

Teradata OLAP Connector

Direct Connection from Excel PivotTables to Teradata Database

Connections are critical in any area of a business, whether it's building strong client relationships or widening a communication network. And that includes connecting your Teradata® data warehouse to one of the most popular Business Intelligence (BI) tools on the market: Microsoft® Excel. Business users are familiar with Excel because it's available on all users' desktops, and it's easy to use. Excel is used to perform the final steps of the analytics and to create reports and charts to share across the organization.

But with widespread popularity comes equally widespread problems. Companies who want their personnel to work in Excel often face issues, including:

- > Data inconsistencies and regulation challenges created by extracting data from the data warehouse and storing them locally in Excel.
- > Excel users across the organization without direct access to real-time data are forced to work with stale information, causing them to come up with different calculations and analyses.
- > Governing sensitive data use is difficult because users share Excel workbooks and bypass user access and authentication rules.

Faster Response. Smarter Decisions.

To overcome those and other challenges, companies must be able to connect their BI tools directly to their Teradata data warehouse. That connection assures businesses they can leverage fresh and detailed data, as well as the scalable Teradata analytical engine, for faster response time and optimized decision making.

And there's only one tool available that makes the direct connection between your Teradata system and your Excel applications: Teradata OLAP Connector. OLAP Connector allows you to leave data in your data warehouse and access them directly from Excel. The result? You gain the most comprehensive view possible of your entire enterprise and position your business for maximum agility.

With Teradata OLAP Connector, you can eliminate data extraction and loading times, as well as the need to store data in an Excel Workbook. And because it provides seamless Excel PivotTables access to your data warehouse, you're assured of consistent corporate data throughout your organization. Just as important, users can continue to work with the reporting and analytics tool they're most familiar with: Excel.

Across-the-Board Advantages

In addition to eliminating the need to extract data and store them locally in another file, Teradata OLAP Connector offers other distinct benefits:



- > **Real-time data** – Users can take advantage of the direct connection to share and work from the same data anywhere in the organization.
- > **Reduced IT workload** – The self-service capability the connection provides lessens the strain on your IT organization and allows users to do more on their own.
- > **Continued security** – Because all activity is conducted within existing Teradata security log-in and access controls, there's no need to create another security level.
- > **Workload management** – No matter how many users you have, your IT personnel will be able to control the workflow using query banding and Teradata Active Systems Management.
- > **Consistent results** – Because data are fresh and shared, all reports and analyses are consistent across the company.
- > **Competitive advantage** – New opportunities for speed and intelligence can help you outpace your competitors.

Teradata OLAP Connector

Leveraging data from your Teradata system helps:

- > Increase the breadth and depth of data analytics through deeper detail.
- > Improve analytics response times.
- > Reduce data latency.
- > Reduce data storage requirements.

A Total, Integrated Package

Teradata OLAP Connector includes an administrative tool: Teradata Schema Workbench, a visual desktop tool for your DBAs that models and defines schema definitions for use with Excel. By connecting to relational data sources, Schema Workbench defines, edits, and publishes schemas, cubes, dimensions, hierarchies,

levels, measures, calculated members, and MDX expressions.

Here is a typical workflow for creating a new Excel-based solution to work with Teradata OLAP Connector:

1. Identify the target Excel solution (either existing or new solution).
2. Capture the schema definition for the target solution using Schema Workbench. The schema definition is then stored in Teradata Database so it can be accessed by OLAP Connector.
3. Excel users connect to Teradata Database via the Teradata OLAP Connector, and the user selects the solution from the list of available solutions created by the Teradata Schema Workbench.

Teradata OLAP Connector is part of the Teradata Business Intelligence Optimizer suite of products and is integrated with another product from that suite: Teradata Aggregate Designer. This product reads the schema definitions created by the Teradata Schema Workbench to analyze possible performance optimizations in Teradata Database. Teradata Aggregate Designer creates Aggregate Join Indexes (AJIs) within the Teradata Database, which automatically aggregates data as they are loaded into the data warehouse to support commonly used hierarchical aggregations (such as weekly, monthly, or annual aggregations).

Teradata optimizer automatically uses AJIs to speed the performance of all OLAP solutions and Excel PivotTables solutions.

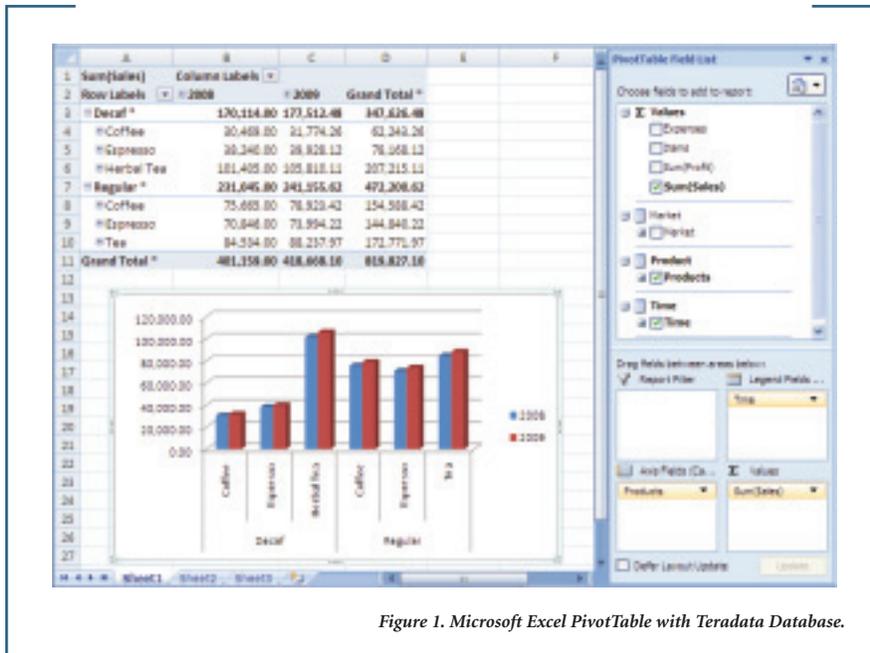


Figure 1. Microsoft Excel PivotTable with Teradata Database.

Why Choose Teradata?

Teradata is the world's largest company focused on analytic data solutions through integrated data warehousing, big data analytics, and business applications. Only Teradata gives organizations the advantage to transform data across the organization into actionable insights empowering leaders to think boldly and act decisively for the best decisions possible.

For More Information

To find out more about how Teradata OLAP Connector can help you streamline the connection to Excel and make your business more agile, contact your local Teradata representative or visit Teradata.com.

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