



ORACLE

Oracle Analytics

Global Leaders - February 2021

Benjamin Arnulf

Senior Director,
Product Strategy, Analytics



Safe Harbor

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

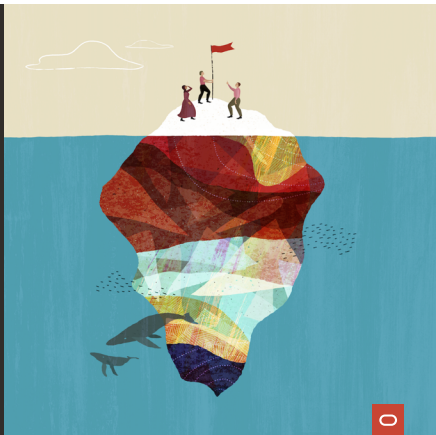
Statements in this presentation relating to Oracle's future plans, expectations, beliefs, intentions and prospects are "forward-looking statements" and are subject to material risks and uncertainties. A detailed discussion of these factors and other risks that affect our business is contained in Oracle's Securities and Exchange Commission (SEC) filings, including our most recent reports on Form 10-K and Form 10-Q under the heading "Risk Factors." These filings are available on the SEC's website or on Oracle's website at <http://www.oracle.com/investor>. All information in this presentation is current as of September 2019 and Oracle undertakes no duty to update any statement in light of new information or future events.



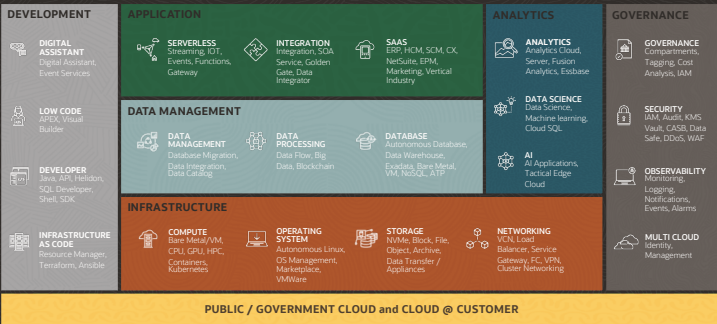
Benjamin Arnulf

Senior Director
Product Strategy
Oracle Analytics

Oracle Analytics Strategy



Oracle AI, Data, Analytics and Cloud Services



Oracle Analytics Vision



The quickest path for better **decisions and actions** with AI & Analytics

Simplify & Unify

New Analytics Products



Oracle
Analytics
Cloud

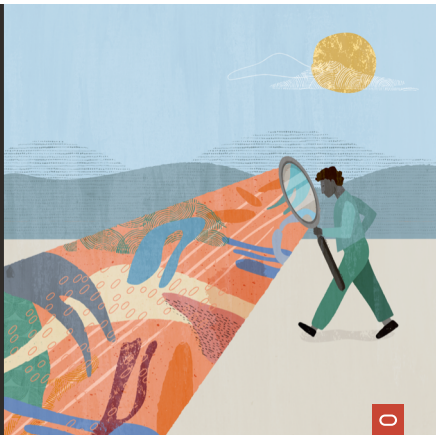


Oracle
Analytics
Server



Oracle
Fusion Analytics
Warehouse

Oracle Analytics Products



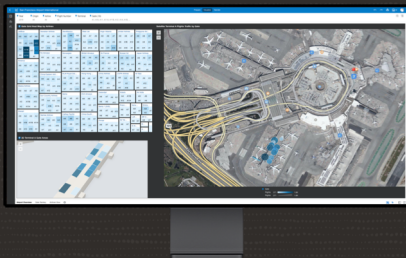
Oracle Analytics Cloud

- Augmented Analytics Cloud Platform.
- Data Visualization, Data Preparation, Data Enrichment, Data Flow, Machine Learning and Artificial Intelligence.
- Automated Forecast and *Insights*.
- NLP, NLG, Mobile enabled.
- Self Upgrading, Patching and Securing.



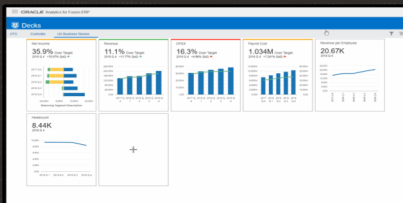
Oracle Analytics Server

- Modern analytics platform **on-premises**.
- Supports hybrid configurations.
- OBIEE customers with active support agreement can **upgrade at no cost**.
- Machine Learning, AI & Data Visualization.
- Yearly release refresh.
- Available on Windows & Linux.



Oracle Fusion Analytics

- Fully **Managed** Augmented Analytics.
- Autonomous Data Warehouse.
- Key Performance Indicator Catalog & Targets.
- Data Pipeline, Data Model & Data Visualization and Advanced analytics.
- For **Fusion ERP, HCM, SCM, CX, NetSuite**.



Oracle Analytics Platform



10



Oracle Analytics Platform

SOURCE



INTEGRATE



Real-time connection



Data Integration



Object Storage

STRUCTURE



Autonomous Data Warehouse

ANALYZE



Oracle Analytics



Mobile Analytics

CONSUME



LOB



Data Scientists



Analysts



Developers

Oracle Autonomous Database

Data Sources

Applications

ORACLE Fusion Applications
ORACLE Siebel
ORACLE PeopleSoft
Oracle EBS
Oracle NetSuite
SAP
Microsoft Dynamics

Databases

MySQL
NoSQL

Files

X
JSON
CSV

Streaming Services

Amazon Kinesis
Kafka

Data Lake

OCI Object Storage
Amazon S3
Microsoft Azure Blob Storage



Data
Insights



Catalog



Machine
Learning



Business
Models



Data Load &
Transforms



Graph



APEX: Data-
Driven App Dev

Visualization & Development

Application
Express



Oracle ML
Notebook



Oracle
Analytics Cloud



IDEs



Spreadsheets



3rd Party BI
Tools

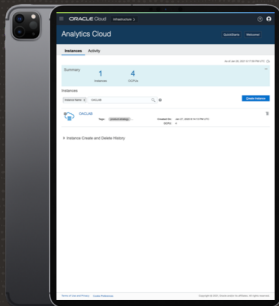


New Analytics Platform

Governed Analytics		Self-Service Analytics		Augmented Analytics	
Dashboards	Pixel-Perfect Reports	Data Preparation	Data Visualization	Voice & Chatbot	Natural Language
Semantic Models	Query Federation	Storytelling	Collaboration	Data Enrichment	1-Click Explain
Role-Based Access Control	Excel Integration	What-If Analysis	Mobile	Adaptive & Personalized	Machine Learning
Public / Government Cloud Cloud @ Customer On-Premises Third Party Cloud					

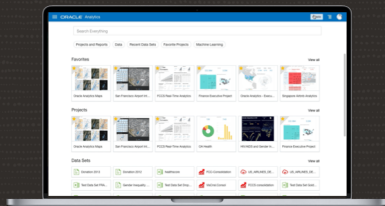
Autonomous Analytics

- Autonomous Analytics!
- Analytics at Scale
- Easy to setup
- 1-Click management
- Data Gateway



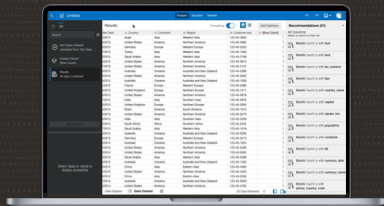
Open Connectivity

- Fully integrated with **Autonomous Database**
- Connectors to various data sources including: Amazon Redshift, Fusion Apps, EPM Cloud, Microsoft SQL Server, Snowflake, Oracle Database and more!

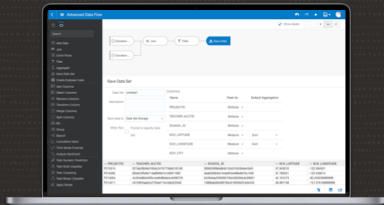


Data Preparation

- Use **Data Preparation** to prepare your data, metadata, rename and transform column type.
- Use **Intelligent Data Enrichment** to enrich your data with external and secure data such as country currency, capital, population...

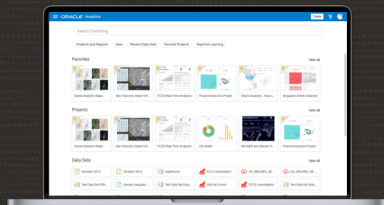


- Use Data Flow to **ingest, clean** and **transform** easily your data from various sources and cloud!
- Group, split, join, union, merge and save data into a database or a cube.



Unified Analytics

- Interface with **Augmented Analytics**.
- Analytics with **NLP** and **NLG**.
- Quickly search for projects, dashboards, datasets, machine learning models and more!



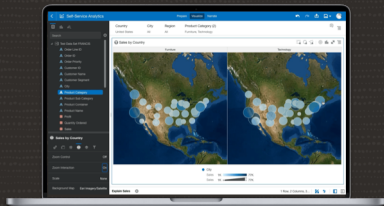
Natural Language

- Query Data directly using Natural Language **Processing**.
- No Query or SQL needed.
- Description of the visualization using Natural Language **Generation**.
- Augmented Analytics.



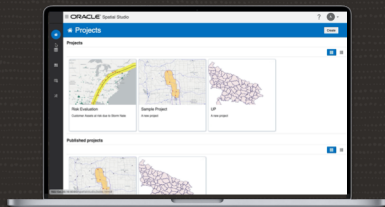
Self-Service

- Self-Service Analytics.
- 1-click to forecast for **predictive analytics**.
- **What-if Scenarios**.
- Multiple data sources join.
- Data Story Telling.



Spatial Analytics

- Oracle Analytics Spatial Studio for advanced mapping and **spatial visualization**.
- Create interactive maps and perform spatial analysis on business data.

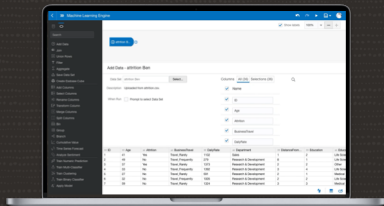


Oracle Analytics AI & Machine Learning



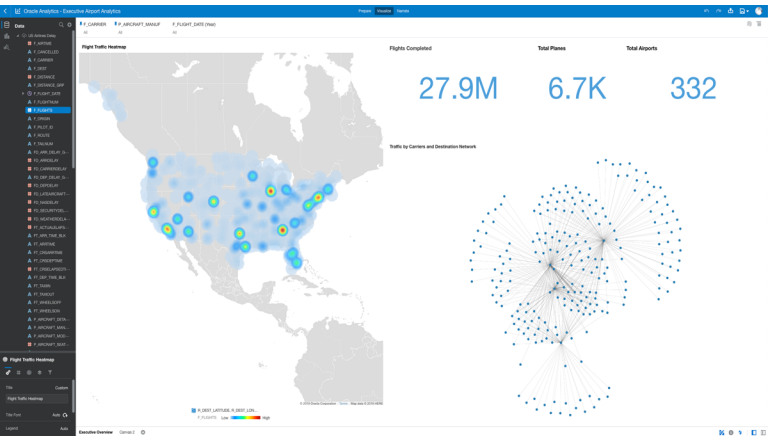
Machine Learning

- Data Flow to train machine learning models.
- Linear Regression, Random Forest, CART, K-Means Clustering and more algorithms.
- Machine Learning models for Predictive Analytics.



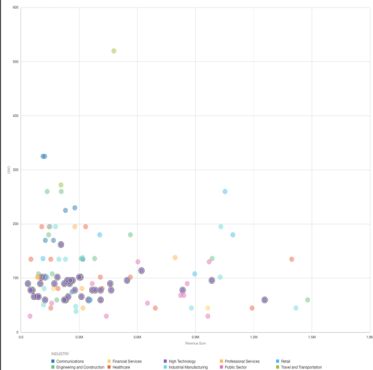
Oracle Analytics Data Visualization



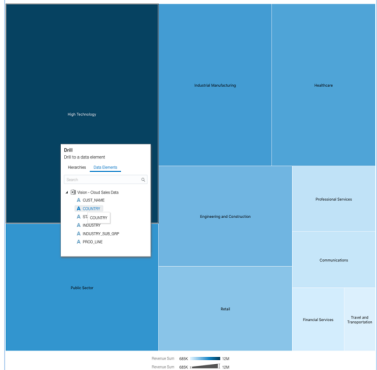


Click here or drag data to add a filter

Revenue Sum, USD by CUST_NAME, INDUSTRY



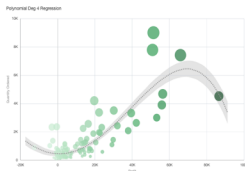
Revenue Sum by INDUSTRY



Product Category	Order Year	City
all	all	all

Regression Trendings on Profit x City Ordered. Dots on the scatter represent Cities.

This feature is invoked by a right click menu choice. It can be edited in the properties menu of each visualization. **It does not require R to be installed on your desktop**





1 Star

55

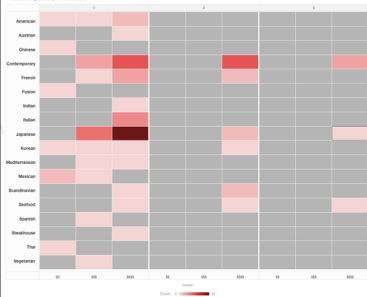
2 Stars

14

3 Stars

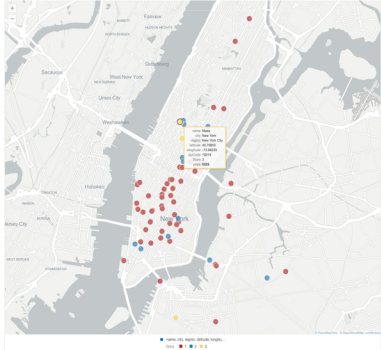
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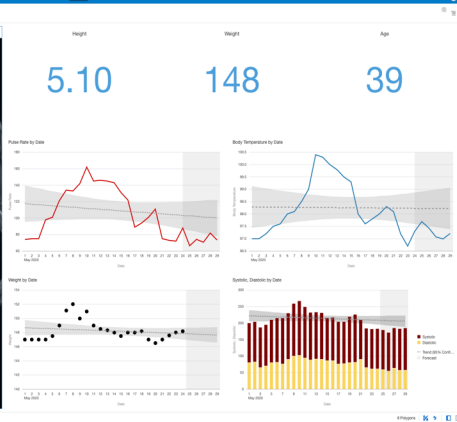
Restaurants by Cuisine, Price and Stars



Author: Benjamin Ahrndt | Dataset: Kaggle - <https://www.kaggle.com/datasets/jessywang2019/michelin-restaurants-new-york> | Jupyter: Wang

Interactive Map of Restaurants in the Michelin Guide







Total Number of Cases

5,000

Case ID	Country	Patient Name	Date Posted	Cost
21008	Kenya	Verninah	01/06/2020	\$704

Case ID	Country	Patient Name	Date Posted	Cost
21008	Kenya	Veneriah	01/08/2020	\$708

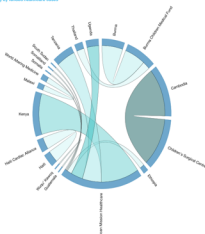
What stands out in this situation is that two Countries account for more than half of the total. There is a dominant group of Countries. This group is composed of two Countries: Cambodia/Kenya, with 27.11% 23.23%, respectively.

Combined, the 11 other Countries make up the rest of the list, accounting for 48.66% of the total.



Medical Partner

- African Mission Healthcare
- East Cardiac Alliance
- Byrne Children Medical Fund
- World Altering Medicine
- Children's Survival Center
- Waves4Mission



Number of Cases: 0 29
Cost: \$200 \$775K

The chart displays the estimated number of people in the United States with a bachelor's degree from 2007 to 2022. The y-axis represents the number of people in millions, ranging from 0 to 25.0. The x-axis shows the years from 2007 to 2022. The blue line represents the estimated number of people, which starts at approximately 18.5 million in 2007, rises to a peak of about 22.5 million in 2008, and then fluctuates with an overall upward trend, reaching approximately 23.5 million by 2022. A shaded gray area represents the confidence interval, and a dashed line indicates the trend.

Year	Estimated Number of People (Millions)
2007	18.5
2008	22.5
2009	21.5
2010	21.0
2011	21.5
2012	21.0
2013	21.5
2014	21.0
2015	21.5
2016	21.0
2017	21.5
2018	21.0
2019	21.5
2020	21.0
2021	21.5
2022	23.5



Commodity price increase and disparity across India

1.7x

Rice

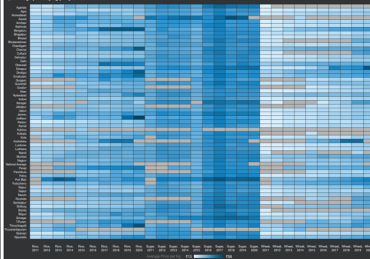
1.2x

Sugar

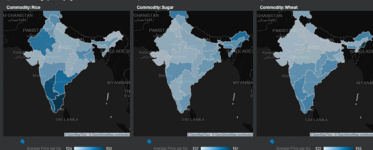
1.6x

Wheat

Average price by kg per year and market in India



Latest average price by kg and state

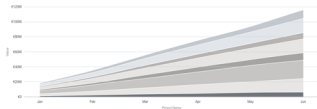


Average Price volatility by kg per Commodity and Year



Source: World Food Programme - Food Price Data Source: Period: from January 2017 to July 2020. Data Visualization: Created with Tableau Analytics Cloud. Author: Sourav Singh

FCC EPM Real-time Consolidation Analytics for Europe Entity - Analysis of net income by scenarios, Revenue, Revenue trend, Domestic versus International Revenue, Total Assets versus Total Liabilities, and Payable versus Receivable trend including year over year variance. The period analyzed is Jan-Jun FY26.



The figure consists of four line graphs arranged in a 2x2 grid, comparing actual and planned revenue for domestic and international markets. The x-axis for all graphs represents time from January FY20 to June FY20. The y-axis represents revenue in million Japanese Yen (¥100 million).

- Top Left Graph (Domestic Actual):** Shows actual revenue increasing from approximately ¥1,480 million in January to ¥1,550 million in June. The planned revenue is a constant dashed line at approximately ¥1,500 million.
- Top Right Graph (Domestic Plan):** Shows planned revenue increasing from approximately ¥1,480 million in January to ¥1,550 million in June. The actual revenue is a constant solid line at approximately ¥1,500 million.
- Bottom Left Graph (International Actual):** Shows actual revenue increasing from approximately ¥2,800 million in January to ¥3,800 million in June. The planned revenue is a constant dashed line at approximately ¥3,500 million.
- Bottom Right Graph (International Plan):** Shows planned revenue increasing from approximately ¥2,800 million in January to ¥3,800 million in June. The actual revenue is a constant solid line at approximately ¥3,500 million.

Legend:
 ○ Domestic actual revenue
 □ Domestic plan revenue
 ○ International actual revenue
 □ International plan revenue



		F702												
		Actual				Plan				Actual				
YTD	Actual	Plan	Variance	% Diff	YTD	Actual	Plan	Variance	% Diff	YTD	Actual	Plan	Variance	% Diff
0000	Account Detail	Entity Name												
0001	Revenue - Domestic	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500	52,450	50,000	2,450	4.68%
0002	Revenue - International	Europe	0,000	0,000	0,000	0,000	0,000	0,000	0.00%	0,000	0,000	0,000	0,000	0.00%
0003	Revenue - Total	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500	52,450	50,000	2,450	4.68%
0004	Revenue - Licensed	Europe	0,000	0,000	0,000	0,000	0,000	0,000	0.00%	0,000	0,000	0,000	0,000	0.00%
0005	Revenue - Unlicensed	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500	52,450	50,000	2,450	4.68%
0006	Revenue - Selling to US	Europe	0,000	0,000	0,000	0,000	0,000	0,000	0.00%	0,000	0,000	0,000	0,000	0.00%
0007	Revenue - Selling to Europe	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500	52,450	50,000	2,450	4.68%
0008	Revenue - Selling to Other	Europe	0,000	0,000	0,000	0,000	0,000	0,000	0.00%	0,000	0,000	0,000	0,000	0.00%
0009	Revenue - Other	Europe	0,000	0,000	0,000	0,000	0,000	0,000	0.00%	0,000	0,000	0,000	0,000	0.00%
0010	Revenue - Total	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500	52,450	50,000	2,450	4.68%
0011	Revenue - Domestic	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500	52,450	50,000	2,450	4.68%
0012	Revenue - International	Europe	0,000	0,000	0,000	0,000	0,000	0,000	0.00%	0,000	0,000	0,000	0,000	0.00%
0013	Revenue - Total	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500	52,450	50,000	2,450	4.68%
0014	Revenue - Licensed	Europe	0,000	0,000	0,000	0,000	0,000	0,000	0.00%	0,000	0,000	0,000	0,000	0.00%
0015	Revenue - Unlicensed	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500	52,450	50,000	2,450	4.68%
0016	Revenue - Selling to US	Europe	0,000	0,000	0,000	0,000	0,000	0,000	0.00%	0,000	0,000	0,000	0,000	0.00%
0017	Revenue - Selling to Europe	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500	52,450	50,000	2,450	4.68%
0018	Revenue - Selling to Other	Europe	0,000	0,000	0,000	0,000	0,000	0,000	0.00%	0,000	0,000	0,000	0,000	0.00%
0019	Revenue - Other	Europe	0,000	0,000	0,000	0,000	0,000	0,000	0.00%	0,000	0,000	0,000	0,000	0.00%
0020	Revenue - Total	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500	52,450	50,000	2,450	4.68%
0021	Revenue - Domestic	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500	52,450	50,000	2,450	4.68%
0022	Revenue - International	Europe	0,000	0,000	0,000	0,000	0,000	0,000	0.00%	0,000	0,000	0,000	0,000	0.00%
0023	Revenue - Total	Europe	5,100	52,450	47,350	50,000	50,000	2,650	5.30%	52,500				

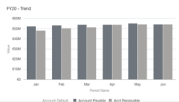
Total Assets	Total Liabilities
\$235.33M	\$214.66M
+10% YOY - June FY20	+20% YOY - June FY20

Total Assets decreased by 2.1% year to date

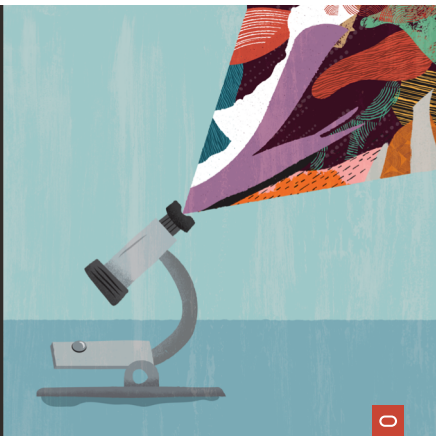


Total Payable	Total Receivable
\$54.09M	\$54.09M
+1% YOY - June FY20	+1% YOY - June FY20

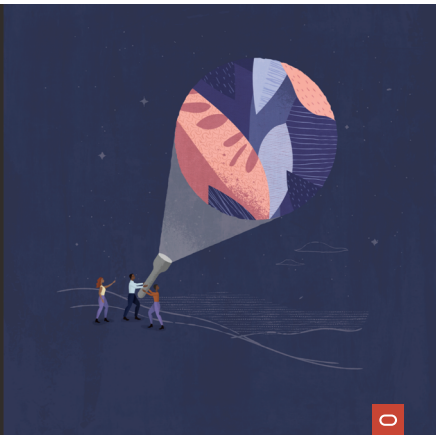
Total Payments increased by 3.8% year to date.



Oracle Analytics Demonstration



Oracle Analytics Roadmap



Oracle Analytics Roadmap – January 2021

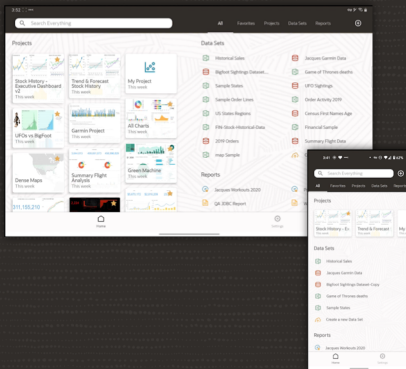
NetSuite Analytics Warehouse	NetSuite Analytics Warehouse	NetSuite Analytics Warehouse
• Beta Program	• Sales and Payables • Inventory	• Financials • Manufacturing
Fusion Analytics Warehouse	Fusion Analytics Warehouse	Fusion Analytics Warehouse
ERP Analytics <ul style="list-style-type: none"> Spend Analysis HCM Analytics <ul style="list-style-type: none"> Performance Goals Survey Analytics 	ERP Analytics <ul style="list-style-type: none"> Employee Expenses Multi-Calendar SQM Analytics <ul style="list-style-type: none"> Beta Program 	HCM Analytics <ul style="list-style-type: none"> Compensation Absence & Accruals CX Analytics <ul style="list-style-type: none"> Beta Program
Languages & Data Centers	Languages & Data Centers	Data Centers
<ul style="list-style-type: none"> Support for 10 Languages * Frankfurt (EMEA) & Sydney (APAC) 	<ul style="list-style-type: none"> Support for all 29 Languages Sao Paulo (LAT), Dubai (EMEA), Toronto (NA) 	<ul style="list-style-type: none"> Jeddah & Amsterdam (EMEA), Phoenix (NA)
H1 2021	H1 2021	H2 2021
Oracle Analytics Cloud	Oracle Analytics Cloud	Oracle Analytics Cloud
<ul style="list-style-type: none"> Generic JDBC Connectivity Connectivity to Google BigQuery Scheduled Refresh for Datasets Custom Knowledge Advanced Self-Service Datasets Support for subject area hierarchies in self-service pivot and table Chart sort dialog On-Canvas filters for date and measures Unrelated layers on maps Graph Analytics in Data Flow Private Access Channel Vanity URLs 	<ul style="list-style-type: none"> Microsoft Azure Synapse connectivity Support for analytics views from subject areas Data Quality Insights Increased limits for Data Flows Pivot Export to Excel Conditional Formatting Increased limits for export from visualizations Mapbox Maps Flexible, layer-based combo chart High resolution printing in Data Visualization Automated Insights Improved Natural Language Generation Next Gen OA Mobile Customized Actions for Consumers Redwood Design OAC on OCI Native health and performance metrics 	<ul style="list-style-type: none"> REST connector Web-based semantic modeler Semantic model markup language On-Canvas filter bar On-Canvas navigation control in visualization projects
Oracle Analytics Server		
• Annual Oracle Analytics Server Release		

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Oracle Analytics Mobile

- Unified Home Page & Search
- Interacting with DV projects
- Launch “Classic” Dashboard
- Share & collaborate on projects
- Open, create & upload datasets



More information on Oracle Analytics

[Oracle.com/Analytics](https://www.oracle.com/Analytics)

[Oracle.com/goto/AnalyticsLeaders](https://www.oracle.com/goto/AnalyticsLeaders)

[Blogs.oracle.com/analyticscloud](https://blogs.oracle.com/analyticscloud)

[Facebook.com/OracleBusinessAnalytics](https://www.facebook.com/OracleBusinessAnalytics)

[Twitter.com/OracleAnalytics](https://twitter.com/OracleAnalytics)

cloudcustomerconnect.oracle.com



Thank you **all for joining
& Thank you to the **Database**
team for the invitation!**

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Senior Director
Product Strategy
Analytics