

create database

analytical_func_busiest_airport_airline

-- Finding top 5 busiest airport and top 5
busiest airlines

WITH

top_5_airports AS (

SELECT

ORIGIN,

COUNT(ORIGIN) AS count

FROM

`airline-delay-

canc.airlines_data.delay_canc_data`

GROUP BY

1

HAVING

count > 100000

ORDER BY

2 DESC

LIMIT

5),

top_5_airlines AS (

SELECT

OP_CARRIER,

COUNT(OP_CARRIER) AS count

FROM

`airline-delay-

canc.airlines_data.delay_canc_data` main,

top_5_airports top5

WHERE

top5.ORIGIN = main.ORIGIN

GROUP BY

1

ORDER BY

2 DESC

LIMIT

5),

airportwise_carrier_cnt AS (

SELECT

main.ORIGIN AS Airport,

main.OP_CARRIER AS Carrier,

COUNT(*) AS count

FROM

`airline-delay-

canc.airlines_data.delay_canc_data` main,

top_5_airports top5_ap,

top_5_airlines top_al

```

WHERE
    top5_ap.ORIGIN = main.ORIGIN
    AND top_al.OP_CARRIER = main.OP_CARRIER
GROUP BY
    1,
    2 ),
resut_cte AS (
SELECT
    Airport,
    Carrier,
    count,
    RANK() OVER(PARTITION BY Airport ORDER BY
count) AS rank
FROM
    airportwise_carrier_cnt)
SELECT
    Airport,
    Carrier,
    count
FROM
    resut_cte
WHERE
    rank < 6

```