## A Mini-Project in Big Data Analytics on Google Cloud in Hive BE COMPS

## TITLE:

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**Dataset:** world\_war\_2\_aircrafts

**Attributes:** aircraft\_type

aircraft\_subtype

aircraft\_name

year\_in\_service

country\_of\_origin

operators

## **EXECUTION#**

```
Query#1: To create and describe the table Commands:
```

```
CREATE EXTERNAL TABLE dataset

(aircraft_type VARCHAR(25),

aircraft_subtype VARCHAR(25),

aircraft_name VARCHAR(35),

year_in_service BIGINT,

operators VARCHAR(100))

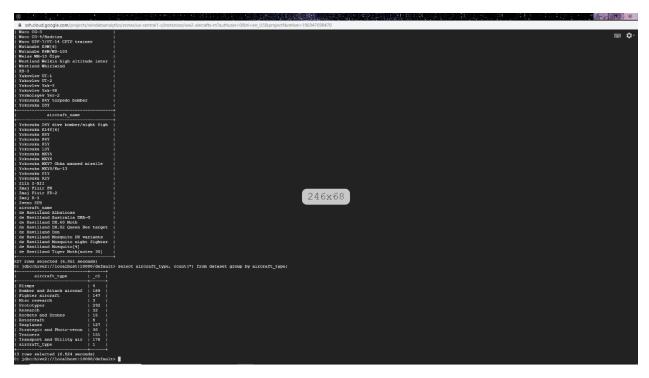
ROW FORMAT DELIMITED FIELDS TERMINATED BY ','

LOCATION 'gs://ww2_csv_bucket/';
```

describe dataset;

```
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**Query#2:** Display the types of aircrafts along with their count **Command:** select distinct aircraft\_type, count(\*) from dataset group by aircraft\_type;



**Query#3:** Display the inaugural years for each aircraft types **Command:** select aircraft\_type, MIN(year\_in\_service) as inaugural\_year from dataset group by aircraft\_type;

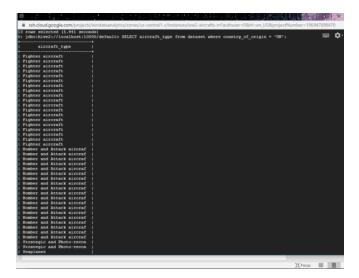


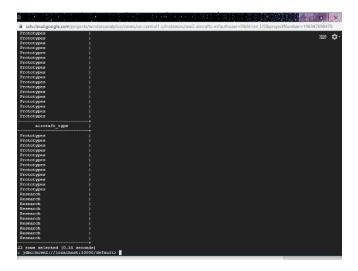
Query#4: Display the final years for each aircraft types

**Command:** select aircraft\_type, MAX(year\_in\_service) as final\_year from dataset group by aircraft\_type;



**Query#5:** Select an attribute with a given condition **Command:** SELECT aircraft\_type from dataset where country\_of\_origin = 'UK';





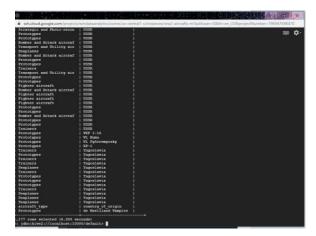
Query#6: Display the duration of service of each aircraft types

**Command:** SELECT aircraft\_type, (MAX(year\_in\_service) - MIN(year\_in\_service)) as Duration\_of\_Service FROM dataset group by aircraft\_type;



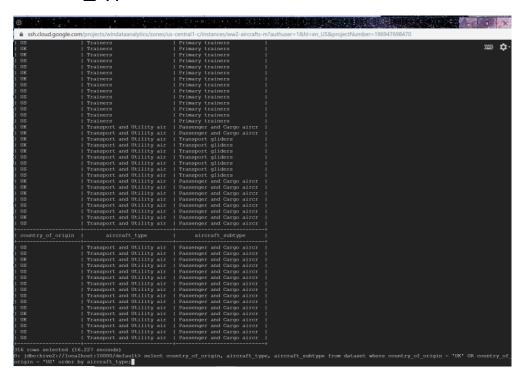
Query#6: Order aircrafts by country

**Command:** SELECT aircraft\_type, country\_of\_origin FROM dataset ORDER BY country\_of\_origin;



Query#7: Select aircrafts common to central powers

**Command:** select country\_of\_origin, aircraft\_type, aircraft\_subtype from dataset where country\_of\_origin = 'Germany' OR country\_of\_origin = 'Japan' order by aircraft\_type;



Query#8: Select aircrafts common to central powers

**Command:** select country\_of\_origin, aircraft\_type, aircraft\_subtype from dataset where country\_of\_origin = 'US' OR country\_of\_origin = 'UK' order by aircraft\_type;

