

An abstract graphic featuring a network of interconnected nodes and lines. The nodes are represented by circles in various colors: teal, orange, black, and white. The lines connecting them are also in these colors, creating a complex web-like structure. The background is a light blue-grey color. The graphic is positioned in the top-left and bottom-right corners of the slide.

# ALIA TUNGGGA DEWI

DATA ANALYTICS  
MINICOURSES - RevoU



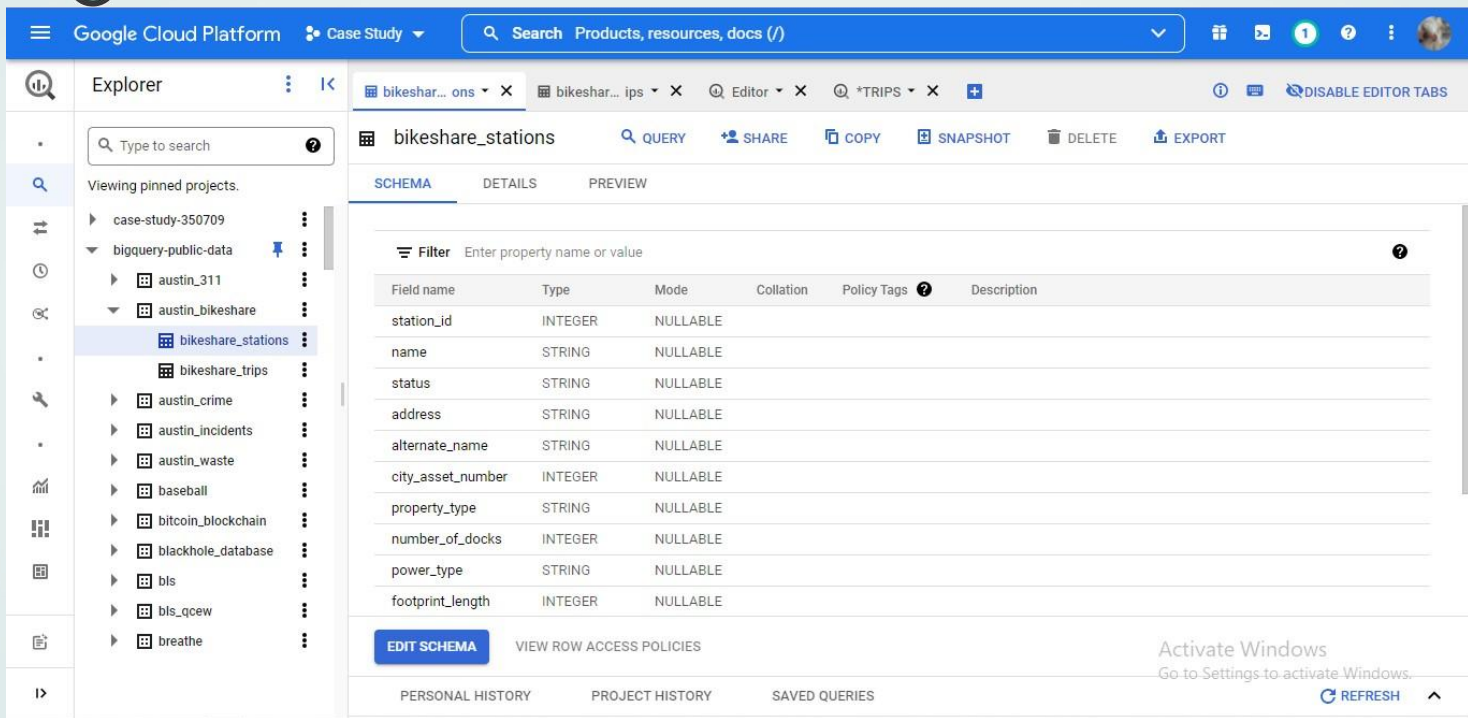
# CASE STUDY

Tables of interest:

```
`bigquery-public-data.austin_bikeshare.bikeshare_trips`
```

```
`bigquery-public-data.austin_bikeshare.bikeshare_stations`
```

# QUESTION 1



The screenshot shows the Google Cloud Platform Explorer interface. The left sidebar displays a project tree with the following structure:

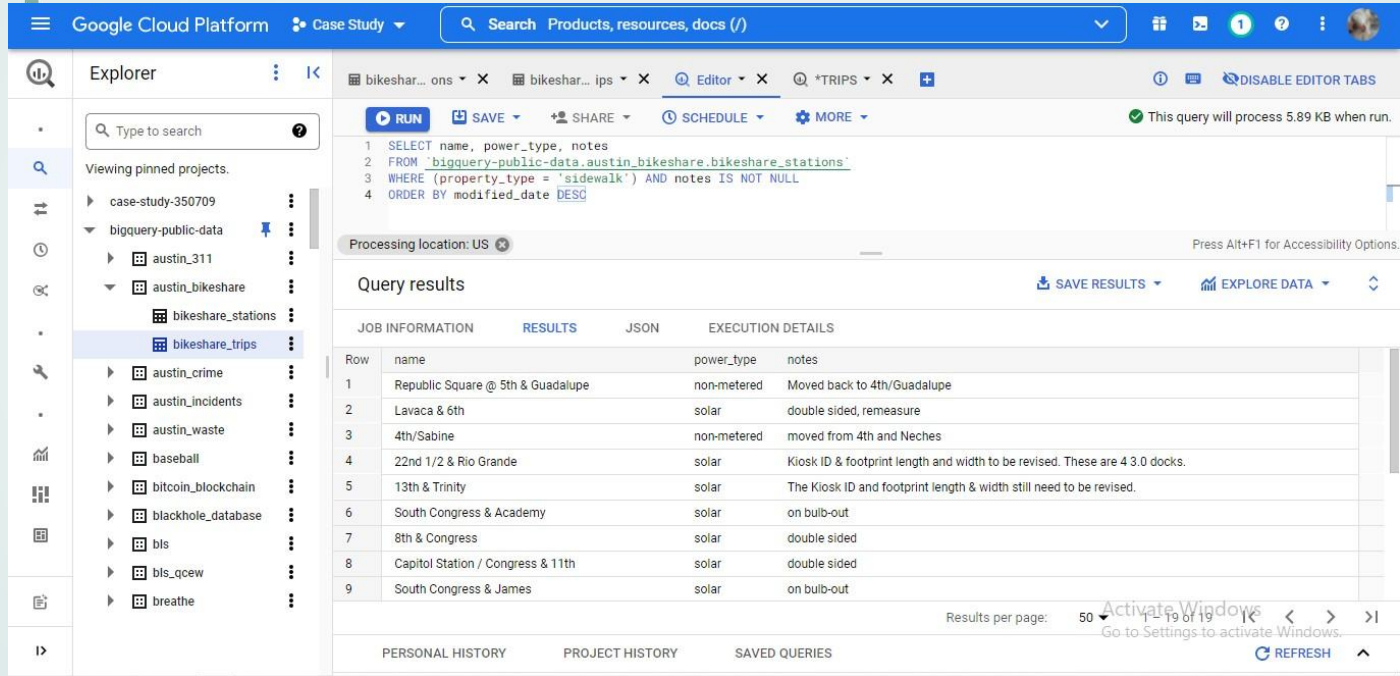
- case-study-350709
  - bigquery-public-data
    - austin\_311
    - austin\_bikeshare
      - bikeshare\_stations**
      - bikeshare\_trips
    - austin\_crime
    - austin\_incidents
    - austin\_waste
    - baseball
    - bitcoin\_blockchain
    - blackhole\_database
    - bls
    - bls\_qcow
    - breathe

The main panel shows the schema for the **bikeshare\_stations** table. The schema is displayed in a table format with the following columns:

Field name	Type	Mode	Collation	Policy Tags	Description
station_id	INTEGER	NULLABLE			
name	STRING	NULLABLE			
status	STRING	NULLABLE			
address	STRING	NULLABLE			
alternate_name	STRING	NULLABLE			
city_asset_number	INTEGER	NULLABLE			
property_type	STRING	NULLABLE			
number_of_docks	INTEGER	NULLABLE			
power_type	STRING	NULLABLE			
footprint_length	INTEGER	NULLABLE			

At the bottom of the schema view, there are buttons for **EDIT SCHEMA** and **VIEW ROW ACCESS POLICIES**. The bottom navigation bar includes **PERSONAL HISTORY**, **PROJECT HISTORY**, and **SAVED QUERIES**. A Windows watermark is visible in the bottom right corner.

# RESULT



The image shows the Google Cloud Platform BigQuery interface. The top navigation bar includes the Google Cloud logo, a search bar, and a user profile icon. The left sidebar contains the Explorer panel, which shows a project named 'case-study-350709' and a dataset named 'bigquery-public-data'. Under 'bigquery-public-data', there is a folder named 'austin\_bikeshare' containing two tables: 'bikeshare\_stations' and 'bikeshare\_trips'. The 'bikeshare\_trips' table is selected.

The main editor area displays a SQL query:

```
1 SELECT name, power_type, notes
2 FROM `bigquery-public-data.austin_bikeshare.bikeshare_stations`
3 WHERE (property_type = 'sidewalk') AND notes IS NOT NULL
4 ORDER BY modified_date DESC
```

Below the query, the 'Query results' section shows the execution details and the resulting data. The 'Query results' section includes a 'Processing location: US' indicator and a 'Press Alt+F1 for Accessibility Options' link. The 'Query results' section also includes a 'SAVE RESULTS' button and an 'EXPLORE DATA' button.

The 'Query results' section displays a table with the following columns: 'name', 'power\_type', and 'notes'. The table contains 9 rows of data:

Row	name	power_type	notes
1	Republic Square @ 5th & Guadalupe	non-metered	Moved back to 4th/Guadalupe
2	Lavaca & 6th	solar	double sided, remeasure
3	4th/Sabine	non-metered	moved from 4th and Neches
4	22nd 1/2 & Rio Grande	solar	Kiosk ID & footprint length and width to be revised. These are 4 3.0 docks.
5	13th & Trinity	solar	The Kiosk ID and footprint length & width still need to be revised.
6	South Congress & Academy	solar	on bulb-out
7	8th & Congress	solar	double sided
8	Capitol Station / Congress & 11th	solar	double sided
9	South Congress & James	solar	on bulb-out

The bottom of the interface shows a 'PERSONAL HISTORY' section with a 'REFRESH' button.

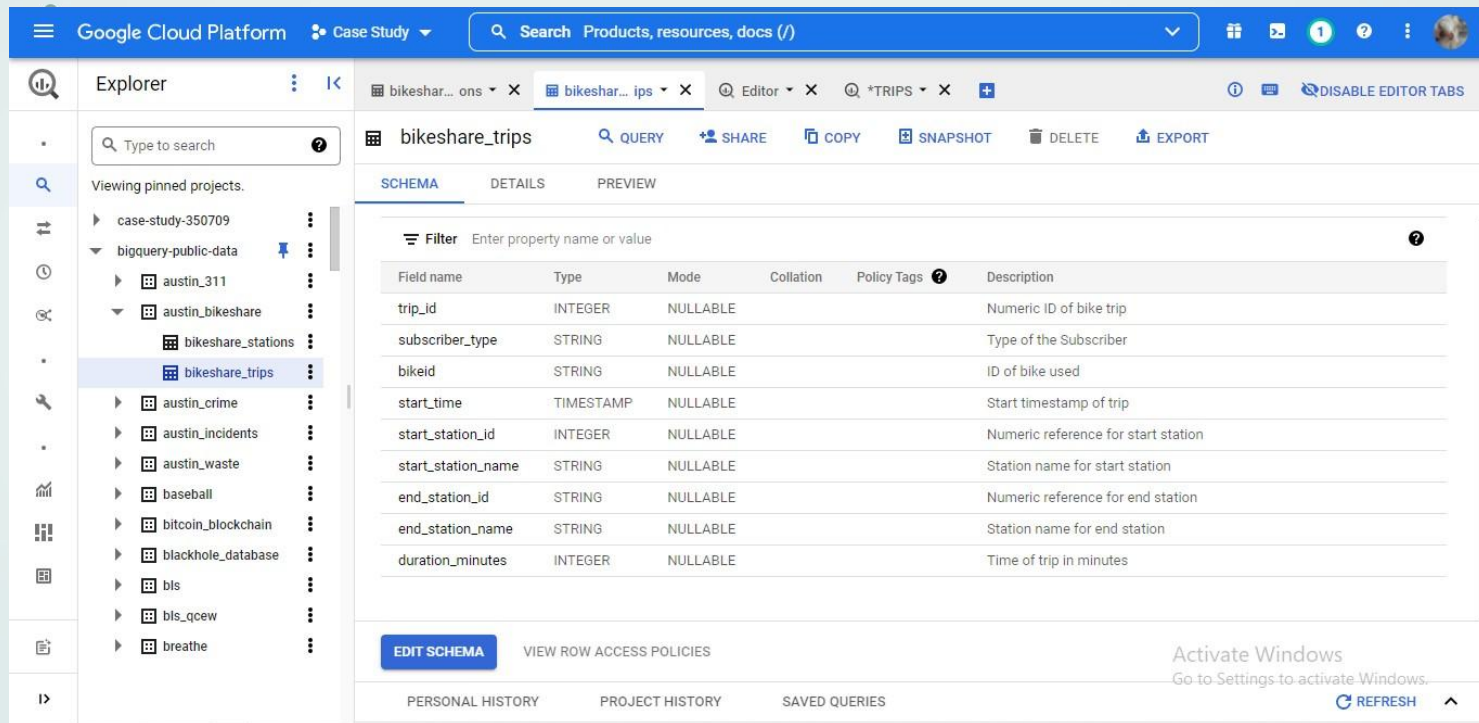
# VISUALIZATION

No.	NAME	POWER TYPE	NOTES
1	Republic Square @ 5th & Guadalupe	non-metered	Moved back to 4th/Guadalupe
2	Lavaca & 6th	solar	double sided, remeasure
3	4th/Sabine	non-metered	moved from 4th and Neches
4	22nd 1/2 & Rio Grande	solar	Kiosk ID & footprint length and width to be revised. These are 4 3.0 docks.
5	13th & Trinity	solar	The Kiosk ID and footprint length & width still need to be revised.
6	South Congress & Academy	solar	on bulb-out
7	8th & Congress	solar	double sided
8	Capitol Station / Congress & 11th	solar	double sided
9	South Congress & James	solar	on bulb-out
10	Barton Springs @ Kinney Ave	solar	2-sided station on pad adjacent to sidewalk in ROW/easement
11	6th & Congress	solar	remeasure
12	21st & Speedway @PCL	solar	On UT property-2 sided
13	23rd & San Jacinto @ DKR Stadium	solar	On UT property-2 sided
14	Red River & 8th Street	solar	on pad built in ROW/easement
15	Plaza Saltillo	solar	on station plaza
16	State Capitol Visitors Garage @ San Jacinto & 12th	solar	state property?
17	Palmer Auditorium	solar	adjacent to parkland
18	Pfluger Bridge @ W 2nd Street	solar	adjacent to parkland
19	City Hall / Lavaca & 2nd	solar	check dock #-18?

## INSIGHT

Di dapatkan hasil stasiun pengisian bahan bakar yang posisinya berada di dekat trotoar. Dengan rata-rata jenis bahan bakar berupa "Solar".

# QUESTION 2



The screenshot displays the Google Cloud Platform interface, specifically the BigQuery Explorer and Schema view for the `bikeshare_trips` table. The interface includes a top navigation bar with the Google Cloud Platform logo, a search bar, and a user profile icon. The left sidebar shows the Explorer view with a search bar and a list of pinned projects, including `case-study-350709` and `bigquery-public-data`. The main content area shows the Schema view for the `bikeshare_trips` table, which includes a filter bar and a table of fields with their respective types, modes, collations, policy tags, and descriptions. An "Activate Windows" watermark is visible in the bottom right corner.

Google Cloud Platform Case Study Search Products, resources, docs (/)

Explorer

Viewing pinned projects.

- case-study-350709
  - bigquery-public-data
    - austin\_311
    - austin\_bikeshare
      - bikeshare\_stations
      - bikeshare\_trips**
      - austin\_crime
      - austin\_incidents
      - austin\_waste
      - baseball
      - bitcoin\_blockchain
      - blackhole\_database
      - bis
      - bis\_qcew
      - breathe

bikeshare\_trips QUERY SHARE COPY SNAPSHOT DELETE EXPORT

SCHEMA DETAILS PREVIEW

Filter Enter property name or value

Field name	Type	Mode	Collation	Policy Tags	Description
trip_id	INTEGER	NULLABLE			Numeric ID of bike trip
subscriber_type	STRING	NULLABLE			Type of the Subscriber
bikeid	STRING	NULLABLE			ID of bike used
start_time	TIMESTAMP	NULLABLE			Start timestamp of trip
start_station_id	INTEGER	NULLABLE			Numeric reference for start station
start_station_name	STRING	NULLABLE			Station name for start station
end_station_id	STRING	NULLABLE			Numeric reference for end station
end_station_name	STRING	NULLABLE			Station name for end station
duration_minutes	INTEGER	NULLABLE			Time of trip in minutes

EDIT SCHEMA VIEW ROW ACCESS POLICIES

PERSONAL HISTORY PROJECT HISTORY SAVED QUERIES

Activate Windows  
Go to Settings to activate Windows.  
REFRESH



# RESULT

Google Cloud Platform

Case Study

Search Products, resources, docs (/)

Explorer

Type to search

Viewing pinned projects.

case-study-350709

bigquery-public-data

austin\_311

austin\_bikeshare

bikeshare\_stations

bikeshare\_trips

austin\_crime

austin\_incidents

austin\_waste

baseball

bitcoin\_blockchain

blackhole\_database

bls

bls\_qcaw

breathe

bikeshar... ons

bikeshar... ips

Editor

\*TRIPS

RUN

SAVE

SHARE

SCHEDULE

MORE

This query will process 104.18 MB when run.

```
1 SELECT bikeid, start_time, start_station_name, end_station_name, duration_minutes
2 FROM `bigquery-public-data.austin_bikeshare.bikeshare_trips`
3 ORDER BY start_time ASC
4 LIMIT 20
```

Processing location: US

Press Alt+F1 for Accessibility Options.

Query results

SAVE RESULTS

EXPLORE DATA

JOB INFORMATION

RESULTS

JSON

EXECUTION DETAILS

Row	bikeid	start_time	start_station_name	end_station_name	duration_minutes
1	36	2013-12-21 09:12:00 UTC	8th & Congress	Capitol Station / Congress & 11th	5
2	966	2013-12-21 09:12:00 UTC	4th & Congress	Republic Square	5
3	101	2013-12-21 10:12:00 UTC	Republic Square	South Congress & James	19
4	252	2013-12-21 13:12:00 UTC	Capitol Station / Congress & 11th	Capitol Station / Congress & 11th	4
5	252	2013-12-21 13:12:00 UTC	Capitol Station / Congress & 11th	Capitol Station / Congress & 11th	1
6	125	2013-12-21 13:12:00 UTC	Capitol Station / Congress & 11th	Capitol Station / Congress & 11th	9
7	287	2013-12-21 13:12:00 UTC	5th & Bowie	4th & Congress	12
8	843	2013-12-21 14:12:00 UTC	2nd & Congress	South Congress & James	23
9	823	2013-12-21 14:12:00 UTC	Capitol Station / Congress & 11th	Capitol Station / Congress & 11th	4

Results per page: 50 1 - 20 of 20 < > |

PERSONAL HISTORY PROJECT HISTORY SAVED QUERIES

REFRESH

# VISUALIZATION

No.	BIKE ID	START TIME	START STATION NAME	END STATION NAME	DURATION (mnt)
1	36	2013-12-21T09:12:00Z	8th & Congress	Capitol Station / Congress & 11th	5
2	966	2013-12-21T09:12:00Z	4th & Congress	Republic Square	5
3	101	2013-12-21T10:12:00Z	Republic Square	South Congress & James	19
4	252	2013-12-21T13:12:00Z	Capitol Station / Congress & 11th	Capitol Station / Congress & 11th	4
5	252	2013-12-21T13:12:00Z	Capitol Station / Congress & 11th	Capitol Station / Congress & 11th	1
6	125	2013-12-21T13:12:00Z	Capitol Station / Congress & 11th	Capitol Station / Congress & 11th	9
7	287	2013-12-21T13:12:00Z	5th & Bowie	4th & Congress	12
8	843	2013-12-21T14:12:00Z	2nd & Congress	South Congress & James	23
9	823	2013-12-21T14:12:00Z	Capitol Station / Congress & 11th	Capitol Station / Congress & 11th	4
10	306	2013-12-21T14:12:00Z	2nd & Congress	South Congress & James	22
11	287	2013-12-21T14:12:00Z	4th & Congress	5th & Bowie	5
12	971	2013-12-21T14:12:00Z	City Hall / Lavaca & 2nd	5th & Bowie	6
13	80	2013-12-21T14:12:00Z	Republic Square	5th & Bowie	3
14	282	2013-12-21T14:12:00Z	South Congress & James	Capitol Station / Congress & 11th	24
15	446	2013-12-21T14:12:00Z	South Congress & James	South Congress & James	48
16	101	2013-12-21T14:12:00Z	South Congress & James	South Congress & James	4
17	49	2013-12-21T14:12:00Z	South Congress & James	Capitol Station / Congress & 11th	20
18	287	2013-12-21T14:12:00Z	5th & Bowie	Republic Square	3
19	302	2013-12-21T14:12:00Z	5th & Bowie	City Hall / Lavaca & 2nd	5
20	125	2013-12-21T14:12:00Z	Capitol Station / Congress & 11th	Capitol Station / Congress & 11th	35

RUN SAVE SHARE SCHEDULE MORE		
1 SELECT COUNT(bikeid), AVG(duration_minutes)		
2 FROM `bigquery-public-data.austin_bikeshare.bikeshare_trips`		
Query results		
JOB INFORMATION RESULTS JSON EXECUTION DETAILS		
Row	f0_	f1_
1	1583120	30.759179413614682

## INSIGHT

Di dapatkan hasil perlombaan sepeda. Dengan jumlah peserta berjumlah 1,583,120. dimana peserta pertama mulai pertandingan pada pukul 09:12 waktu setempat dan rata-rata durasi yang ditempuh 30,76 menit.



The background is a light blue-grey color. It features several abstract geometric elements: thick lines in orange, teal, and white that connect circular nodes. Some nodes are solid circles, while others are white circles with black outlines. Scattered throughout the background are numerous small circles in white, black, teal, and orange. The overall style is modern and minimalist.

THANK YOU