ITTcert
BY ORSYS

Course : BigQuery for Data Analysts

Official course, preparation for Google Cloud certifications

Practical course - 2d - 14h00 - Ref. GQA
Price : 1590 € E.T.

NEW

With this training course, you'll learn how to leverage BigQuery, Google Cloud's cloud and serverless data warehouse, to analyze, transform and visualize large volumes of data using SQL. You'll discover how to efficiently import and structure your data, design optimized queries, automate your processing and create relevant visualizations to support decision-making. As a result, you'll develop an operational command of BigQuery in a secure, scalable environment, perfectly adapted to the challenges of modern data analysis.

🎯 Teaching objectives

At the end of the training, the participant will be able to:

- ✅ Understand the role and value of BigQuery and its main analysis capabilities.
- ✅ Import, explore and transform data in BigQuery using SQL.
- ✅ Use external sources and develop transformation pipelines with Dataform.
- ✅ Visualize data via Connected Sheets and Looker Studio.
- ✅ Make the most of BigQuery Studio's advanced integrations and features.

Intended audience
Data analysts wishing to master BigQuery for their data analysis needs.

Prerequisites
Completion of the course "Introduction to Data Analytics on Google Cloud" or equivalent knowledge.

Certification
This course prepares you for Google Cloud certifications.
Comment passer votre examen ?

Practical details

Teaching methods

Training in French. Official course material in digital format and in English. Good understanding of written English.

Course schedule

(1) Discover BigQuery for data analysts

- Analyze data on Google Cloud.
- Learn how to transform data into useful information with BigQuery.
- Real-life use cases from companies transformed by analytics on Google Cloud.

(2) Explore and prepare your data with BigQuery

- Common data mining techniques.
- Analyze large datasets with BigQuery.
- Describe the basic principles of queries.
- Analyze the use of functions.
- Enrich queries with UNION and JOIN.

Hands-on work

Exploring an e-commerce dataset with SQL in Google BigQuery. Troubleshoot common SQL errors with BigQuery. Troubleshoot and resolve data join pitfalls.

(3) Clean and transform your data

- Analyze the five principles of dataset integrity.
- Clean up and transform data with SQL.
- Overview of other data cleansing and transformation options.

(4) Ingestion and storage of new BigQuery datasets

- Describe permanent and temporary data tables.
- Analyze the ingestion of new data sets.
- Study external data sources.

Hands-on work

Creation of new permanent tables Ingestion and interrogation of new data sets.

(5) Visualize your BigQuery insights

- Introduction to data visualization.
- The fundamentals of effective visualization.
- Exploit your data with Connected Sheets.
- Avoid common visualization errors.
- Create dynamic dashboards with Looker Studio.
- Analyze your data in a Notebook environment.

Hands-on work

Connected Sheet quick start. Explore and create reports with Looker Studio.

(6) Create scalable data pipelines in BigQuery with Dataform

- Analyze the big picture.
- Discover Dataform.
- Getting started with Dataform.

Hands-on work
Create and run a SQL workflow in Dataform.

(7) Discover BigQuery Studio

- Introducing BigQuery Studio.
- Use Duet AI in BigQuery to explain and generate SQL queries.
- Discover new ergonomic features and integrations with Dataform and Dataplex.

Hands-on work
Analyze data using Duet AI. Generate personalized email content with BigQuery and Gemini continuous queries.

Dates and locations

REMOTE CLASS
2026 : 12 Mar., 4 June, 17 Sep., 26 Nov.

PARIS LA DÉFENSE
2026 : 12 Mar., 4 June, 17 Sep., 26 Nov.