

Google Big Query

What is Google Big Query

Google Cloud Big Query is a **fully managed, cloud-native data warehouse that enables fast SQL queries**. It lets business and developers gain real-time business insights from massive amounts of data without any up-front hardware or software investments.

With Google Bigquery we can run ad hoc, SQL like queries against datasets with billions of rows. It works best for interactive analysis of multi-terabyte datasets, to which we can append fresh data.



How to...

Where to find help

Data Architecture team

Bigquery offers various benefits to the organisation:

- **Faster business Insights:**

Leverage Google's massive computing power to get business insights from big data in seconds rather than hours. Google Cloud BigQuery gives the users the capability to analyze large and complex datasets, and perform ad-hoc queries.

- **Analyse, and scale big data with ease:**

Data can be analysed using familiar SQL-like queries. Thanks to its serverless architecture, which allows us to scale the analytics automatically.

- **Data is Protected and Highly Available:**

As we all know, data is precious to any business. Data is highly available, because it is replicated across multiple data centers. It also protected with multiple layers of security.

What Solvay uses Google Big Query for

Google Cloud BigQuery is the chosen entity to store raw, curated and consumable data for all Visualisation, Analytics and web-application products at Solvay.

It is widely used by the analytics team for business intelligence, ad hoc analysis, and machine learning.

Who should use it

The data organization is under the accountability of the DA&AI Data Architecture team, whereas the DA&AI Data Engineering team is responsible to implement the data flows to feed the BigQuery tables. Data Science, Data Visualization, DataOps teams provide the end-user tool, connecting to the data available in Google BigQuery

When should you use Google Big Query

Below are few uses cases when we should use BigQuery:

1. Faster business Insights:

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2. Analyze, and scale big data with ease:

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What outputs it will give you

Provides an optimized datasets best suits for gaining organizational insights and help in making business decisions.

