

Build a Data Warehouse with BigQuery Challenge Lab

GSP340



Google Cloud Self-Paced Labs

Note:

- The Tasks are assigned *dynamically*.



Contents

Build a Data Warehouse with BigQuery: Challenge L



02:14:03

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Username
student-02-3a7c1af9b114e

Password
R8ZXk0o0aJZ0

Project_ID
qwiklabs-gcp-04-e6be771e

Task 1

Create a table partitioned by date

The starting point for the machine learning model will be the **oxford_policy_tracker** table in the [COVID 19 Government Response public dataset](#) which contains details of different actions taken by governments to curb the spread of Covid-19 in their jurisdictions.

Given the fact that there will be models based on a range of time periods, you have to create a dataset and then create a date partitioned version of the **oxford_policy_tracker** table in your newly created dataset, with an expiry time set to 2175 days.

While creating a table, you have also been instructed to exclude the United Kingdom (alpha_3_code=**GBR**), Brazil (alpha_3_code=**BRA**), Canada (alpha_3_code=**CAN**) & the United States of America (alpha_3_code=**USA**) as these will be subject to more in-depth analysis through nation and state specific analysis.

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https://console.cloud.google.com/home/dashboard?project=qwiklabs-gcp-04-e6be771ae09a&pli=1&cloudshell=true | 3

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Welcome to Cloud Shell! Type "help" to get started, or type "gemini" to try prompting with Gemini CLI. Your Cloud Platform project in this session is set to **qwiklabs-gcp-04-e6be771ae09a**. Use `gcloud config set project [PROJECT_ID]` to change to a different project.

```
student_02_3a7c1af9b114@cloudshell:~ (qwiklabs-gcp-04-e6be771ae09a)$ export DATASET_NAME_1=covid
export DATASET_NAME_2=covid_data
student_02_3a7c1af9b114@cloudshell:~ (qwiklabs-gcp-04-e6be771ae09a)$ bq mk --dataset $DEVSHELL_PROJECT_ID:covid

bq query --use_legacy_sql=false \
"
CREATE OR REPLACE TABLE $DATASET_NAME_1.oxford_policy_tracker
PARTITION BY date
OPTIONS(
partition_expiration_days=2175,
description='oxford_policy_tracker table in the COVID 19 Government Response public dataset with expiry time set to 2175 days.'
) AS
SELECT
*
FROM
`\`bigquery-public-data.covid19_govt_response.oxford_policy_tracker\``
WHERE
alpha_3_code NOT IN ('GBR', 'BRA', 'CAN', 'USA')
"
Dataset 'qwiklabs-gcp-04-e6be771ae09a:covid' successfully created.
Waiting on bqjob_r5c294995a79c7118_0000019b16a271d2_1 ... (8s) Current status: DONE
Created qwiklabs-gcp-04-e6be771ae09a.covid.oxford_policy_tracker

student_02_3a7c1af9b114@cloudshell:~ (qwiklabs-gcp-04-e6be771ae09a)$
```

Dashboard – qwiklabs-gcp-04-e6b... covid_data – BigQuery – qwiklab... + https://console.cloud.google.com/bigquery?project=qwiklabs-gcp-04-e6be771ae09a&ws=!1m4!1m3!3m2!1sqwiklabs-gcp-04-e6be771ae... | 2

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Pipelines & Integration Data transfers Dataform Scheduled queries Scheduling Governance Sharing (Analytics Hub) Policy tags Metadata curation Administration Partner Center Settings Preview Release Notes

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qwiklabs-gcp-04-e6be771ae09a / Datasets / covid_data covid_data ☆ + Create Table Share Copy Delete Refresh

Overview Details Tables Models Routines Filter Enter property name or value

Table ID	Type	Create time	Expiration time
consolidate_covid_tracker_data	Table	Dec 13, 2023	None
oxford_policy_tracker_worldwide	Table	Dec 13, 2023	None

Rows per page: 50 1 – 2 of 2 Job history Show

Finance headline India reported 1... Search

ENG US 01:06 PM 13-12-2025

Dashboard – qwiklabs-gcp-04-e6b... BigQuery – qwiklabs-gcp-04-e6b... +

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BigQuery

Overview Preview Studio

Pipelines & Integration Data transfers Dataform Scheduled queries Scheduling

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qwiklabs-gcp-04-e6be771ae09a / Datasets / covid_data / Tables / consolidate_covid_tracker_data

consolidate_c... Query Open in Share Copy Snapshot Delete

This is a partitioned table. Learn more Dismiss

Schema Details Preview Table Explorer Preview Insights Lineage Data Profile Data Quality

Filter Enter property name or value

Field name	Type	Mode	Description	Key	Collation	De
country_name	STRING	NULLABLE	-	-	-	-
alpha_3_code	STRING	NULLABLE	-	-	-	-
region_name	STRING	NULLABLE	-	-	-	-
region_code	STRING	NULLABLE	-	-	-	-
date	DATE	NULLABLE	-	-	-	-
school_closing	STRING	NULLABLE	-	-	-	-
school_closing_flag	STRING	NULLABLE	-	-	-	-

Edit schema View row access policies

Job history Show

4 Trending videos The Hunger Ga...

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Username

student-02-3a7c1af9b114e



Password

R8ZXk0o0aJZ0



Project_ID

qwiklabs-gcp-04-e6be771e



Task 2

Populate the mobility record data

In this task, you need to add the **mobility** record data, which requires to extract average values for the six component fields that comprise the mobility record data from the **mobility_report** table from the [Google COVID 19 Mobility public dataset](#).

Your coworker has also given you a SQL snippet that is currently being used to analyze trends in the Google Mobility data daily mobility patterns. You might need to use this as part of the query that will add the daily country data for the mobility record in table provided in the task description.

```
SELECT country_region, date,  
AVG(retail_and_recreation_percent_change_from_baseline) as avg_retail,  
AVG(grocery_and_pharmacy_percent_change_from_baseline) as avg_grocery,
```

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```
ADD COLUMN country_area FLOAT64,  
student_02_3a7c1af9b114@cloudshell:~ (qwiklabs-gcp-04-e6be771ae09a)$ bq query --use_legacy_sql=false \  
"  
UPDATE  
`covid_data.consolidate_covid_tracker_data` t0  
SET  
t0.mobility.avg_retail      = t1.avg_retail,  
t0.mobility.avg_grocery     = t1.avg_grocery,  
t0.mobility.avg_parks       = t1.avg_parks,  
t0.mobility.avg_transit     = t1.avg_transit,  
t0.mobility.avg_workplace   = t1.avg_workplace,  
t0.mobility.avg_residential = t1.avg_residential  
FROM  
SELECT  
country_region,  
date,  
AVG(retail_and_recreation_percent_change_from_baseline) AS avg_retail,  
AVG(grocery_and_pharmacy_percent_change_from_baseline) AS avg_grocery,  
AVG(parks_percent_change_from_baseline) AS avg_parks,  
AVG(transit_stations_percent_change_from_baseline) AS avg_transit,  
AVG(workplaces_percent_change_from_baseline) AS avg_workplace,  
AVG(residential_percent_change_from_baseline) AS avg_residential  
FROM  
`bigquery-public-data.covid19_google_mobility.mobility_report`  
GROUP BY  
country_region,  
date  
) AS t1  
WHERE
```

Finance headline India reported 6... Search

01:19 PM 13-12-2025 ENG US

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```
t0.mobility.avg_retail      = t1.avg_retail,
t0.mobility.avg_grocery     = t1.avg_grocery,
t0.mobility.avg_parks       = t1.avg_parks,
t0.mobility.avg_transit     = t1.avg_transit,
t0.mobility.avg_workplace   = t1.avg_workplace,
t0.mobility.avg_residential = t1.avg_residential
FROM (
  SELECT
    country_region,
    date,
    AVG(retail_and_recreation_percent_change_from_baseline) AS avg_retail,
    AVG(grocery_and_pharmacy_percent_change_from_baseline) AS avg_grocery,
    AVG(parks_percent_change_from_baseline) AS avg_parks,
    AVG(transit_stations_percent_change_from_baseline) AS avg_transit,
    AVG(workplaces_percent_change_from_baseline) AS avg_workplace,
    AVG(residential_percent_change_from_baseline) AS avg_residential
  FROM
    `bigquery-public-data.covid19_google_mobility.mobility_report\` 
  GROUP BY
    country_region,
    date
) AS t1
WHERE
  CONCAT(t0.country_name, t0.date) = CONCAT(t1.country_region, t1.date)
"
Waiting on bqjob_ra787f4d2965d76b_0000019b16ae0e90_1 ... (11s) Current status: DONE
Number of affected rows: 69287

student_02_3a7c1af9b114@cloudshell:~ (qwiklabs-gcp-04-e6be771ae09a)$
```

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Search

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qwiklabs-gcp-04-e6be771ae09a / Datasets / covid_data / Tables / consolidate_covid_tracker_data

consolidate_covid_tracker_data Query Open in Share Copy Snapshot Delete Export Refresh

This is a partitioned table. [Learn more](#)

Schema Details Preview Table Explorer Preview Insights Lineage Data Profile Data Quality

	country_area	FLOAT	NULLABLE	-	-	-	-	-
	mobility	RECORD	NULLABLE	-	-	-	-	-
	avg_retail	FLOAT	NULLABLE	-	-	-	-	-
	avg_grocery	FLOAT	NULLABLE	-	-	-	-	-
	avg_parks	FLOAT	NULLABLE	-	-	-	-	-
	avg_transit	FLOAT	NULLABLE	-	-	-	-	-
	avg_workplace	FLOAT	NULLABLE	-	-	-	-	-
	avg_residential	FLOAT	NULLABLE	-	-	-	-	-

Edit schema View row access policies

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01:21 PM 13-12-2025 ENG US



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? Time limit

End Lab

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Username

student-02-3a7c1af9b114e



Password

R8ZXk0o0aJZ0



Project_ID

qwiklabs-gcp-04-e6be771e



Task 3

Query missing data in population & country_area columns

In this task, you need to find out the countries which do not have population data and countries that do not have country area information.

1. Within the BigQuery dataset named '**covid_data**' contains one table named **oxford_policy_tracker_worldwide**, run a query to find the missing countries in the population and country_area data from '**oxford_policy_tracker_worldwide**' table . The query should list countries that do not have any population data and countries that do not have country area information, ordered by country name. If a country has neither population or country area it must appear twice.

Note: In case you're unable to view pre-created resources in bigquery as per the task description,"your Google Cloud resources are still being provisioned, please refresh the page and try again in a few minutes." If you do, just wait a short time and reload

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```
student_02_3a7c1af9b114@cloudshell:~ (qwiklabs-gcp-04-e6be771ae09a)$ bq query --use_legacy_sql=false \
"
SELECT
    country_name,
    'population' AS missing_column
FROM
    `covid_data.oxford_policy_tracker_worldwide\`
WHERE
    population IS NULL

UNION ALL

SELECT
    country_name,
    'country_area' AS missing_column
FROM
    `covid_data.oxford_policy_tracker_worldwide\`
WHERE
    country_area IS NULL
ORDER BY
    country_name,
    missing_column
"
+-----+-----+
| country_name | missing_column |
+-----+-----+
| Bahamas     | country_area   |
| Bahamas     | country_area   |
| Bahamas     | country_area   |
```

21°C Mostly sunny

Search

01:25 PM 13-12-2025 ENG US

Build a Data Warehouse with BigQuery

https://partner.skills.google/course_templates/624/labs/597938

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Build a Data Warehouse with BigQuery Challenge Lab

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Build a Data Warehouse with BigQuery: Challenge L

End Lab (01:48:20) Time limit

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Open Google Cloud console

Username: student-02-3a7c1af9b114e

Password: R8ZXk0o0aJZ0

Project ID: qwiklabs-gcp-04-e6be771e

Task 4

Create a new table for country population data

In this step, you need to create a copy of **covid_19_geographic_distribution_worldwide** table from **European Center for Disease Control COVID 19 public dataset** into your dataset provided in the task description.

1. Create a new table '**pop_data_2019**' within the dataset named as '**covid_data**'.
The table should initially use the schema defined for the '**covid_19_geographic_distribution_worldwide**' table data from the [European Center for Disease Control COVID 19 public dataset](#).
2. Add the country population data to the '**pop_data_2019**' table with '**covid_19_geographic_distribution_worldwide**' table data from the [European Center for Disease Control COVID 19 public dataset](#).

Note: In case you're unable to view pre-created resources in bigquery as per the task description "your Google Cloud resources are still being provisioned, please refresh"

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GSP340 Overview Challenge scenario Task 1 Task 2 Task 3 Task 4 Tips and tricks Congratulations!

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ENG US

01:29 PM 13-12-2025

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```
| Bahamas      | country_area |
student_02_3a7c1af9b114@cloudshell:~ (qwiklabs-gcp-04-e6be771ae09a)$ # 1) Create pop_data_2019 in covid_data from the ECDC public table
bq query --use_legacy_sql=false \
"
CREATE OR REPLACE TABLE `covid_data.pop_data_2019` AS
SELECT
    country_territory_code,
    pop_data_2019
FROM
    `bigquery-public-data.covid19_ecdc.covid_19_geographic_distribution_worldwide` \
GROUP BY
    country_territory_code,
    pop_data_2019
ORDER BY
    country_territory_code
"
Waiting on bqjob_r5bd3cc118c6149c8_0000019b16b7e73f_1 ... (0s) Current status: DONE
Replaced qwiklabs-gcp-04-e6be771ae09a.covid_data.pop_data_2019

student_02_3a7c1af9b114@cloudshell:~ (qwiklabs-gcp-04-e6be771ae09a)$ bq query --use_legacy_sql=false \
"
UPDATE
    `covid_data.consolidate_covid_tracker_data` t0
SET
    population = t1.pop_data_2019
FROM
    `covid_data.pop_data_2019` t1
WHERE
    TRIM(t0.alpha_3_code) = TRIM(t1.country_territory_code)
```

Top Stories 2 Strict anti-pollut... Search

ENG US 01:30 PM 13-12-2025

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```
SELECT
    country_territory_code,
    pop_data_2019
FROM
    `bigquery-public-data.covid19_ecdc.covid_19_geographic_distribution_worldwide\`
GROUP BY
    country_territory_code,
    pop_data_2019
ORDER BY
    country_territory_code
"
Waiting on bqjob_r5bd3cc118c6149c8_0000019b16b7e73f_1 ... (0s) Current status: DONE
Replaced qwiklabs-gcp-04-e6be771ae09a.covid_data.pop_data_2019

student_02_3a7c1af9b114@cloudshell:~ (qwiklabs-gcp-04-e6be771ae09a)$ bq query --use_legacy_sql=false \
"
UPDATE
    `covid_data.consolidate_covid_tracker_data\` t0
SET
    population = t1.pop_data_2019
FROM
    `covid_data.pop_data_2019\` t1
WHERE
    TRIM(t0.alpha_3_code) = TRIM(t1.country_territory_code)
"
Waiting on bqjob_r716b34342a55e6e_0000019b16b81ef1_1 ... (16s) Current status: DONE
Number of affected rows: 127514

student_02_3a7c1af9b114@cloudshell:~ (qwiklabs-gcp-04-e6be771ae09a)$
```

Top Stories 2 Strict anti-pollut... Search

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- covid

covid_data

- consolidate_covid_tracker_data
- oxford_policy_tracker_worldwide
- pop_data_2019
- pop_data_2019_small

oxford_policy... Query Open in Share Copy Snapshot

This is a partitioned table. [Learn more](#) Dismiss

Schema Details Preview Table Explorer Preview Insights Lineage Data Profile Data Quality

Filter Enter property name or value

Field name	Type	Mode	Description	Key	Collation
country_name	STRING	NULLABLE	-	-	-
alpha_3_code	STRING	NULLABLE	-	-	-
region_name	STRING	NULLABLE	-	-	-
region_code	STRING	NULLABLE	-	-	-
date	DATE	NULLABLE	-	-	-
school_closing	STRING	NULLABLE	-	-	-
school_closing_flag	STRING	NULLABLE	-	-	-

Edit schema View row access policies

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Air: Poor Next Tuesday

Search

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- Repositories
- Queries
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- covid

covid_data

- consolidate_covid_tracker_data
- oxford_policy_tracker_worldwide
- pop_data_2019
- pop_data_2019_small

oxford_... ide pop_da... 019

qwiklabs-gcp-04-e6be771ae09a / Datasets / covid_data / Tables / pop_data_2019

pop_data_2019 Query Open in Share Copy Snapshot Delete Export

Schema Details Preview Table Explorer Preview Insights Lineage Data Profile Data Quality

Filter Enter property name or value

Field name	Type	Mode	Description	Key	Collation	Default Value	Policy Tags
country_territory_code	STRING	NULLABLE	-	-	-	-	-
pop_data_2019	INTEGER	NULLABLE	-	-	-	-	-

Edit schema View row access policies

Job history Show

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Schema Details Preview Table Explorer Preview Insights Lineage Data Profile Data Quality

Filter Enter property name or value

Field name	Type	Mode	Description	Key	Collation	Default Value	Policy Tags
country_territory_code	STRING	NULLABLE	-	-	-	-	-
pop_data_2019	INTEGER	NULLABLE	-	-	-	-	-

Edit schema View row access policies

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