SQL 202 ASSIGNMENT

**DataMart Creation on tutorial.flights on mode.com**​

**The output should contain all the attributes as different columns in the datamart created**​  
​

Create a DataMart at airline level with different features like​

1. Total Number of flights​
2. Total Number of delayed flights (Based on arrival delay)​
3. Percentage of delayed flights​
4. Total Number of cancelled flights (All reasons)​
5. Percentage of cancelled flights​
6. Give Rank number to each airline based on percentage of delayed flights​
7. Give Rank number to each airline based on number of destinations it covers​
8. Add additional features which can help understand airlines better based on their performance​

QUERY:

SELECT

airline\_code,

count(DISTINCT flight\_number) AS total\_flights,

count(

CASE

WHEN arrival\_delay > 0 THEN 1

END

) AS total\_delayed\_flights,

(

cast(

count(

CASE

WHEN arrival\_delay > 0 THEN 1

END

) AS float

) / cast(count(flight\_number) AS float)

) \* 100 AS percentage\_of\_delayed\_flights,

count(

CASE

WHEN was\_cancelled THEN 1

END

) AS total\_cancelled\_flights,

(

cast(

count(

CASE

WHEN was\_cancelled THEN 1

END

) AS float

) / cast(count(flight\_number) AS float)

) \* 100 AS percentage\_of\_cancelled\_flights,

rank() over(

ORDER BY

(

cast(

count(

CASE

WHEN arrival\_delay > 0 THEN 1

END

) AS float

) / cast(count(flight\_number) AS float)

) \* 100

) AS rank\_on\_delayed\_flights,

rank() over(

ORDER BY

(count(DISTINCT destination\_city)) DESC

) AS rank\_on\_destinations\_covered

FROM

tutorial.flights

GROUP BY

airline\_code;

Table

Description automatically generated with low confidence

