

Introduction to Data Analytics on Google Cloud

The best training to start data analysis on Google Cloud

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Learning outcomes

- Describe the data analytics workflow on Google Cloud and summarize the different types of analytics.
- Identify Google Cloud data analytics products and describe how each is used to work with data.
- Describe data sources, data structures, and data storage options in Google Cloud.
- Use BigQuery, Looker, and Looker Studio to answer data questions and influence business decisions.

Who this course is for

Data analysts

Prerequisites

- Basic familiarity with SQL
- Basic understanding of data concepts such as data types (relational, non-relational) and storage (data lakes, data warehouses)

Course Outline

Module 01 : Understand the Data Analytics Lifecycle on Google Cloud

Topics

- Data analytics workflow
- Data sources
- Storage methods
- Google Cloud data analytics products
- Data types

Objectives

- Detail and describe the data analytics workflow on Google Cloud.
- Compare and contrast data sources and storage methods available in Google Cloud.
- Compare how different data types can be used for data analytics.

Activities

- Quiz

Module 02 : Explore Data and Extract Insights by Using BigQuery

Topics

- BigQuery services, capabilities, and organization
- Data storage
- Basic SQL
- Answering data-driven questions

Objectives

- Describe BigQuery and the BigQuery solution architecture.
- Derive insights from data by using BigQuery.
- Use the BigQuery user interface to run basic queries.

Activities

- Lab 1: BigQuery Qwik Start: Console
- Lab 2: Introduction to SQL for BigQuery and Cloud SQL
- Lab 3: BigLake: Qwik Start
- Lab 4: Analyze data with Gemini Assistance
- Quizz

Module 03 : Make Data-Driven Decisions by Using Looker

Topics

- Looker data exploration terms and concepts
- Looks and dashboards
- Visualizations
- Report sharing
- Looker Studio

Objectives

- Manipulate a Looker Explore to answer data-driven questions.
- Create a situation-appropriate visualization to highlight the answer for a data-driven question.
- Choose between Looker and Looker Studio for data visualization and sharing.
- Share visualizations with others.

Activities

- Lab 1: Looker Data Explorer—Qwik Start
- Lab 2: Looker Data Studio—Qwik Star
- Quiz