**Day-2 Assignment:-**

**Date :- 18th August,2022**

Dataset Link:

<https://drive.google.com/file/d/1f9NfFtBb4WWPrsMtMR5oid3NPl_5yTrf/view?usp=sharing>

or

Use <https://mode.com/> :

Tables:

* **tutorial.flights**

Q1) Write a query to get max distance travelled by any flight.

Ans) Select max(distance) From tutorial.flights

Q2) Write a query to get average departure\_delay where arrival\_delay < 0.

Ans) Select avg(departure\_delay) From tutorial.flights

Where arrival\_delay < 0

Q3) Write a query to get count of flights from JFK where distance is between 1900 and 2200.

Ans) Select count(flight\_number) From tutorial.flights

Where distance between 1900 and 2200 and origin\_airport in ('JFK')

Q4) Write a query to get mean airtime of flights whose distance is between 1900 and 2200 and origin\_airport in SNA,AUS,JFK

Ans) Select avg(air\_time) From tutorial.flights

Where distance between 1900 and 2200 and origin\_airport in ('SNA','AUS','JFK')

Q5) Write a query to display count of flights from each airport that was cancelled.

Ans) Select origin\_airport,count(flight\_number) From tutorial.flights

Where was\_cancelled = true

Group by origin\_airport

Q6) Write a query to display average distance travelled by each flight everyday.

Ans) Select flight\_number, day\_of\_week ,avg(distance) From tutorial.flights

Group by flight\_number, day\_of\_week

Q7) Write a query to display the total arrival delay each day.

Ans) Select day\_of\_week,sum(arrival\_delay) From tutorial.flights

Group by day\_of\_week

Q8) Write a query to display the days where average distance travelled is more than 5000.

Ans) Select day\_of\_week, avg(distance) From tutorial.flights

Group by day\_of\_week

Having avg(distance) > 5000

Q9) Write a query to display the arrival\_airport where average arrival\_delay > 5.

Ans) Select destination\_airport, avg(arrival\_delay) From tutorial.flights

Group by destination\_airport

Having avg(arrival\_delay) > 5

Q10) What is the difference between having and where clause ?

Ans)

WHERE Clause is used to filter the records from the table or used while joining more than one table.Only those records will be extracted who are satisfying the specified condition in WHERE clause

Q11) Write a query to display all flight\_number where total airtime on a Thursday > 200

Ans) Select flight\_number, sum(air\_time) From tutorial.flights

Where day\_of\_week in ('Thursday')

Group by flight\_number

Having sum(air\_time) > 200