**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.**

**The output should contain all the attributes as different columns in the DataMart created.**

SELECT

airline\_code,

airline\_name,

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

SUM(CASE WHEN arrival\_delay > 0 THEN 1 ELSE 0 END) AS total\_delayed\_flights,

100.0 \* SUM(CASE WHEN arrival\_delay > 0 THEN 1 ELSE 0 END) / COUNT(\*) AS percentage\_delayed\_flights,

SUM(CASE WHEN was\_cancelled = true THEN 1 ELSE 0 END) AS total\_cancelled\_flights,

100.0 \* SUM(CASE WHEN was\_cancelled = true THEN 1 ELSE 0 END) / COUNT(\*) AS percentage\_cancelled\_flights,

RANK() OVER (ORDER BY (100.0 \* SUM(CASE WHEN arrival\_delay > 0 THEN 1 ELSE 0 END) / COUNT(\*))) AS delayed\_flight\_rank,

RANK() OVER (ORDER BY COUNT(DISTINCT(destination\_city))DESC) AS destination\_rank,

AVG(distance) AS average\_distance,

AVG(arrival\_delay) AS average\_delay\_minutes

FROM tutorial.flights

GROUP BY airline\_code, airline\_name;

