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Solution Brief: Pre-built, Self-service Data Analytics for Oracle E-Business Suite

Providing finance teams with deep and fast data-driven insights

Introduction

No longer is it enough for finance teams to report financial results and streamline processes; in fact, 85% of an ESG survey respondents believe it is imperative for the finance organization to transform from reporting on "what" is happening in the business to "why" things are happening. Finance leaders are expected to answer new questions from executives every day, and to guide business strategy. It is therefore not surprising that according to Gartner, the #1 priority of CFOs is advanced data analytics technologies.

While Deloitte notes that "CFOs are in a unique position to become the chief analytics officers as finance gains a bigger influence in driving the company's strategy", CFOs do spend more time sifting through spreadsheets than doing anything else—an average of 2.24 hours per day. Finance teams face significant challenges combining ever growing data sets from different formats and sources into a single source of truth to provide actionable insights to other departments.

For IT, those needs translate into an increasing number of complex, time consuming demands from financial analysts.

Going beyond Oracle E-Business Suite reporting

While the Oracle E-Business Suite transactional reporting and supplementary offerings such as Enterprise Command Centres enable finance teams to report on "what" happened, they often fail to rapidly help them understand the root causes of issues. Additionally, existing solutions may not efficiently address new demands from finance teams, including:

- Independently starting new data analytics projects in minutes
- Combining E-Business Suite data with numerous other data sets across different sources and formats
- Eliminating the consolidation of information in spreadsheets for data sharing and collaboration
- Self-service analytics powered by machine learning to quickly discover new insights
- Ability to easily build and deploy machine learning models
- Performing graph and spatial analysis
- Standardized reporting across E-Business Suite and Oracle Fusion ERP
- Faster data analytics integration of acquired companies

The situation was exacerbated by the COVID-19 pandemic. According to The Data Warehouse Institute (TDWI): "**Data democratization and self-service have become an imperative**. Now, enterprises need to **provide data and the means to transform data to more business users** to help them **rapidly solve business problems inside their departments**."

E-Business Suite Analytics Cloud Accelerator

EBS Analytics Cloud Accelerator is a prebuilt solution for E-Business Suite powered by Oracle Autonomous Database for analytics and data warehousing and Oracle Analytics Cloud. It enables finance professionals to rapidly uncover underlying drivers of profitability, improve the use of working capital, and control business expenditures. EBS Analytics Cloud Accelerator includes:

- Hundreds of prebuilt KPIs, dashboards and reports complementing EBS transactional reporting to help guide business strategy

- A prebuilt data foundation (data pipeline from Oracle EBS and data models) allowing users to focus on analysis, not data management
- A complete, self-service data analytics solution to easily enrich E-Business Suite data with additional data sets and discover new insights with a comprehensive suite of built-in tools

With the EBS Analytics accelerator for Oracle's E-Business Suite, customers can fulfil their requirements for a pre-built Analytics solution with over 200 pre-built market standard KPIs, reports and dashboards that deliver the perfect foundation for Finance, SCM and Procurement Analytical reporting bringing down the solution deployment time by up to 70% and lower TCO while fast-tracking their analytics journey.

EBS Analytics Cloud Accelerator is implemented by the Oracle Services (Oracle Consulting, Oracle Advanced Customer Support) & Oracle Cloud Lift teams. The accelerator is continuously upgraded with latest OAC, ADW & AI/ML features along with new KPIs

EBS Analytics Cloud Accelerator delivers:

- 100s of prebuilt Financial KPIs to monitor business performance – Sample list below

GL Balances

- Activity Acct Credit/Debit Amount
- Activity Local Credit/Debit Amount
- Activity Acct Amount
- Activity Local Amount
- Activity Acct CR/DR Amount
- Balance Acct Credit/Debit Amount
- Balance Acct/ Local Amount
- Balance Local Credit/Debit Amount
- Balance Local Debit Amount
- Balance Local Amount - Revenue
- Beginning Balance Acct Amt
- Balance Acct Amount (LY)
- Closing Balance Acct Amt
- Activity Debit/Credit Amount
- Balance Credit/Debit Amount
- Total Customers
- New Customers
- Detailed GL Journal entries
- Consolidated data for all ledgers
- Trends across all KPIs

Account Payables

- Spend Summary
  - Spend distribution by location
  - Top 5 BU Spend
  - Spend Trend
  - Spend commitment near Future
  - Days Payable Outstanding
- Supplier Perspective
  - Top 10 Suppliers by Spend
  - Spend Trend
  - Aging overview
- Compliance Overview
  - Invoice Compliance
  - Payment Compliance by Payment time
  - Compliance by Payment method
- Invoice Holds
  - Invoices on Hold
  - Hold Reasons

Account Receivables

- AR Summary
  - Customer Presence by Geography
  - Top 5 BU Receivable
  - Days Sales Outstanding
  - Invoices count by Payment Term
  - Cleared Invoices Vs Hold Invoices
  - AP/AR Netting
- Customer Overview
  - Top 10 Customers
  - AR Amount by Product Category
  - Top 10 Overdue Customers
  - AR Amount by Account Class Code
  - Payment Method Distribution
- Invoice Details
  - Listing of invoices
  - Invoice Distribution data

- 100s of prebuilt Procurement and Spend KPIs - Sample list below
- Additional prebuilt data models, dashboards, and reports

Order Management

- # of Cancelled, Fulfillment Lines, Order lines, Products, Return Orders, Sales Orders, Orders
- Quantity Amount for Cancelled, Fulfilled, Returns, Discount, Bookings, Outstanding Booking, COGS, Internal Orders
- Order Amount Margin
- Return Amount Margin
- Cumulative Order revenue
- Order to fulfillment Cycle Time
- Order Completion Cycle Time
- Transit Hours
- Direct Cost Buy / Sell
- # of Shipments, Pallets, ERU
- Planned Costs Buy, Sell Base
- Weight, Volume , UOMs
- Package Counts
- # of Invoices
- # of Invoice Lines
- Invoiced Amount
- Invoiced Quantity
- Order vs Invoice Analysis
- Time series Analysis on above KPIs

Inventory

- Ageing Amount
- Available Amount
- Holding Days
- Inventory Quantity
- On Hand Quantity
- Available Quantity
- In Transit Quantity
- Reserved Quantity
- Allocated Quantity
- Replenishment Quantity
- Available, Inspection, Restricted, Block Consignment Quantity
- Reorder Point
- # of Products requiring reorder
- Change On-Hand Qty Periods Ago
- On-hand/Available Quantity
- Inventory Value
- Inventory Aging
- Time Series Analysis on above KPIs

Procurement

- Requested Quantity
- Requisition approval cycle time
- Cancelled Line Amount
- Cancelled Line Quantity
- Fulfilled Cycle Time Days
- Fulfilled Requisition Amount
- Fulfilled Requisition Lines
- Fulfilled Requisition Lines Past Expected Date
- Line Amount
- PO Amount
- PO Quantity
- # of POs
- Received/ Outstanding Quantity
- Above KPIs by status of PO
- PO Received Quantity
- Received Quantity
- Receipt Amount
- KPIs by status (Accepted, Rejected, Returned)

Procurement *(continued)*

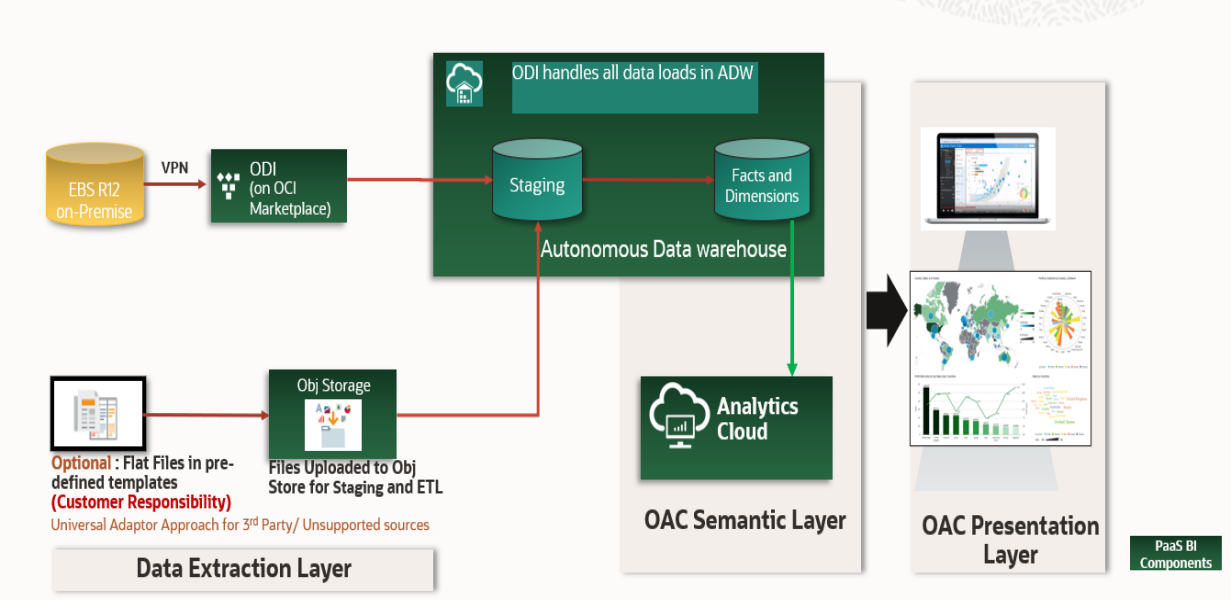
- Spend, Year Ago Spend
- PO Matched Spend
- PO Not Required Spend
- PO Required Spend
- Invoice Quantity, Invoice Amount
- Invoice Cycle Time
- Invoice Price Variance Amount
- # of Suppliers
- # of Invoices
- Order vs Invoice Analysis
- Time series Analysis on above KPIs
- On Time Qty and Amounts
- Late Qty and Amounts
- Early Qty and Amounts
- Accepted /Rejected
- Supplier Rating
- Percentages on above KPIs

A complete, self-service data analytics solution

In addition to the prebuilt content, EBS Analytics Cloud Accelerator can be extended to build custom integrations, data models, KPIs or reports.

Data from all sources and formats can be combined in Autonomous Database for analytics and data warehousing to drive secure collaboration around a single source of truth. Autonomous Database intelligently automates provisioning, configuring, securing, patching, backing up, performance tuning, and repairing of a data warehouse.

Reference Architecture for EBS Analytics Cloud Accelerator with Out of Box data models for staging & DWH



The ability to manage data mashups from multiple sources including cloud sources reduces administration effort by up to 90%, enabling finance teams to operate independently while freeing up valuable resources for IT teams. It is the only cloud data warehouse that is **autonomous**, **self-service**, and **complete**, providing finance teams with a comprehensive suite of built-in tools:

- Data tools enable self-service drag-and-drop data loading, data transformation, and business modelling. Financial analysts can automatically discover insights with machine learning algorithms—no coding required—saving them significant time and efforts.

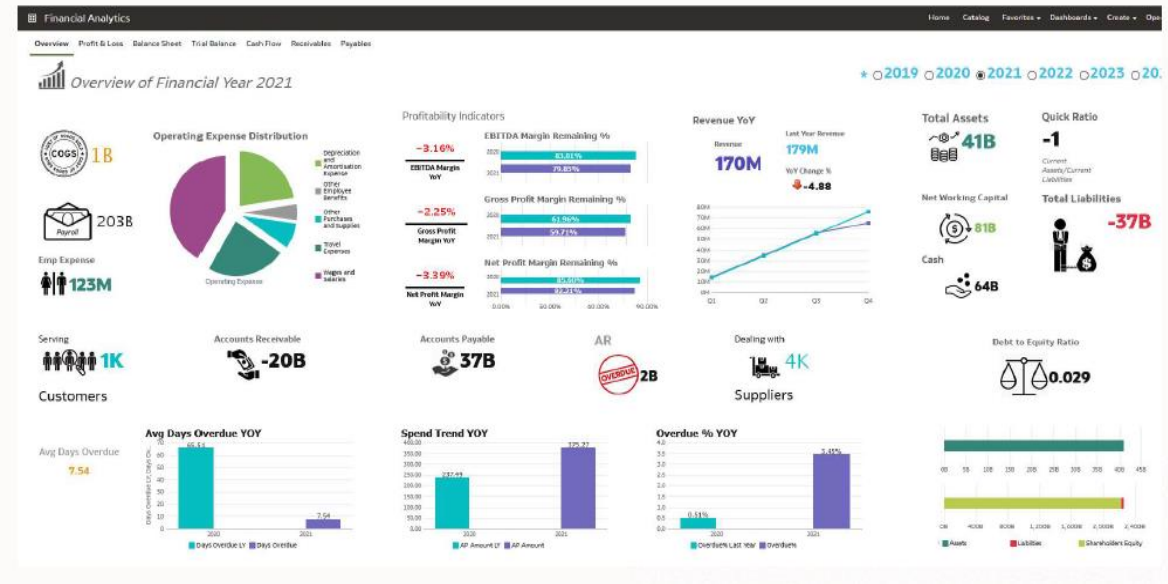
- Built-in graph analytics enables financial analysts to visualize relationships and connections between data entities. They can for example instantly see all costs and headcount associated to a given project, or understand all dependencies associated to a given supplier to best manage supplier relationships.

- With built-in spatial analytics, they can rapidly answer financial questions such as “where did bad weather impact revenue?”, or “where are our most profitable customers?”

- Financial analysts can build machine learning models—with a no code interface for business users—to predict likely financial outcomes, e.g., customers likely to default on payment, transactions likely to be fraudulent, expected revenue based on forecast and historical patterns…etc

- With the built-in Oracle APEX low-code development platform, finance teams can quickly develop applications for ad hoc needs and gaps/processes handled outside of their ERP—without having to join a queue of IT projects. Such applications can include ad hoc data rooms for acquisitions, tracking the progress of digital transformation initiatives, or COVID-19 related applications.

Sample Out of Box Financial Analytics Overview Dashboard



Oracle Analytics Cloud is connected to Autonomous Database, empowering business users and executives with modern, AI-powered, self-service analytics capabilities for data preparation, visualization, enterprise reporting, augmented analysis, and natural language processing/generation.

Customers primarily interested in the complete, self-service data analytics solution previously described—and less in the prebuilt KPIs, dashboards and reports—can naturally implement it separately. More information about this Oracle Departmental Data Warehouse solution is available here.

Conclusion

Beyond their core financial responsibilities, finance leaders are in a unique position to guide business strategy and help other departments achieve their goals. Having the ability to rapidly and independently turn a growing mountain of data into insights is essential to achieve these objectives. EBS Analytics Cloud Accelerator, powered by Autonomous Database and Oracle Analytics Cloud, empowers finance teams with actionable intelligence for fast decision making—enabling them to efficiently take on the leadership role that is increasingly expected of them. Moreover, IT teams reduce risks with a governed, secure solution while saving significant time and efforts.

Contact us to learn more about EBS Analytics Cloud Accelerator

Connect with us

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