

# Challenge Lab - PDE Prep

## Task 1: Create a custom dataset

Create table

### Source

Create table from  
Google Cloud Storage

Select file from GCS bucket or use a URI pattern \*  
☒ cloud-training/preppde/2018-JasperJasmineMines.csv BROWSE ?

File format  
CSV

☐ Source Data Partitioning

### Destination

Project \*  
qwiklabs-gcp-01-fc3abfca2329 BROWSE

Dataset \*  
JasmineJasper

Table \*  
triplog

Unicode letters, marks, numbers, connectors, dashes or spaces allowed.

Table type  
Native table

### Schema

☐ Auto detect

☒ Edit as text

Press Alt+F1 for Accessibility Options.

```
1  date: integer,origin: string,destination: string,airline: string,miles: float,minutes: integer,duration: string
```

### Partition and cluster settings

Partitioning  
No partitioning

Clustering order

Clustering order determines the sort order of the data. Clustering can be used on both partitioned and non-partitioned tables.

Explorer + ADD DATA

triplog

triplog

SCHEMA DETAILS PREVIEW

Filter Enter property name or value

<input type="checkbox"/>	Field name	Type	Mode	Collation	Default Value	Policy Tags	Description
<input type="checkbox"/>	date	INTEGER	NULLABLE				
<input type="checkbox"/>	origin	STRING	NULLABLE				
<input type="checkbox"/>	destination	STRING	NULLABLE				
<input type="checkbox"/>	airline	STRING	NULLABLE				
<input type="checkbox"/>	miles	FLOAT	NULLABLE				
<input type="checkbox"/>	minutes	INTEGER	NULLABLE				
<input type="checkbox"/>	duration	STRING	NULLABLE				

EDIT SCHEMA VIEW ROW ACCESS POLICIES

## Task 2: Query the dataset

### First Query

Create a query that produces the average trip time for trips originating from the airport in Frankfurt, Germany (FRA) and destined for the airport in Kuala Lumpur, Malaysia (KUL), and group the results by airline. The resulting average times should be similar.

```
SELECT airline, AVG(minutes)
```

```
FROM JasmineJasper.triplog
```

```
WHERE origin = 'FRA' AND destination = 'KUL'
```

```
GROUP BY airline
```

\*Unsaved query 2
+

RUN
SAVE
SHARE
SCHEDULE
MORE

```

1 SELECT airline, AVG(minutes)
2 FROM JasmineJasper.triplog
3 WHERE origin = 'FRA' AND destination = 'KUL'
4 GROUP BY airline

```

### Query results




JOB INFORMATION
RESULTS
JSON
EXECUTION DETAILS






Row	airline	f0_
1	Cargomule Airlines	694.615384...
2	PlanePeople Air	699.180327...
3	Flying Movers	699.199999...

## Second Query

Create a query that produces the average trip time for trips originating from London Heathrow Airport, United Kingdom (LHR) and destined for the airport in Kuala Lumpur, Malaysia (KUL), and group the results by airline, and order them from lowest to highest. The resulting average times should reveal whether the airline, PlanePeople Air, kept its promise to use faster airplanes from Heathrow Airport.

```
SELECT airline, AVG(minutes) as avg
FROM JasmineJasper.triplog
WHERE origin="LHR" AND destination="KUL"
GROUP BY airline
ORDER BY avg ASC
```

 \*Unsaved query 2  

 RUN  SAVE  SHARE  SCHEDULE  MORE

```
1 SELECT airline, AVG(minutes) as avg
2 FROM JasmineJasper.triplog
3 WHERE origin="LHR" AND destination="KUL"
4 GROUP BY airline
5 ORDER BY avg ASC
6
```

## Query results



JOB INFORMATION		RESULTS	JSON	EXECUTION DETAILS
Row	airline	avg		
1	PlanePeople Air	671.51666...		
2	Cargomule Airlines	737.633802...		
3	Flying Movers	742.467741...		

