

Extend analyses with additional data sources

Every organization has unique needs, which requires analyses from multiple sources of data, beyond what resides in Oracle Cloud Applications (ERP, HCM, CX & SCM). Oracle Fusion Analytics provides a variety of easy and more sophisticated ways to capture these data, from self-service methods to a more governed, curated approach for IT/data engineers that is preserved across Fusion Analytics upgrades.

Extensibility modes

Oracle Fusion Analytics provides the following ways to extend with additional data sources.

Automatic – Oracle Cloud Application flexfield extensions extend automatically to Oracle Fusion Analytics.

Self-service – Leveraging the capabilities of the underlying Oracle Analytics Cloud, anyone can utilize self-service tools for loading, modeling, managing, and visualizing any data.

Centralized – Load additional data sources in the same data repository as your Oracle Cloud Application data to govern and curate all your data together. Use open database APIs or any data integration tool to load, clean and manage data at huge volumes. Semantic model extensibility tools are available to include additional data sources in the semantic model with security.

Self-service data extensibility

There are a variety of ways to include additional data sources to the data model and analyses via self-service.

Native connectors

More than 50 native connectors to various sources, such as [Oracle Autonomous Database](#), [Oracle EPM](#), Google Big Query, Salesforce, and Snowflake. In addition, connect to any Java Database Connectivity (JDBC) based data source. Get real-time data from Oracle Cloud Applications using the Oracle Cloud Application connector.

[See all supported data sources](#)



“The idea is for managers to have information at their fingertips, rather than pulling reports together in Excel”

Treva Rumbeck

VP, Global Total Rewards and HR Operations at National Instruments

Next Steps

- [Request a demo](#)
- [View product tours](#)
- [Follow us @OracleAnalytics](#)

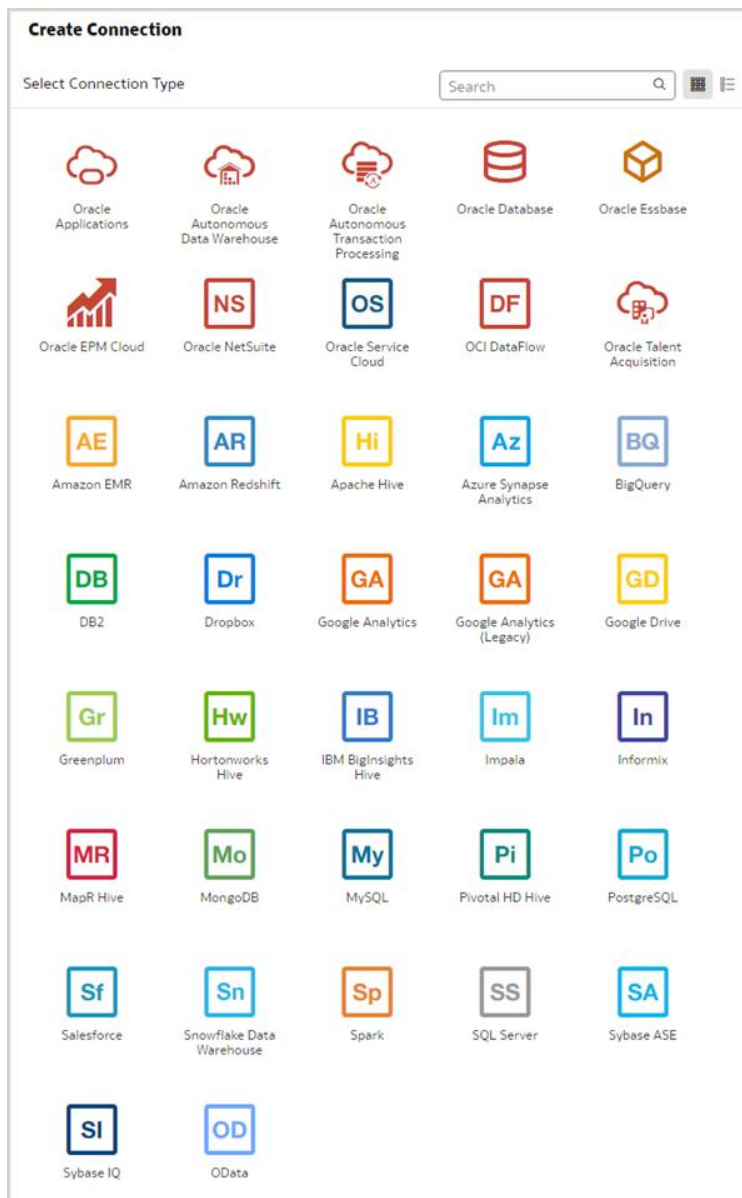


Figure 1 Example of native self-service connectors

Personal and third-party datasets and files

Upload personal datasets such as spreadsheets and comma separated value (CSV) files. Analyse these datasets alone or combine with the prebuilt subject areas of your Oracle Cloud Application data.

Product Type	Product	Country Name	State Province	Time	Profit Ratio %	Profit Value	Total Costs	Variable Costs	Revenue	# of Customers
Smart Phones	Touch Screen TS	Niger	Namby	12/12/2013	-0.94027641379200	-48.9777999999999	1.795.420700000000	1.561.562120000000	1.694.45	2
Tablets	PocketFun ES	Japan	Aomori	05/11/2013	11.96466982698700	79.2515799999999	585.128420000000	521.085700000000	662.39	1
Cameras	MPEG4 Camcorder	United States	California	04/30/2013	33.98825516884700	2.159.195700000000	4.193.574500000000	3.412.170900000000	8.352.77	4
Phones	CompCell R1X	Australia	NSW	07/09/2012	10.29075932780900	189.442499999999	1.477.107560000000	1.250.497730000000	1.646.55	1
Cameras	7 Megapixel Digital Camera	Greenland	Kommuneqarfut Sermersooq	12/05/2013	-0.753267973350400	-7.55022999999999	1.039.480120000000	906.844800000000	1.053.89	1
Tablets	PocketFun ES	Hong Kong S.A.R.		03/15/2012	55.96027884487800	256.477120000000	201.842850000000	170.541490000000		
Accessories	Bluetooth Adapter	Chad	Meller-Lamis	07/24/2013	80.64214264067600	527.738510000000	126.681490000000	74.949450000000	654.42	1
Audio	MicroPod 40GB	Peru	Lima	08/09/2013	15.26650041891420	958.063300000000	3.448.496700000000	3.001.948840000000	4.206.56	2
Cameras	MPEG4 Camcorder	United States	Maryland	05/15/2013	56.58272326885100	970.856160000000	764.889400000000	622.568500000000	1.715.74	1
Food	Game Station	China	Beijing	10/05/2012	-2.256236239915200	-2.80469000000000	129.224690000000	110.309120000000	125.42	1
Smart Phones	KeyNav S-Phone	Lithuania	A. J. Juške	10/27/2013	-11.140975371523200	-47.9028000000000	477.892600000000	415.112560000000	429.99	1
Food	Game Station	India	Karnataka	12/05/2012	15.991662189454900	9.92651000000000	31.1334900000000	25.8232999999999	37.06	1
Smart Phones	KeyNav S-Phone	Mongolia	Ulaanbaatar	12/11/2013	58.54784391545200	308.295380000000	210.274620000000	185.093090000000	526.57	1
Accessories	Bluetooth Adapter	Netherlands	Noord-Holland	11/06/2013	49.813059471534200	485.615090000000	201.549120000000	98.752460000000	667.00	1
Cameras	MPEG4 Camcorder	Egypt	Al-Qahirah	20/06/2013	49.299488760064700	2.135.651940000000	994.886640000000	513.264990000000	9.110.54	2
Smart Phones	Touch Screen TS	Japan	Owaka	11/11/2013	-81.028626566838900	-4173.125460000000	1.118.125460000000	888.316010000000	801.05	1

Figure 2 Example of an uploaded spreadsheet during data preparation

Self-service data preparation and transformation

Perform all necessary last-mile data preparation and enrichment tasks for analytics with the code-free capabilities of self-service data flows. Connect multiple data sources whether in the cloud, on-premises, or personal data extracts into cohesive datasets on the cloud. Results can be saved in the embedded Oracle Autonomous Data Warehouse, in Oracle Analytics storage, any connected RDBMS, or Oracle Essbase.

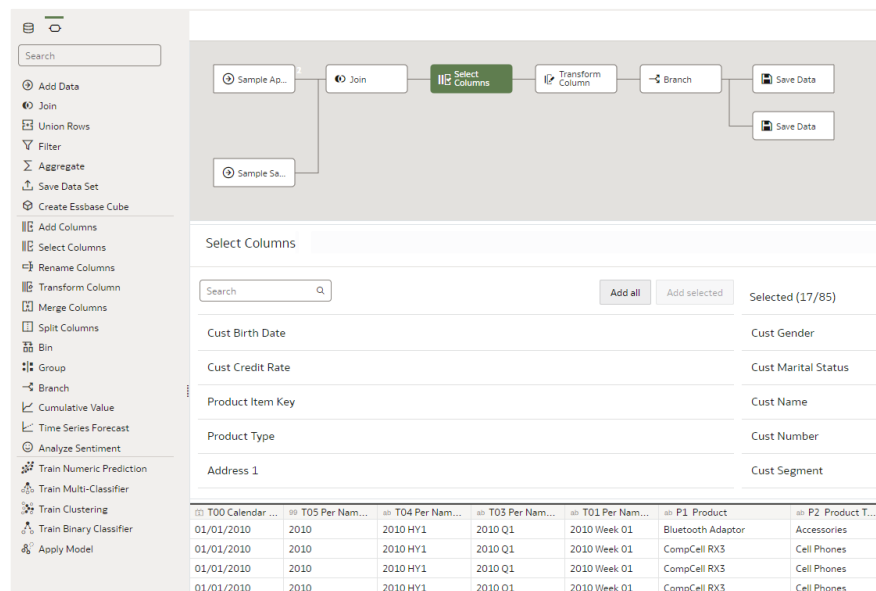


Figure 3 Example of self-service data preparation

Centralized data extensibility

The prebuilt data model and semantic model can be extended and preserved across Oracle Fusion Analytics upgrades.

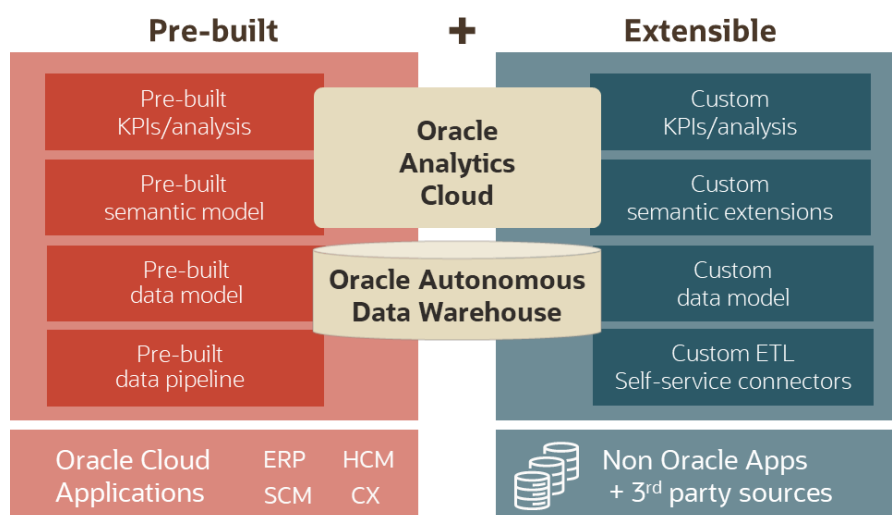


Figure 4 Fusion Analytics prebuilt and extensibility architecture

Extending the data model

While the prebuilt data model (star schema) for the Oracle Cloud Application data is read-only to ensure all prebuilt KPIs and analyses are never broken, the data model is easily extended by adding external data sources into custom-built database schemas in the same embedded Oracle Autonomous Data Warehouse (ADW) service. Fusion Analytics supports any data movement tool for loading data, such as Oracle Data Integration, any third-party tools, or even plain SQL.

Extending the semantic model

Extending the semantic model is performed via a simple wizard-driven interface, supporting a multi-user development and publishing process. The following customizations are available:

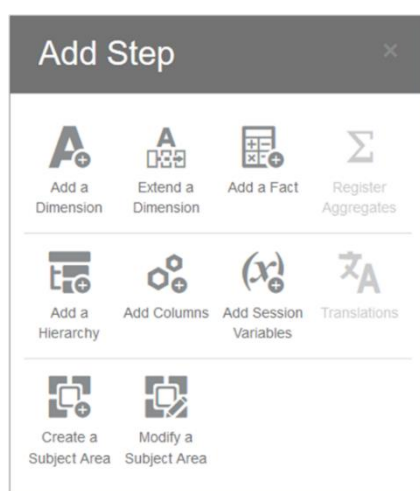


Figure 5 Example of semantic model extensibility capabilities

- **Add a Dimension** to existing subject area
- **Add a Fact Table** to existing subject area
- **Add a Hierarchy** to a dimension table in an existing subject area
- **Add Session Variables** that you can include in the analysis
- **Extend a Dimension** with additional attributes from another data source
- **Add Derived Columns** to an existing subject area
- **Create a Subject Area**
- **Modify a Subject Area**

All semantic model changes follow a test to production, version-controlled publishing process. Data engineers/IT can perform extensibility and testing tasks in the provided test environment. Once changes are ready, they can be published to the production environment. All customizations are preserved across Oracle Fusion Analytics upgrades and patches.

Connect with us

Call +1.800.ORACLE1 or visit oracle.com. Outside North America, find your local office at: oracle.com/contact.

 blogs.oracle.com

 facebook.com/oracle

 twitter.com/oracle

Copyright © 2021, Oracle and/or its affiliates. All rights reserved. This document is provided for information purposes only, and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document, and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission.

This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group. 0120

Disclaimer: If you are unsure whether your data sheet needs a disclaimer, read the revenue recognition policy. If you have further questions about your content and the disclaimer requirements, e-mail REVREC_US@oracle.com.