BigQuery | <u>BigQuery ML</u> (/bigquery-ml/docs) | <u>BigQuery BI Engine</u> (/bi-engine/docs) | <u>BigQuery Data Transfer Service</u> (/bigquery-transfer/docs)

BIGQUERY DOCUMENTATION (#)



vast amounts of data in near real time. With BigQuery, there's no infrastructure to set up or manage, letting you focus on finding meaningful insights using standard SQL and taking advantage of flexible pricing models across on-demand and flat-rate options. <u>Learn more</u> (/bigquery/docs/introduction)

Guides

Quickstarts: Console (/bigquery/docs/quickstarts/quickstart-web-ui), Command line (/bigquery/docs/quickstarts/quickstart-command-line), or Client libraries (/bigquery/docs/quickstarts/quickstart-client-libraries)

Creating and using tables

(/bigquery/docs/tables)

Introduction to partitioned tables

(/bigquery/docs/partitioned-tables)

https://cloud.google.com/bigquery/docs 1/11

Using the BigQuery sandbox

(/bigguery/docs/sandbox)

Predefined roles and permissions

(/bigquery/docs/access-control)

<u>Loading CSV data from Cloud Storage</u>

(/bigquery/docs/loading-data-cloud-storage-csv)

BIGQUERY DOCUMENTATION (#)



Introduction to loading data

(/bigquery/docs/loading-data)

Streaming data into BigQuery

(/bigquery/streaming-data-into-bigquery)

Querying external data sources

(/bigquery/external-data-sources)

Reference

Expressions, functions, and operators in Standard SQL

(/bigquery/docs/reference/standard-sql/functions-and-operators)

https://cloud.google.com/bigquery/docs 2/11

Date functions in Standard SQL

(/bigguery/docs/reference/standard-sql/date_functions)

Query syntax in Standard SQL

(/bigquery/docs/reference/standard-sql/query-syntax)

String functions in Standard SQL

(/bigquery/docs/reference/standard-sql/string_functions)

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BigQuery API Client Libraries

(/bigguery/docs/reference/libraries)

BigQuery APIs and Libraries Overview

(/bigquery/docs/reference/libraries-overview)

BigQuery storage API overview

(/bigquery/docs/reference/storage)

Overview of audit logging

(/bigquery/docs/reference/auditlogs)

Public datasets

(/bigquery/public-data)

Resources

https://cloud.google.com/bigquery/docs 3/11

Pricing (/bigquery/pricing) Release notes (/bigquery/docs/release-notes) **Locations BIGQUERY DOCUMENTATION** (#) (/bigquery/docs/getting-support) **Quotas and limits** (/bigquery/quotas) **Controlling costs** (/bigquery/docs/controlling-costs) <u>Creating custom cost controls</u> (/bigquery/docs/custom-quotas) <u>Troubleshooting BigQuery quota errors</u> (/bigquery/docs/troubleshoot-quotas) Billing questions (/bigquery/docs/billing-questions)

https://cloud.google.com/bigquery/docs 4/11

More → (/bigquery/docs/resources)

Training and tutorials

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QWIKLABS

BigQuery for Data Warehousing

Learn best practices for extracting, transforming, and loading your data into Google Cloud with BigQuery.

Learn more → (https://www.qwiklabs.com/quests/68)

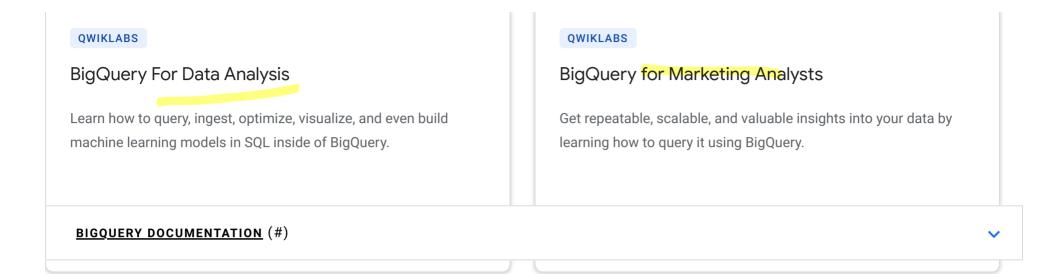
CODELAB

Preprocessing BigQuery Data with PySpark on Dataproc

Learn to create a data processing pipeline using Apache Spark with Dataproc on Google Cloud Platform. It is a common use case in data science and data engineering to read data from one storage location, perform transformations on it and write it into another storage location.

Learn more → (https://codelabs.developers.google.com/codelabs /pyspark-bigquery/)

https://cloud.google.com/bigquery/docs 5/11



Use cases

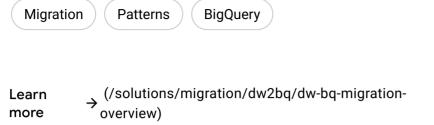
Explore use cases, reference architectures, whitepapers, best practices, and industry solutions.

Migrating data warehouses to BigQuery Learn patterns and recommendations for transitioning your onpremises data warehouse to BigQuery.

USE CASE

Streaming data from Cloud Storage into BigQuery using Cloud Functions

https://cloud.google.com/bigquery/docs 6/11



Learn how to stream new objects from a Cloud Storage bucket into BigQuery by using Cloud Functions.

Learn (/solutions/streaming-data-from-cloud-storage-into-bigquery-using-cloud-functions)

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VISUAIIZING BIGQuery data in a Jupyter notebook

Use the BigQuery Python client library and Pandas in a Jupyter notebook to visualize data in a BigQuery sample table.

Learn more → (/bigquery/docs/visualize-jupyter)

ivianaging nealthcare data access in BigQuery

Explains strategies for securing clinical and operational healthcare data in BigQuery.

Learn more \Rightarrow (/solutions/managing-healthcare-data-access-in-bigquery)

Code samples

Dive into coding with examples that demonstrate how to use and connect Google Cloud services.

https://cloud.google.com/bigquery/docs 7/11

GOOGLE CLOUD

Client: Create credentials with scopes

Create credentials with Drive and BigQuery API scopes.

GOOGLE CLOUD

Client: Create credentials with application default credentials

Create a BigQuery client using application default credentials.

BIGQUERY DOCUMENTATION (#)

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GOOGLE CLOUD

Client: Create with service account key

Create a BigQuery client using a service account key file.

GITHUB

Python samples

Working with BigQuery with the Google Cloud Python client library

Open (https://github.com/googleapis/python-bigquery/tree/master/samples)

GITHUB

GITHUB

Node.js samples

Samples for the Node is client library sfor BigQuery

C# simple sample

A simple C# program and code snippets for interacting with BigQuery

Open GitHub (https://github.com/googleapis/nodejs-bigguery/tree/master/samples)

Open GitHub (https://github.com/GoogleCloudPlatform/dotnet-docs-samples/tree/master/bigguery/api)

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GITHUB

BigQuery and Monitoring on App Engine with Java

8

This API Showcase demonstrates how to run an App Engine standard environment application with dependencies on both BigQuery and Cloud Monitoring.

Open

(https://github.com/GoogleCloudPlatform/java-

GitHu 7 docs-samples/tree/master/appengine-

b java8/bigquery)

GOOGLE CLOUD

All samples

Browse all samples for BigQuery

Get started → (/bigquery/docs/samples)

https://cloud.google.com/bigquery/docs 9/11

Videos

(https://www.youtube.com/watch? v=iz6lxi9BczA) (https://www.youtube.com/watch? v=q9npE4702UI) (https://www.youtube.com/watch? v=0Hd23GnZ1bE)

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YOUTUBE

Strategies for optimizing your BigQuery queries

(https://www.youtube.com/watch? v=iz6lxi9BczA)

Read the blog →
https://goo.gle/3lexNXs Previous
video → https://goo.gle/3y8kFqx Did
you know that optimizing SQL querie...

YOUTUBE

How does query processing work in BigQuery?

(https://www.youtube.com/watch? v=q9npE4702UI)

Read the blog →
https://goo.gle/3iWWSDJ Read the
docs → https://goo.gle/2VjJTn7 Ever
wonder how BigQuery processes you...

YOUTUBE

How does BigQuery store data?

(https://www.youtube.com/watch? v=0Hd23GnZ1bE)

Blog post → https://goo.gle/3iClDVr
Partitioning docs →
https://goo.gle/3xXF4yE Clustering
docs → https://goo.gle/3kGaRQR Ho...

More Y

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