BigQuery 101

https://cloud.google.com/bigquery/

2022/9/25

Karen Hsieh

Karen Hsieh

Director of Platform Product @ ALPHA Camp

Moderator of dbt #local-taipei

A **product manager** builds company-wide data literacy and empowers the product team to create values for people and grow the company.

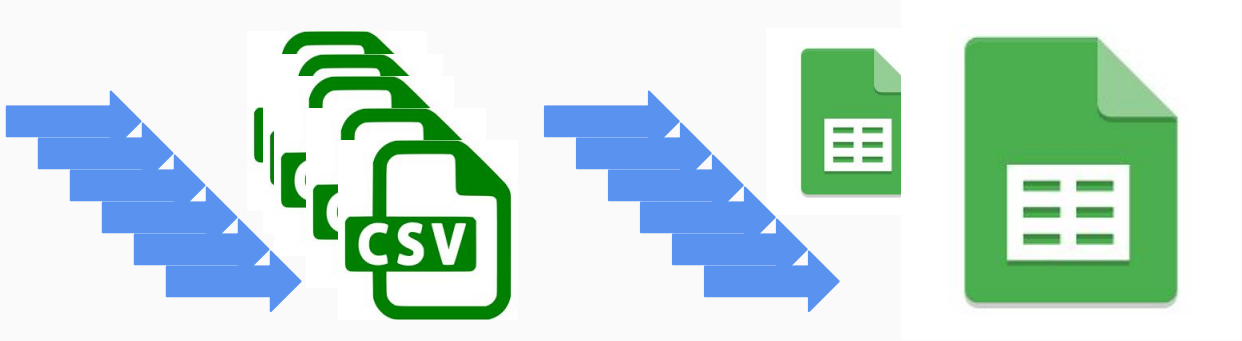
Agenda

- Why use BigQuery?
- How to get started?
- What do I use on BigQuery?
- What do you do?

Why use BQ?

Started from waiting too long.... ⏳

When I needed to check few numbers, download csv from backstages.
It’s easy but not FUN if repeated > 5 times.



SQL

```
SELECT
        month,
        SUM(revenue) AS revenue
FROM revenue_raw
GROUP BY 1
ORDER BY 1
```

It’s easy. Just like a sentence.

Concept is similar to the pivot table.

It’s so FAST.

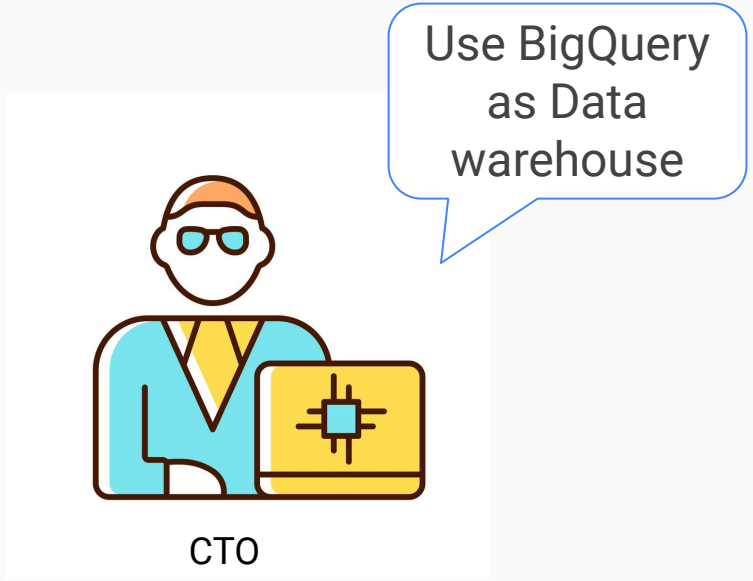
- https://www.w3schools.com/sql/
- https://app.datacamp.com/learn/courses
- SQL 14 days (Chinese)

How to use SQL?

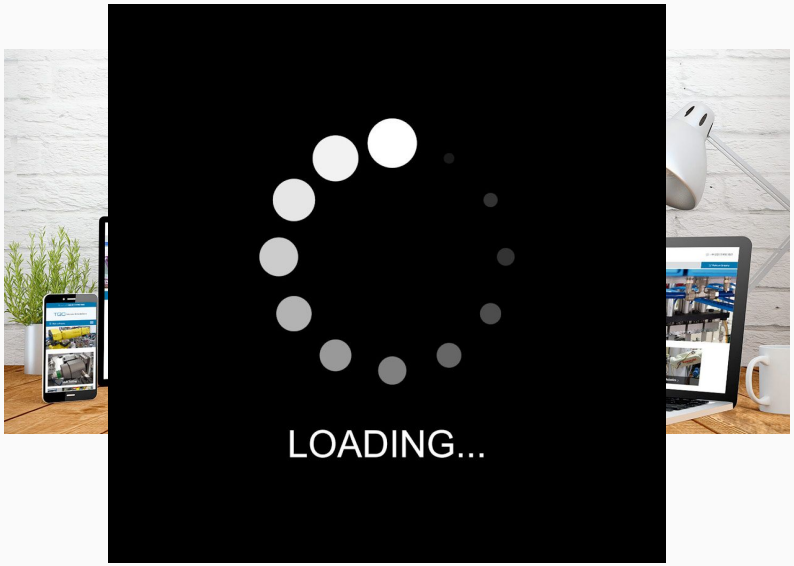
+

=

Where is the data? How can I get?
Where can I use SQL?



Since data is from our production, can I….



Get data from production!

“Are you querying data? 😜

OLTP is very different from OLAP

Cloud Data Warehouse Benchmark Redshift vs Snowflake vs BigQuery | Fivetran explains more details by George Fraser

How to get started?

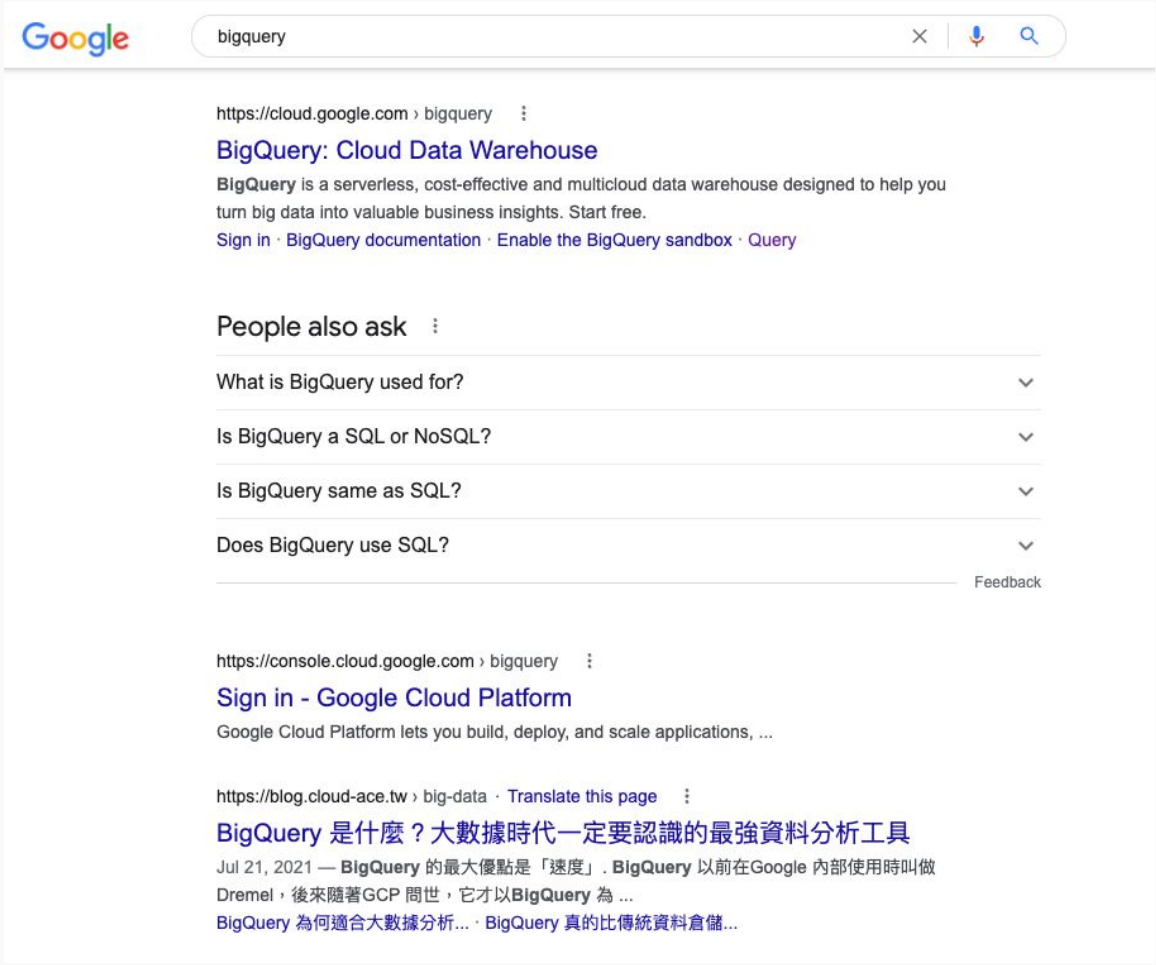
What is BigQuery?

What is Data Warehouse?

What is Google Cloud Platform?

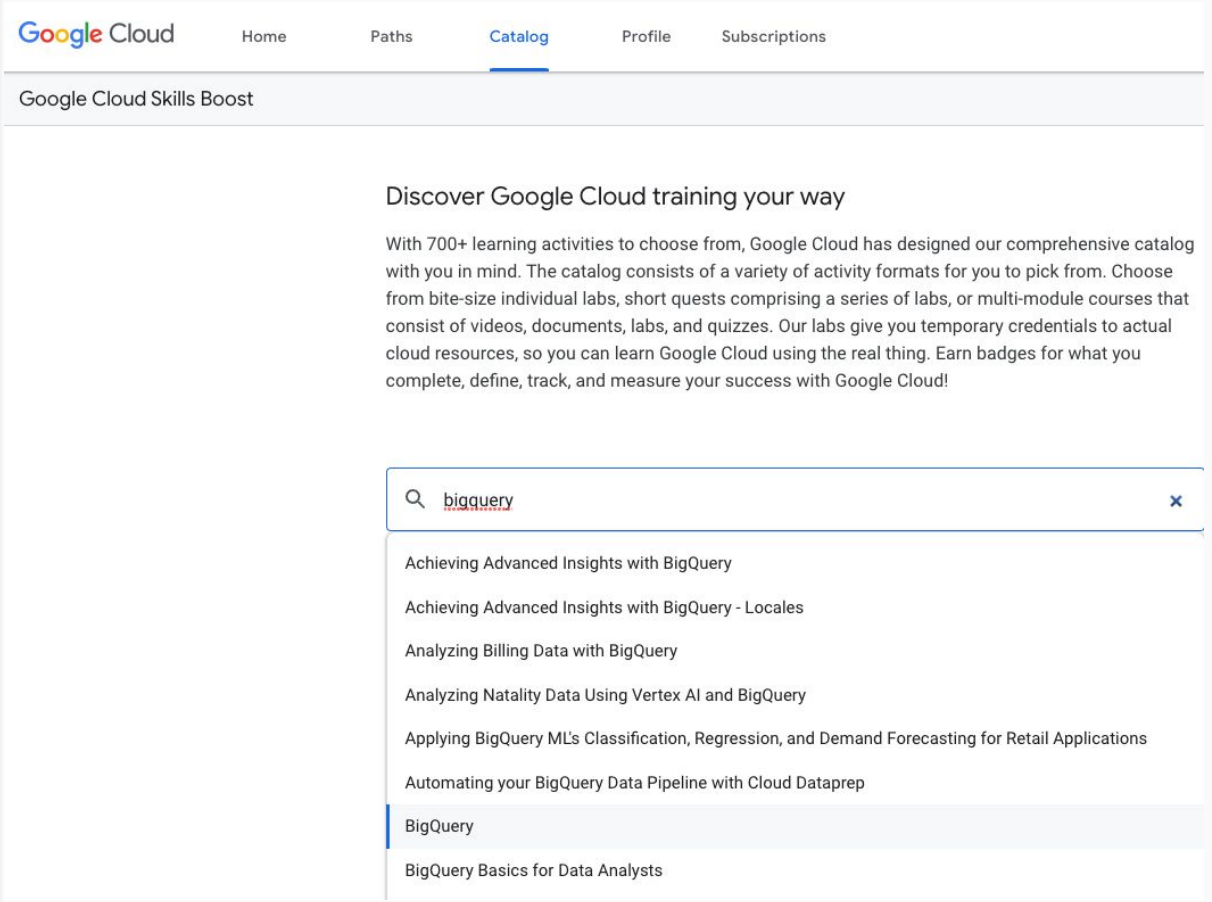
.....

😅more unknown



Just do it 😆

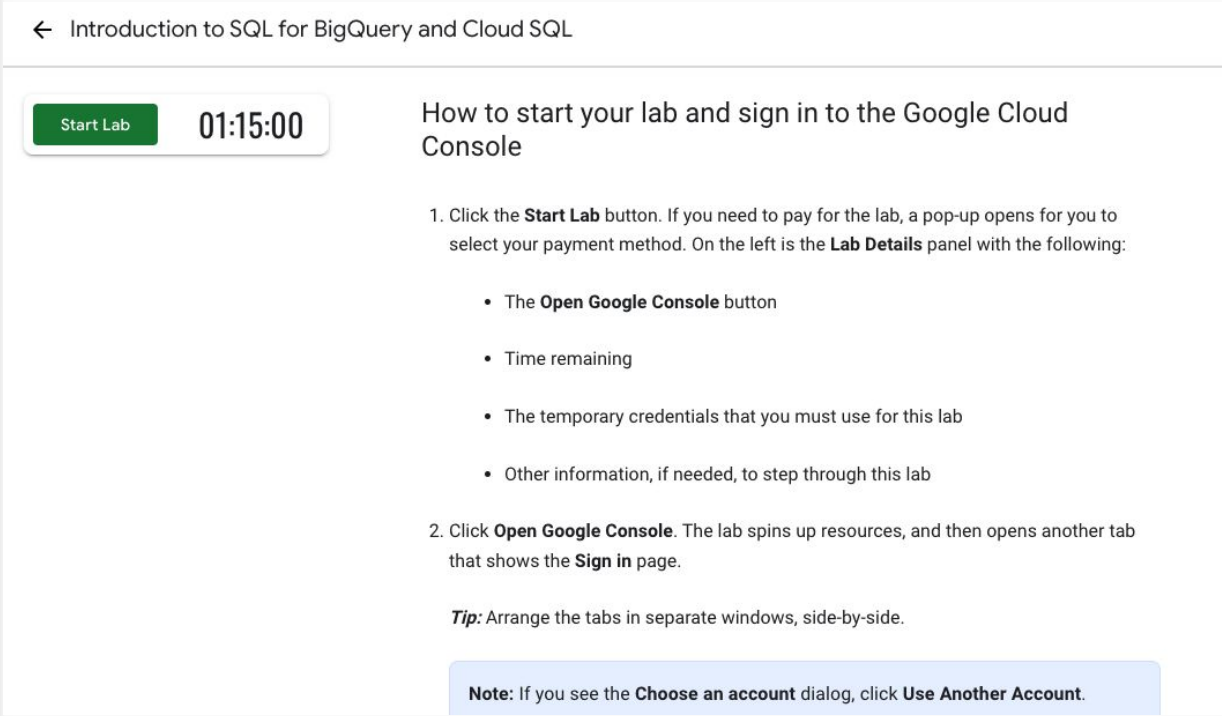
Using BigQuery right away



QWIKLABS

[BigQuery Basics for Data Analysts | Google Cloud Skills Boost]

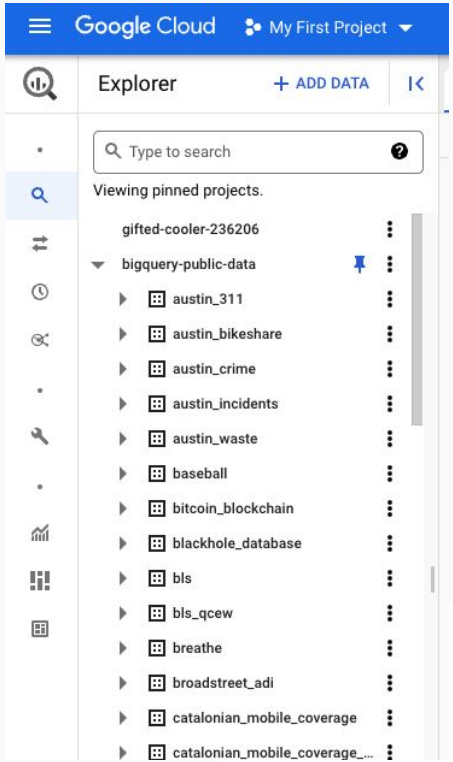
- Clear guidance
- Try BigQuery
- Copy & Paste the SQL code

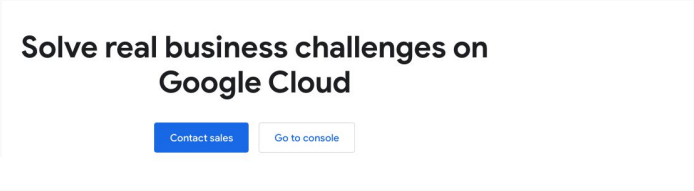


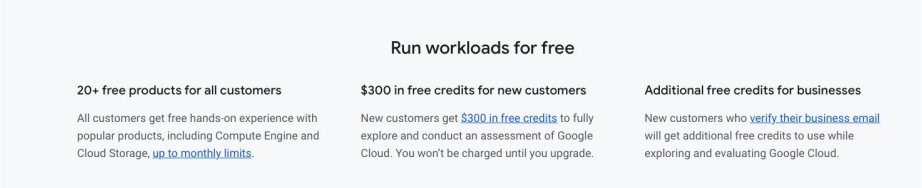
Free Trial
+ Public data

- Free Trial
- BigQuery public datasets

Almost $0 even after trail according to my usage.

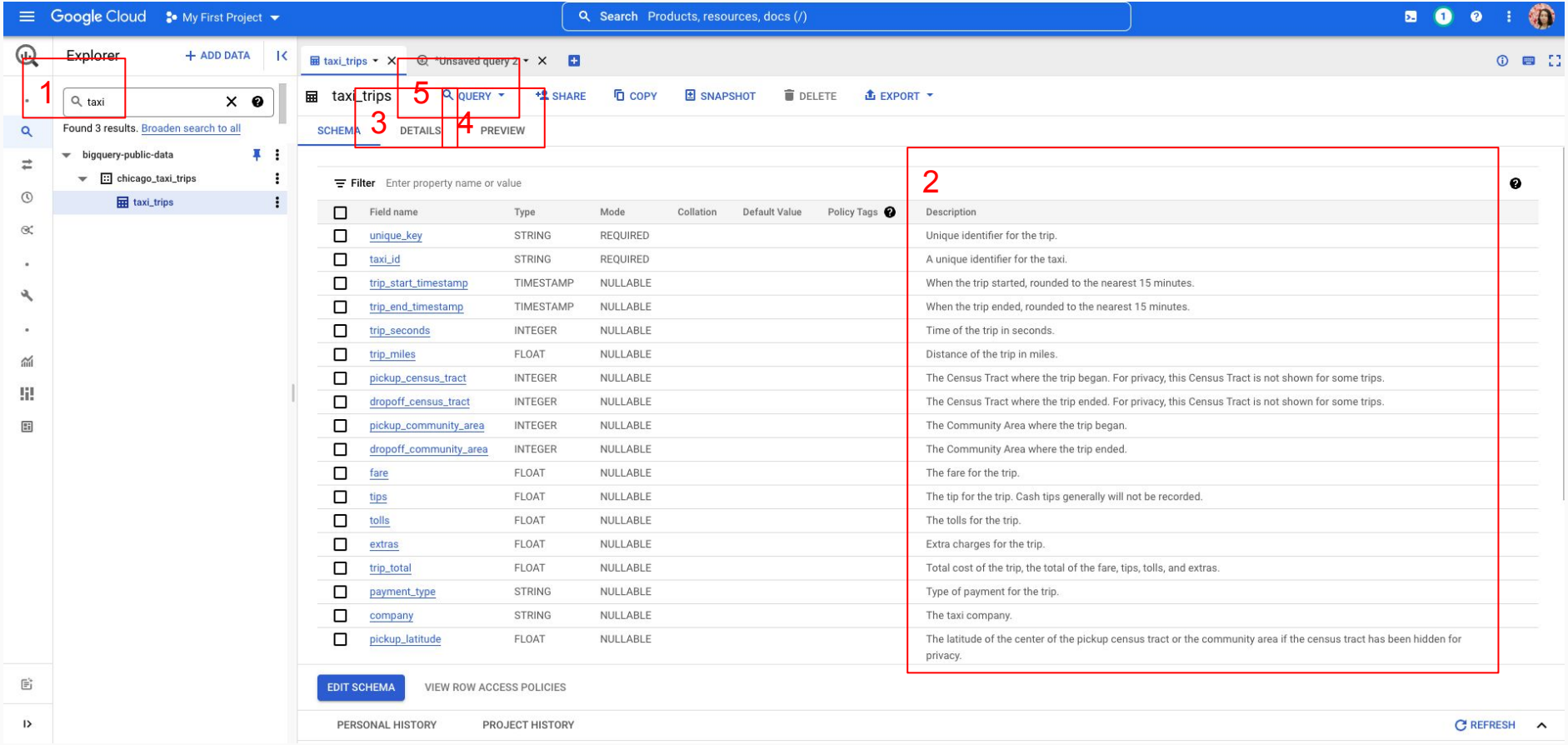






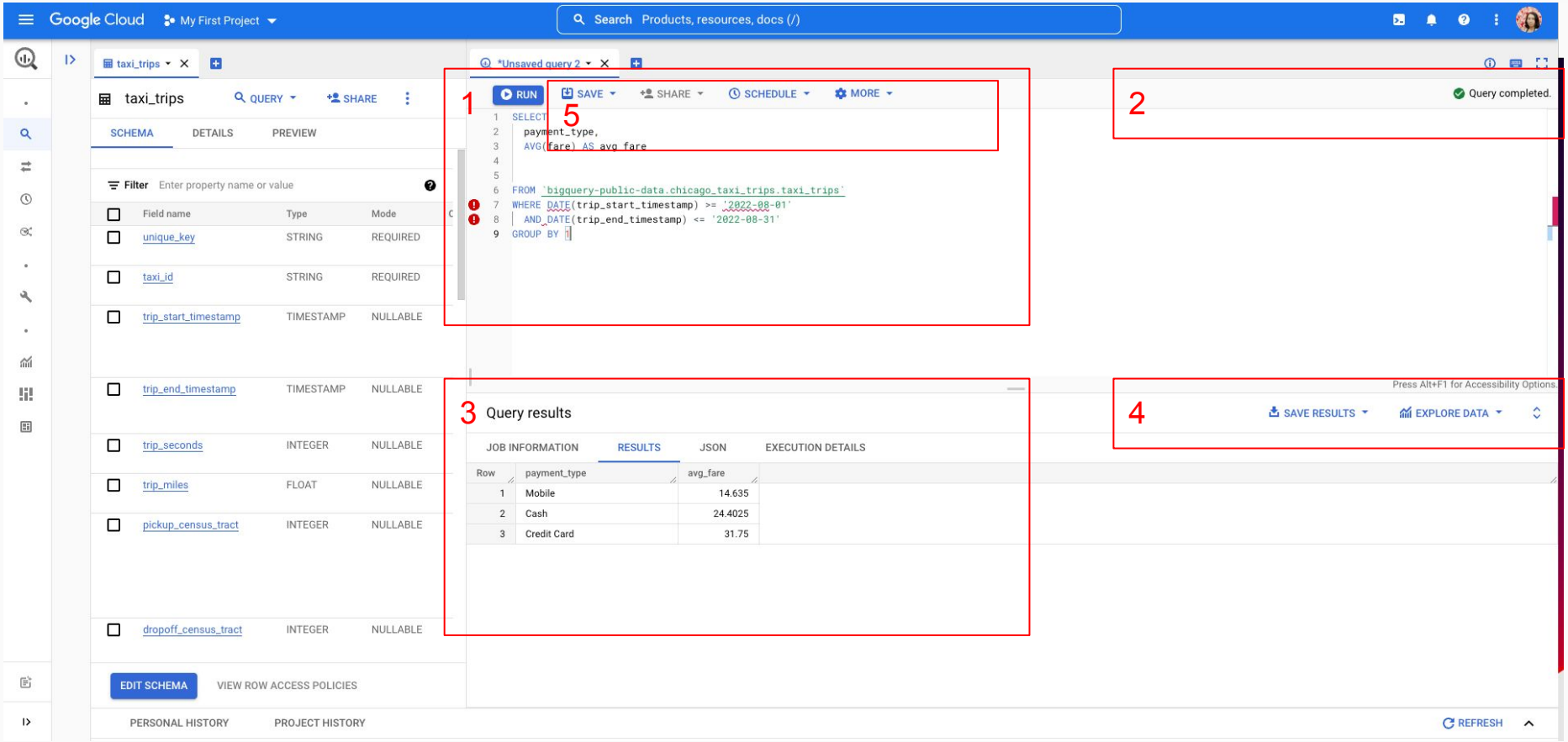
UI friendly - view

DEMO



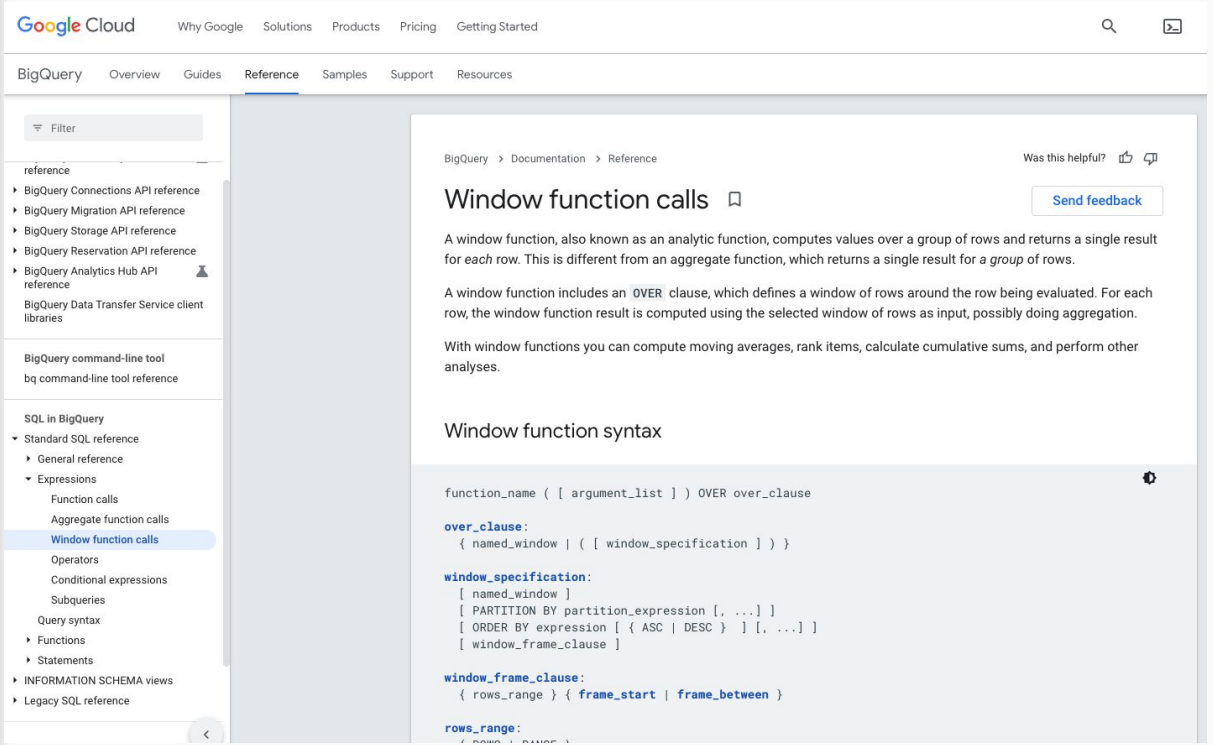
UI friendly - query

DEMO



SQL in BigQuery

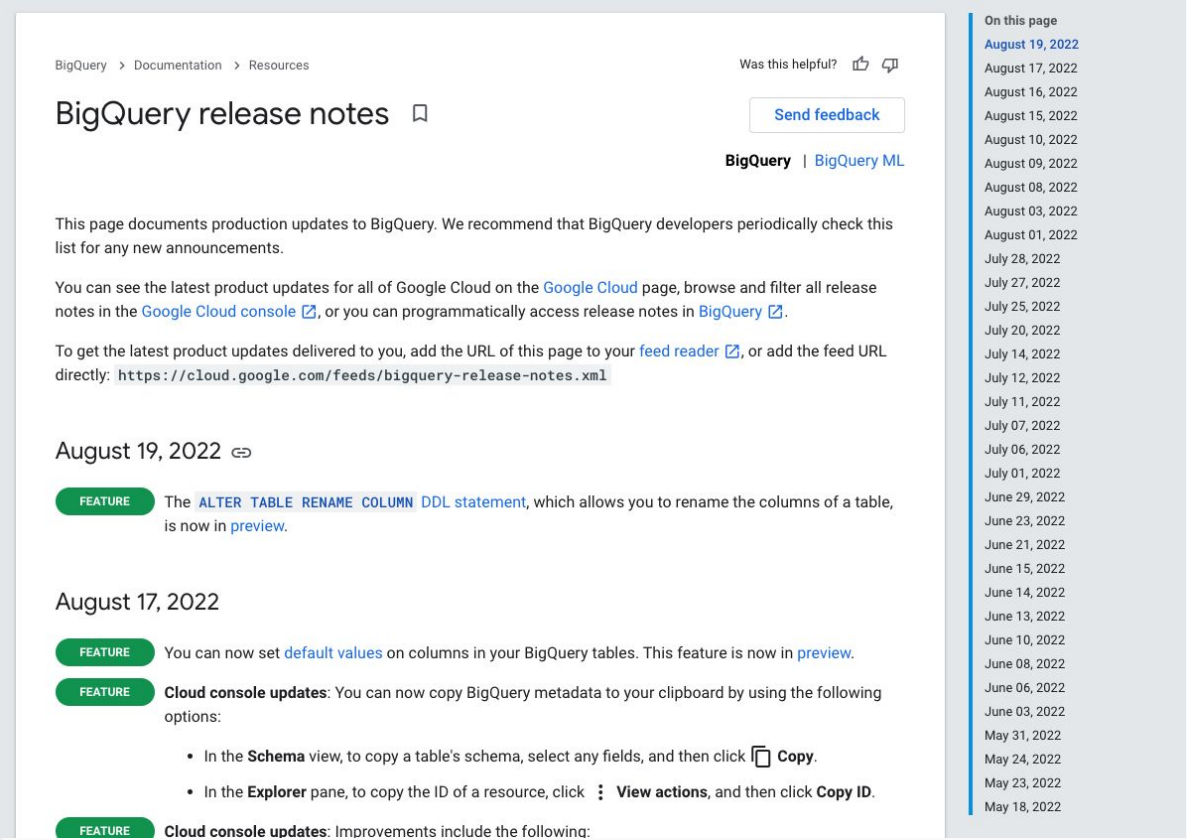
- Window function
- Array & Struct



Keep Update 💪

https://cloud.google.com/bigquery/docs/release-notes

- Easier to use
- More integrations
  - GA4
  - Google Spreadsheet
  - Data Studio
  - BQ ML
- Query functions



BigQuery > Documentation > Resources

Was this helpful?

BigQuery release notes

Send feedback

BigQuery | BigQuery ML

This page documents production updates to BigQuery. We recommend that BigQuery developers periodically check this list for any new announcements.

You can see the latest product updates for all of Google Cloud on the Google Cloud page, browse and filter all release notes in the Google Cloud console, or you can programmatically access release notes in BigQuery.

To get the latest product updates delivered to you, add the URL of this page to your feed reader, or add the feed URL directly: `https://cloud.google.com/feeds/bigquery-release-notes.xml`

August 19, 2022

FEATURE The `ALTER TABLE RENAME COLUMN` DDL statement, which allows you to rename the columns of a table, is now in preview.

August 17, 2022

FEATURE You can now set default values on columns in your BigQuery tables. This feature is now in preview.

FEATURE **Cloud console updates**: You can now copy BigQuery metadata to your clipboard by using the following options:

- In the **Schema** view, to copy a table's schema, select any fields, and then click **Copy**.
- In the **Explorer** pane, to copy the ID of a resource, click **View actions**, and then click **Copy ID**.

FEATURE **Cloud console updates**: Improvements include the following:

On this page

August 19, 2022
August 17, 2022
August 16, 2022
August 15, 2022
August 10, 2022
August 09, 2022
August 08, 2022
August 03, 2022
August 01, 2022
July 28, 2022
July 27, 2022
July 25, 2022
July 20, 2022
July 14, 2022
July 12, 2022
July 11, 2022
July 07, 2022
July 06, 2022
July 01, 2022
June 29, 2022
June 23, 2022
June 21, 2022
June 15, 2022
June 14, 2022
June 13, 2022
June 10, 2022
June 08, 2022
June 06, 2022
June 03, 2022
May 31, 2022
May 24, 2022
May 23, 2022
May 18, 2022

What do I use on BQ?

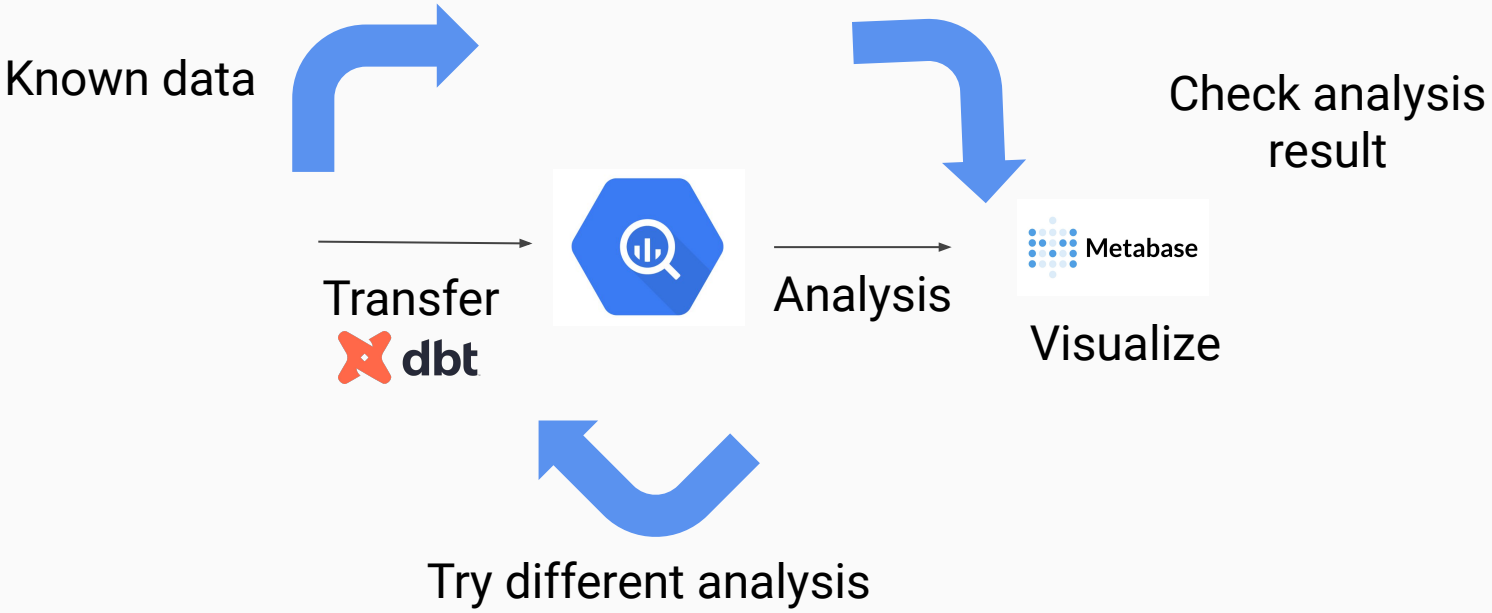
Data warehouse + computing

It’s ok to be a black box.

I don’t need to understand.

It’s fast ⚡ for exploring data

Insights 💡



What do you do?

Start Now

Google Cloud Training

- Google Cloud Courses and Training
- Google Cloud Training on Coursera
- Tutorials | BigQuery | Google Cloud
- Data Cloud Summit

Thank you

Welcome connect 👋
linkedin.com/in/karenhsieh

Q&A

Raise your hand 🙋🙋🙋

Register for Coalesce 2022

The Analytics Engineering Conference

Coalesce Online
October 17-21, Online
FREE
The main experience you know and love.
Visit **coalesce.getdbt.com/register**

Coalesce Online +
London, 20 October 2022
Sydney, 21 October 2022

Coalesce Hub
October 17-21, New Orleans
Our first time together, in person!

dbt

coalesce

The Analytics Engineering Conference

hosted by dbt Labs

Karen Hsieh

She/Her

Director of Platform Product, ALPHA Camp

COALESCE ONLINE

How to build data accessibility for everyone

Thank you

Welcome connect 👋
linkedin.com/in/karenhsieh

Q&A

Raise your hand 🙋🙋🙋