

# BigQuery Basics for Data Analysts

Fundamental 5 Steps 4 hours 2 Credits

Want to scale your data analysis efforts without managing database hardware? Learn the best practices for querying and getting insights from your data warehouse with this interactive series of BigQuery labs. BigQuery is Google's fully managed, NoOps, low cost analytics database. With BigQuery you can query terabytes and terabytes of data without having any infrastructure to manage or needing a database administrator. BigQuery uses SQL and can take advantage of the pay-as-you-go model. BigQuery allows you to focus on analyzing data to find meaningful insights.

Data

## Prerequisites:

It is recommended but not required that students have a familiarity with data and spreadsheets.

## Quest Outline

### [Introduction to SQL for BigQuery and Cloud SQL](#)

In this lab you will learn fundamental SQL clauses and will get hands on practice running structured queries on BigQuery and Cloud SQL.

1 hour

Introductory

1 Credit

### [BigQuery: Qwik Start - Console](#)

This lab shows you how to query public tables and load sample data into BigQuery using the Web UI. Watch the short videos [Get Meaningful Insights with Google BigQuery](#) and [BigQuery: Qwik Start - Qwiklabs Preview](#).

30 minutes

Introductory

1 Credit

### [BigQuery: Qwik Start - Command Line](#)

This hands-on lab shows you how to query public tables and load sample data into BigQuery using the Command Line Interface. Watch the short videos [Get Meaningful Insights with Google BigQuery](#) and [BigQuery: Qwik Start - Qwiklabs Preview](#).

30 minutes

Introductory

Free

### [Exploring Your Ecommerce Dataset with SQL in Google BigQuery](#)

In this lab, you learn to use BigQuery to find data, query the data-to-insights public dataset, and write and execute queries.

30 minutes

Fundamental

Free

### [Troubleshooting Common SQL Errors with BigQuery](#)

In this lab, you use BigQuery to troubleshoot common SQL errors, query the data-to-insights public dataset, use the Query Validator, and troubleshoot syntax and logical SQL errors.

50 minutes

Fundamental

Free

### [Explore and Create Reports with Data Studio](#)

In this lab, you learn how to connect Google Data Studio to Google BigQuery data tables, create charts, and explore the relationships between dimensions and measures.

40 minutes

Introductory

Free

## Quest Complete!

Congrats! You completed this quest and earned a badge. Become a cloud expert and start another.

