堡垒主机（也称为跳板机）。
[了解有关设置堡垒主机的更多信息](#)

名称	状态	节点类型	配置	IP 地址	创建时间
bdsammn0	● 活动	Master	VM.Standard2.4	10.0.0.3	2020年6月23日周二 UTC 09:55:20
bdsammun0	● 活动	Utility	VM.Standard2.4	10.0.0.2	2020年6月23日周二 UTC 09:55:20
bdsammwn0	● 活动	Worker	VM.Standard2.4	10.0.0.4	2020年6月23日周二 UTC 09:55:20
bdsammwn1	● 活动	Worker	VM.Standard2.4	10.0.0.6	2020年6月23日周二 UTC 09:55:20
bdsammwn2	● 活动	Worker	VM.Standard2.4	10.0.0.5	2020年6月23日周二 UTC 09:55:20
bdsammwn9	● 活动	Cloud SQL	VM.Standard2.4	10.0.0.7	2020年6月23日周二 UTC 11:35:53
bdsammwn3	● 活动	Worker	VM.Standard2.4	10.0.0.8	2020年6月23日周二 UTC 12:47:18

2 Hive/Impala公共IP

创建预留的公共 IP

名称	状态	预留的公共 IP	专用 IP	VNIC	创建时间
publicip20200629120952	● 已分配	140.238.26.253	10.0.0.4	Impala	2020年6月29日周一 UTC 12:09:52
publicip20200624031417	● 已分配	193.122.102.125	10.0.0.2	Hive	2020年6月24日周三 UTC 03:14:17

3 Hive/Impala OAS端连接

Hi	Im
Apache Hive 数据库	Cloudera Impala 数据库
* 连接名称: BDS_Hive	* 连接名称: BDS_Impala
说明:	说明:
验证类型: 基本	验证类型: 基本
* 主机: 193.122.102.125	* 主机: 140.238.26.253
* 端口: 10000	* 端口: 21050
* 用户名: hive	* 用户名: Cloudera
* 口令: ****	* 口令:
<input checked="" type="checkbox"/> 启用 SSL	<input type="checkbox"/> 启用 SSL



OAS 平台：能力列表



自助分析

多数据源

插件扩展

丰富图形

项目协同

数据加工

灵活简单

数据联动

结果共享



集中治理

复杂报表

企业模型

丰富图形

地图

平台审计

大数据集成

权限管控

平台扩展

Office集成

Essbase链接

移动支持



增强分析

机器学习

一键智能

智能问答

数据丰富

聚类异常

趋势预测

自动解释

模型训练

OAS平台：机器学习-组件

» DF_Sales_Demo_Trans 运行数据流 保存

显示标签 100%

添加数据 联接 联合行 筛选器 聚合 保存数据 创建 Essba... 多维数据集

添加列 选择列 重命名列 转换列 合并列 拆分列 收集器

组 分支 累积值 时间序列预测 分析情感

训练数字预测 训练多分类器 训练二进制分类器 训练聚类 应用模型

保存数据集

名称: Sales_Trans

说明:

将数据保存到: 数据库连接

连接: 选择连接

表: Sales_Trans

运行时: 将新数据添加到现有数据

运行时: 替换现有数据

运行时: 将新数据添加到现有数据

ab 负责人	ab 店铺	ab 平台	ab 购买力
	官网SR	官网	<= 1
	官网SR	官网	<= 1
	官网SR	官网	<= 1
	官网SR	官网	<= 1
	官网SR	官网	<= 1
	官网SR	官网	> 1至 2
	官网SR	官网	> 1至 2
	官网SR	官网	<= 1
	官网SR	官网	<= 1
	官网SR	官网	<= 1
	官网SR	官网	<= 1
	官网SR	官网	<= 1

OAS平台：机器学习-模型训练与应用

»» RB_WF_RF_养老支出预测

数据

数据流步骤

- 添加数据
- 联接
- 联合行
- 筛选器
- 聚合
- 保存数据集
- 创建 Essbase 多维数据...
- 添加列
- 选择列
- 重命名列
- 转换列
- 合并列
- 拆分列
- 收集器
- 组
- 分支
- 累积值
- 时间序列预测

养老待遇... → 应用模型 → 选择列 → 保存数据

应用模型

模型 RB_MDL_YANGLAO_FORECAST_RF

▶ 输出

◀ 输入

模型	类型	输入
区划	varchar	区划
单位编号	varchar	单位编号
参加工作时间	date	参加工作时间
离退休时间	date	离退休时间

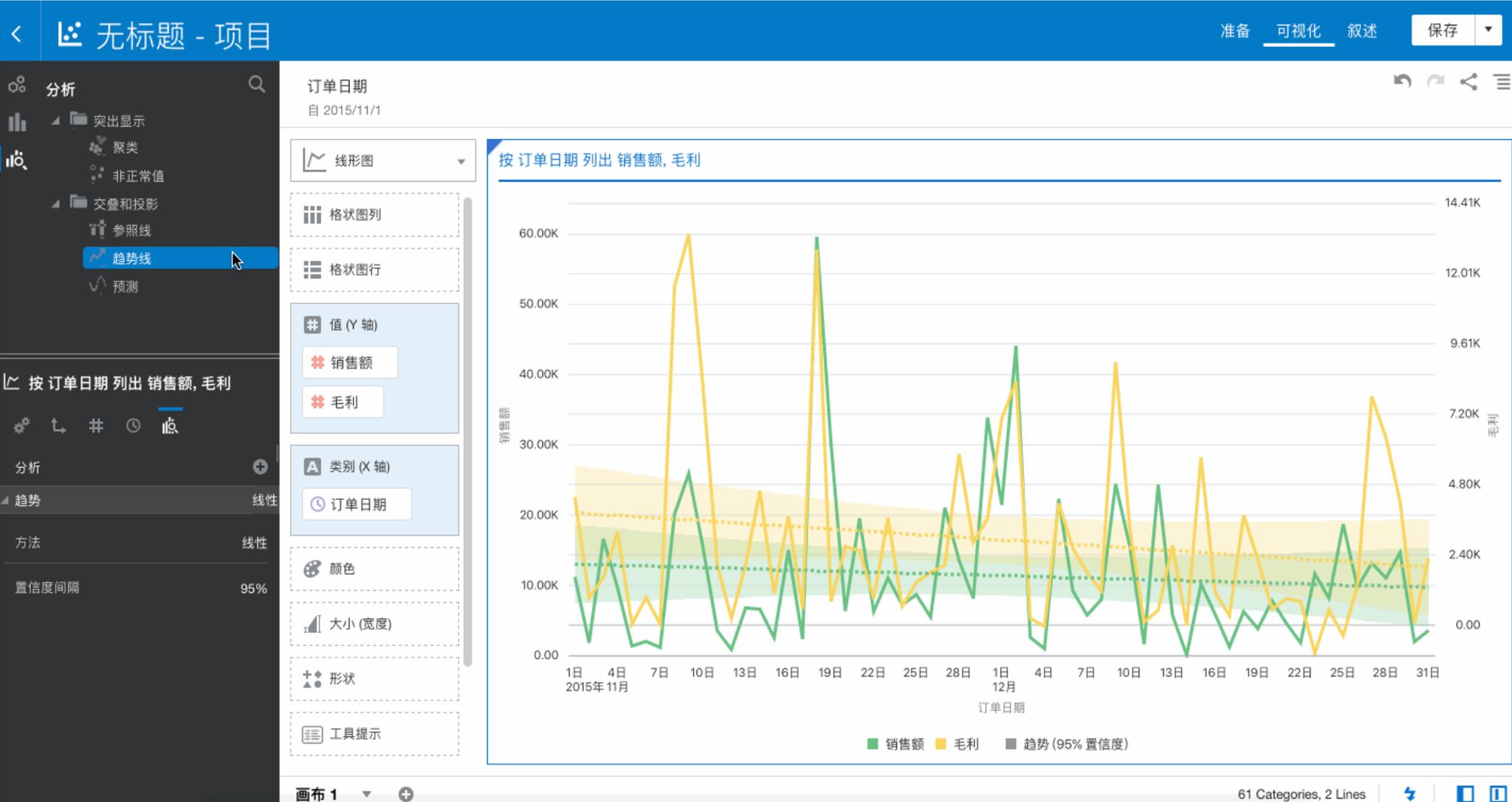
ab 区划	ab 单位编号	参加工作时间	离退休时间	99 PredictedValue	99 PredictionConfide...	ab PredictionGroup
10004	0004123499	1984-05-01	2011-01-12	2755.63171641791	768.891207304026	单位编号 NOT IN ['10700124604', '4123509', '10700227406', '10703123502', '107001253...
10004	0004123499	1981-01-01	2011-01-13	2755.63171641791	768.891207304026	单位编号 NOT IN ['10700124604', '4123509', '10700227406', '10703123502', '107001253...
10002	10703123502	1976-11-01	2011-01-14	1820.1322	459.853047841547	单位编号 IN ['10700125288', '4123509', '10703123502', '10700227406', '10700223556'] A...
10002	10703123502	1969-04-01	2011-01-14	1820.1322	459.853047841547	单位编号 IN ['10700125288', '4123509', '10703123502', '10700227406', '10700223556'] A...
10002	10703123512	1986-01-01	2011-01-14	2755.63171641791	768.891207304026	单位编号 NOT IN ['10700124604', '4123509', '10700227406', '10703123502', '107001253...
10004	10700227406	1993-02-01	2011-01-17	1820.1322	459.853047841547	单位编号 IN ['10700125288', '4123509', '10703123502', '10700227406', '10700223556'] A...
10002	10703123502	1966-10-01	2011-01-17	1820.1322	459.853047841547	单位编号 IN ['10700125288', '4123509', '10703123502', '10700227406', '10700223556'] A...
10002	10703123502	1975-06-01	2011-01-17	1820.1322	459.853047841547	单位编号 IN ['10700125288', '4123509', '10703123502', '10700227406', '10700223556'] A...
10002	10703123502	1976-10-01	2011-01-17	1820.1322	459.853047841547	单位编号 IN ['10700125288', '4123509', '10703123502', '10700227406', '10700223556'] A...
10002	10703123502	1987-01-01	2011-01-21	1820.1322	459.853047841547	单位编号 IN ['10700125288', '4123509', '10703123502', '10700227406', '10700223556'] A...
10001	10700125288	1980-12-01	2011-01-24	2869.68031674208	4014.04129332722	区划 IN ['10001'];参加工作时间 NOT IN ['1955-01-01', '1966-02-01', '1959-12-01', '1950-0...
10001	10700125288	1978-08-01	2011-01-24	2869.68031674208	4014.04129332722	区划 IN ['10001'];参加工作时间 NOT IN ['1955-01-01', '1966-02-01', '1959-12-01', '1950-0...

数据集 连接 数据流 序列 数据复制

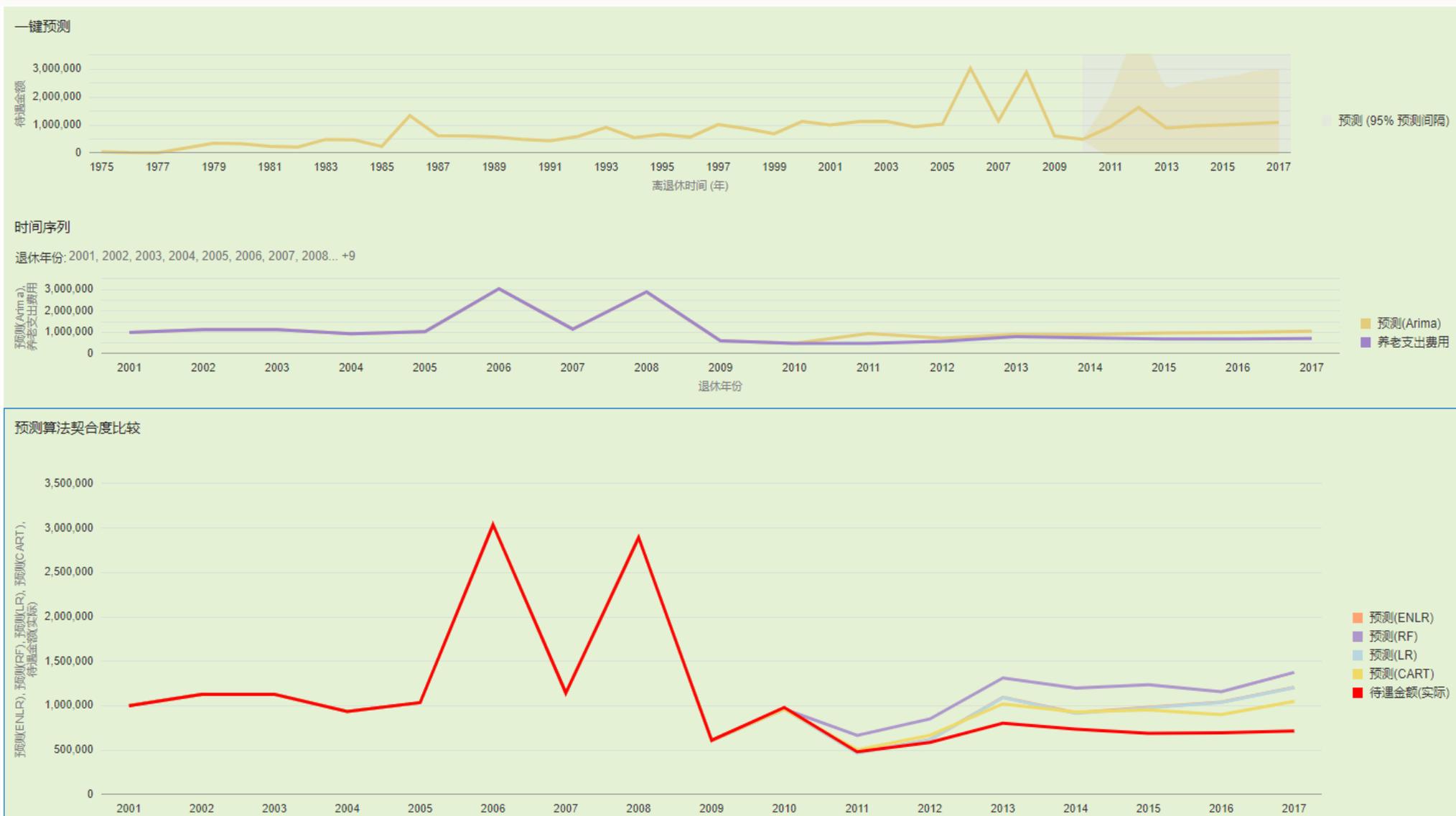
类型	名称
»»»	RB_WF_RF_养老支出预测
»»»	RB_WF_ENLR_养老支出训练模型
»»»	RB_WF_TS_养老支出预测
»»»	RB_WF_CART_养老支出训练模型
»»»	RB_WF_LR_养老支出训练模型
»»»	RB_WF_ENLR_养老支出预测
»»»	RB_WF_CART_养老支出预测
»»»	RB_WF_LR_养老支出预测
»»»	RB_WF_RF_养老支出训练模型



OAS平台：机器学习-一键预测



OAS平台：机器学习-预测

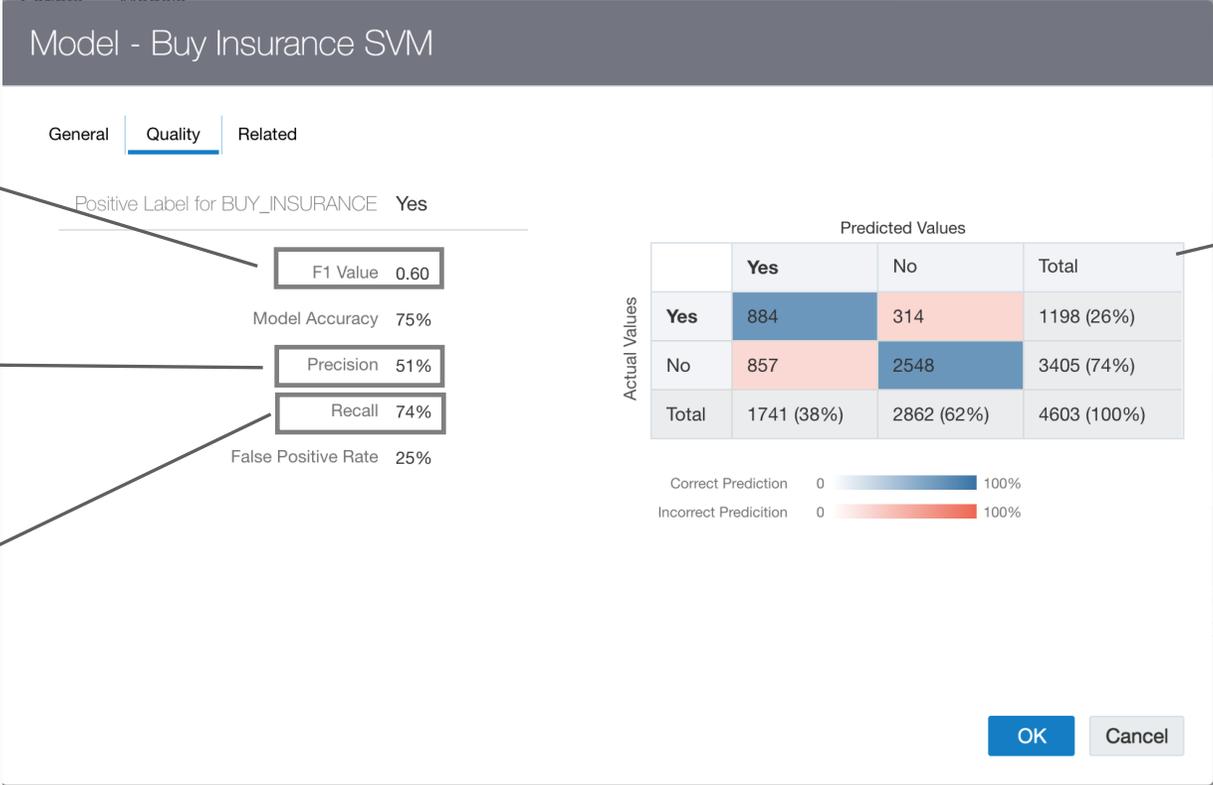


OAS平台：机器学习-模型评估

F1值给出了我们的整体准确性，以及预测结果的好坏
($2 * ((\text{精确} * \text{召回}) / (\text{精确} + \text{召回}))$)

精度给出了所有预测值正确的百分比，例如所有预测值是51%，实际是 (884/1741 = 0.51)

召回 (又称灵敏度) 为我们提供了正确预测值的百分比。例如所有实际是的模型可以预测74% (884/1198 = 0.74)



混淆矩阵按类显示正确和错误预测的数量



OAS平台：智能问答

🏠 主页 创建 ☰

x | I

搜索结果包含

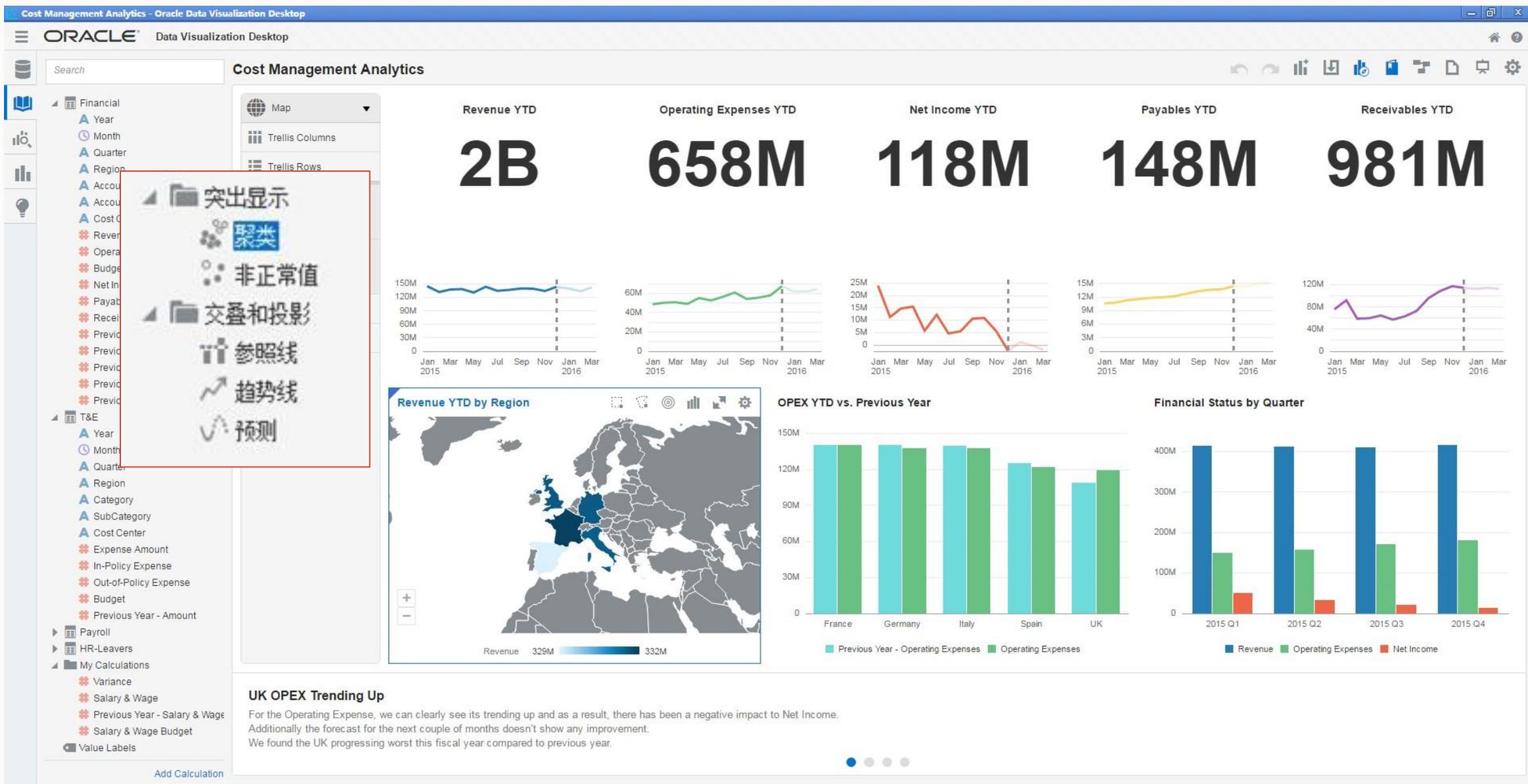
🔍 "x"

正在加载...

更新时间: 几分钟前 产品促销数据 文件	更新时间: 几分钟前 GanttChart 文件	更新时间: 几天前 MANUFACTURING 文件	更新时间: 几天前 ManufacturingInfo_R1 文件
更新时间: 几天前 MachineDetailInfo 文件		更新时间: 2019年06月28日 Sample Order Lines-CN 文件	更新时间: 2019年05月31日 F_REVENUE_REVIEW 文件
更新时间: 2019年05月31日 Top Grossing Movies 文件	Manufacturing Production line 项目	Revenue and Cost 项目	Sales Analysis 项目
提示: 只需将您的文件拖放到			AZ-Finance 项目
			连接到数据



OAS平台：一键智能，聚类异常



OAS平台：数据智能丰富

Preparation Script

- ▶ Add CustomerAccount Details
Uploaded from CustomerAccount Details...
- ## Obfuscate Update
Obfuscate First 12 Digits of cnumber
- 📅 Extract Date Part
Extract Year from birthdate
- 📄 Extract Regex
Extract Parts_after_Part_1 from stre...
- 💎 **Enrichment Insert**
Enrich city with Population
- 🔗 Concatenate Columns
Concatenate firstname and lastname ...
- 💎 Enrichment Insert
Enrich zip with County
- 📊 Results

Apply Script

Enrichment Insert - From Recommendation •
Edit

Formatted data ▼

Create Project

A city	A city_Population	A state	A zip	A country	A email	A cnumber
Douglasville	32807	GA	30134	US	DavidA@inson@mail.com	#####4782
Pittsburgh	222	PA	15201	US		#####3975
Houston	924	TX	77001	US		#####0836
Washington	109	DC	20001	US		#####6962
Honolulu	8	HI	96801	US		#####2850
Sherman	4	TX	75001	US		#####1586
Cedar Rapids	2	IA	52401	US		#####0737
Macon	4	GA	31201	US		#####6277
Springfield	1	MA	01101	US		#####1891
Conroe	1	TX	77381	US		#####1709
Fargo	0	ND	58101	US		#####0134
Rochester	8	NY	14601	US		#####9027
New York	2	NY	10001	US		#####2765
Nation	1	NY	10001	US		#####1088
Moscow	9	AK	99501	US		#####4945
Parmersville	8	OH	44861	US		#####0834
Graham	8865	TX	76046	US	MaryjaneLClawson@mail.com	#####0019
Phoenix	1563025	AZ	85033	US	KatherineEHenry@hotmail.com	#####6478
Brigham City	18752	UT	83402	US	ShellyPJohnson@google.com	#####3659
Harrisburg	49081	PA	17102	US	DollieLStafford@google.com	#####7011
New York	8175133	NY	10007	US	AndrewPCleveland@yahoo.com	#####6873

Recommendations (87)

All Columns
Select a column to filter list

- 🔗 Concatenate lastname and firstname to last_first_name
- 🔗 Concatenate firstname and lastname to first_last_name
- 💎 Enrich zip with City
- 💎 Enrich zip with Lat
- 💎 Enrich zip with Lon
- 💎 Enrich zip with State
- 💎 Enrich country with capital
- 💎 Enrich country with square_km

Recommendations (87)

All Columns
Select a column to filter list

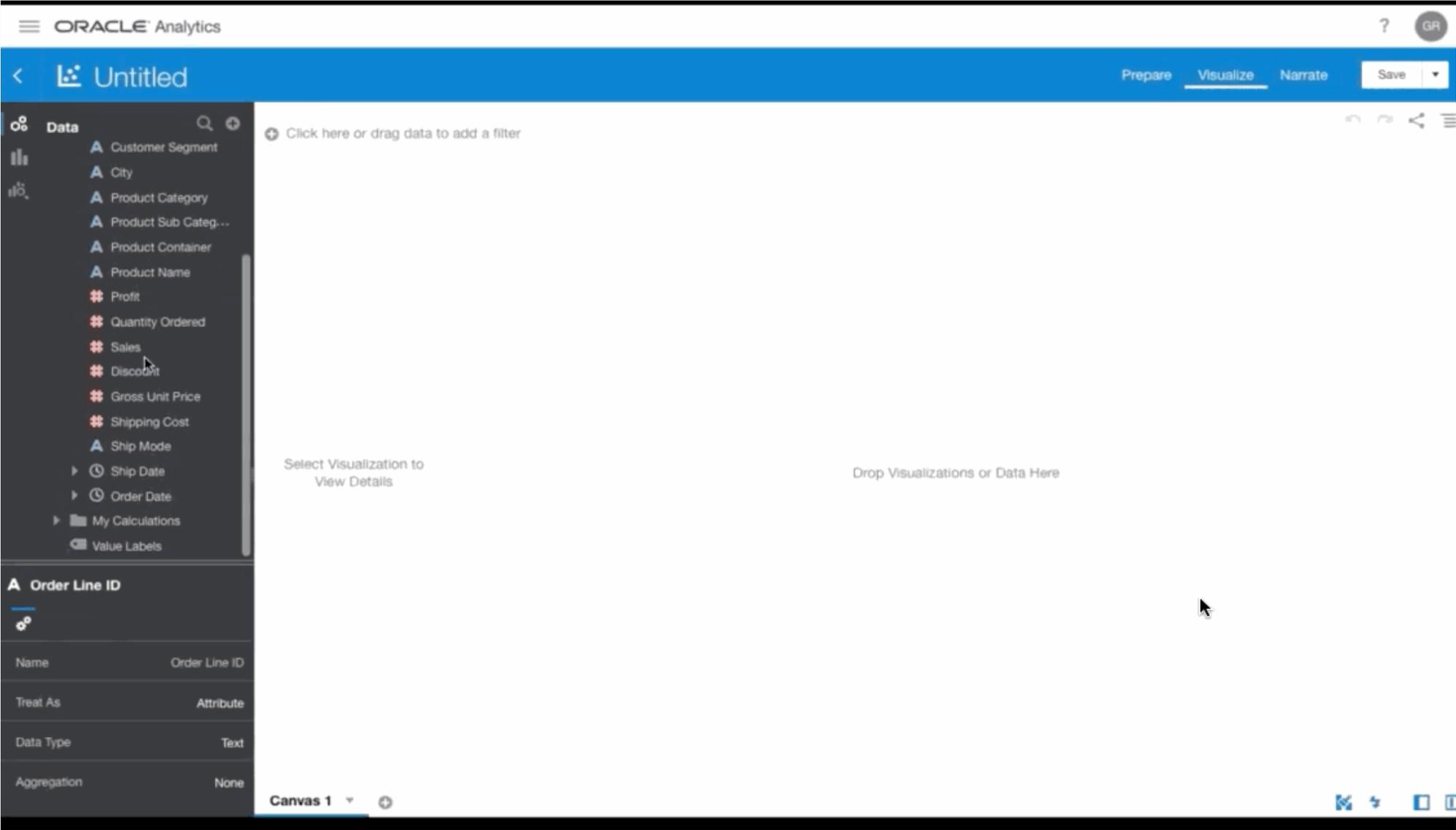
- 💎 Enrich country with population
- 💎 Enrich city with Country
- 💎 Enrich city with Province
- 💎 Enrich city with Jurisdiction
- 💎 Enrich city with Population
- 💎 Enrich city with Elevation_Meters
- 💎 Enrich city with Timezone

Select data or visual to display properties

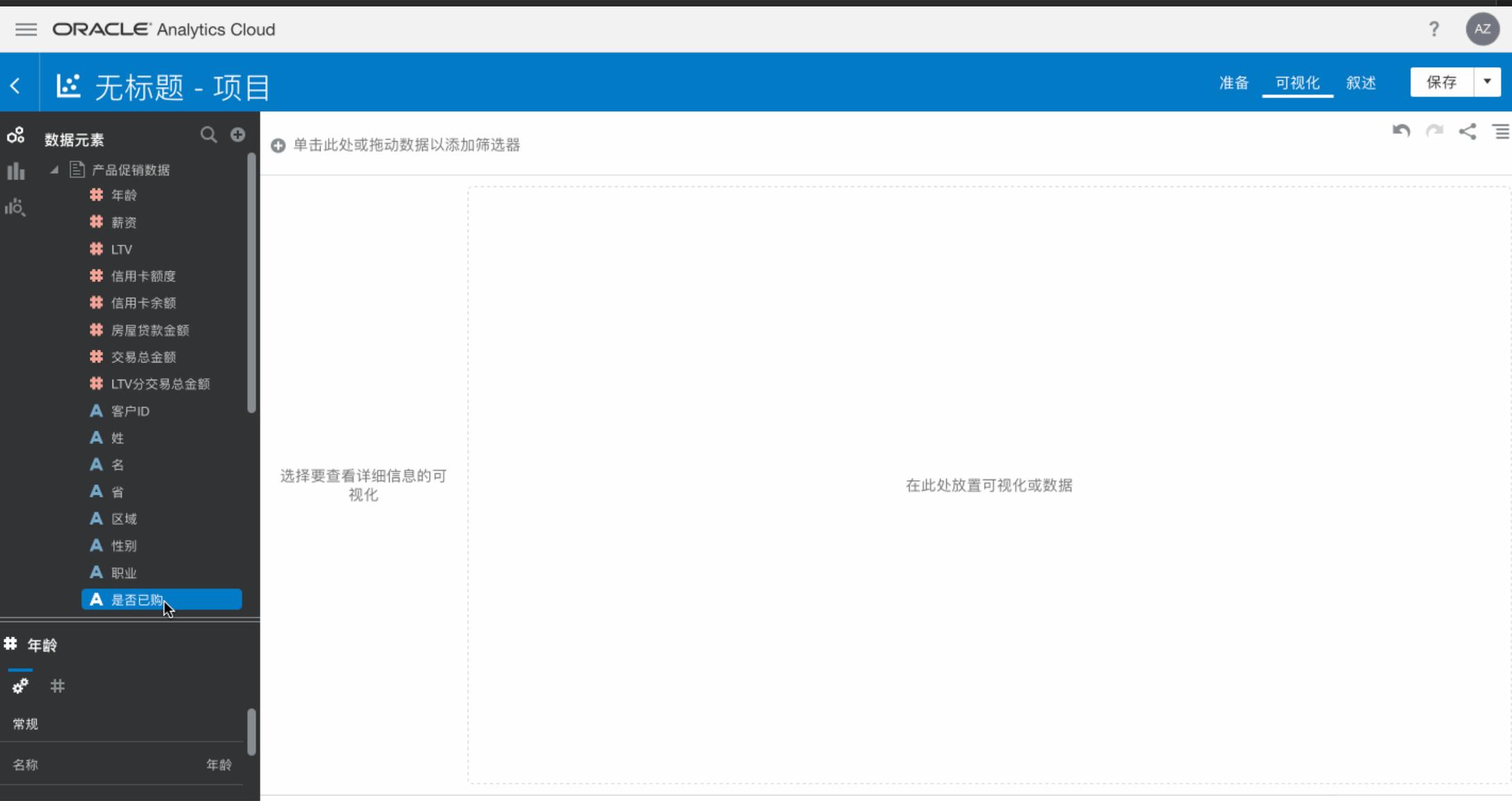
Order Date (8)
▼

- 📅 从 Order Date 提取星期几
- 📅 从 Order Date 提取一月中的第几天
- 📅 从 Order Date 提取日
- 📅 从 Order Date 提取一年中的第几天
- 📅 从 Order Date 提取第几月
- 📅 从 Order Date 提取第几季度
- 📅 从 Order Date 提取季度
- 📅 从 Order Date 提取年

OAS平台：自然语言生成

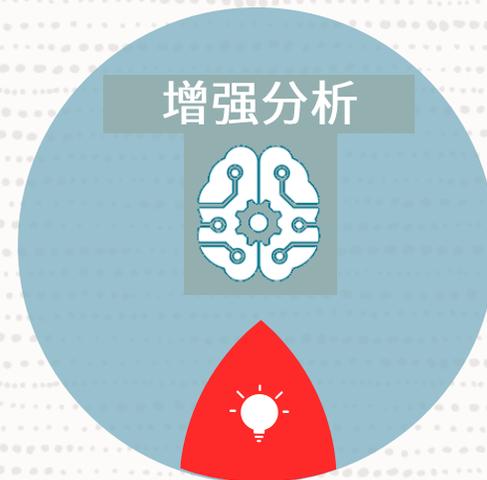


OAS平台：一键解释



总结

- 自助分析能力
- 集中治理能力
- 增强分析能力



ORACLE