SQL Queries

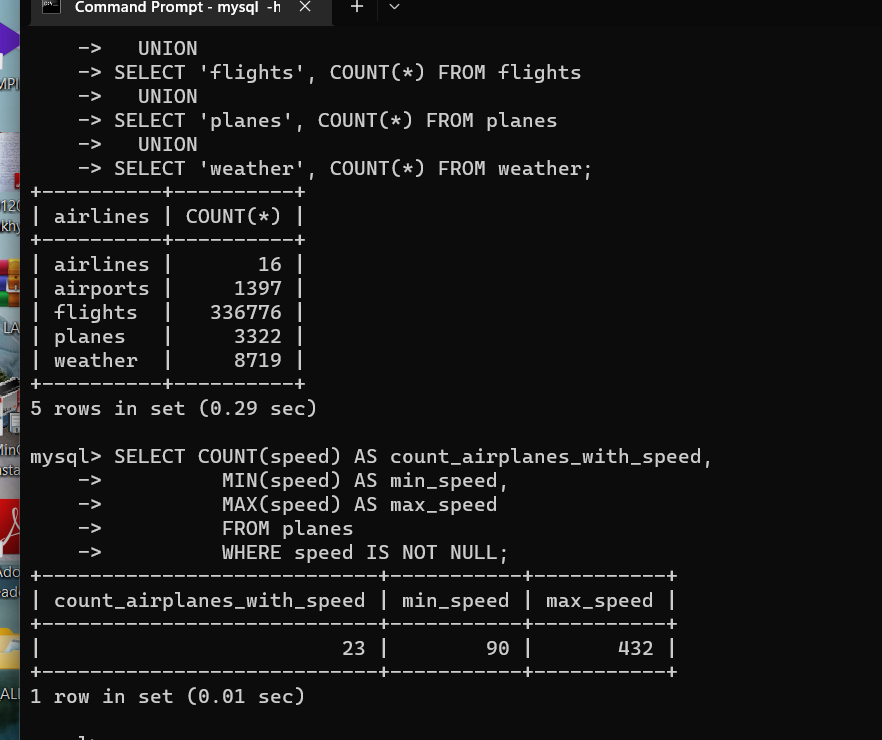
1)- SELECT COUNT(speed) AS count\_airplanes\_with\_speed,

MIN(speed) AS min\_speed,

MAX(speed) AS max\_speed

FROM planes

WHERE speed IS NOT NULL;

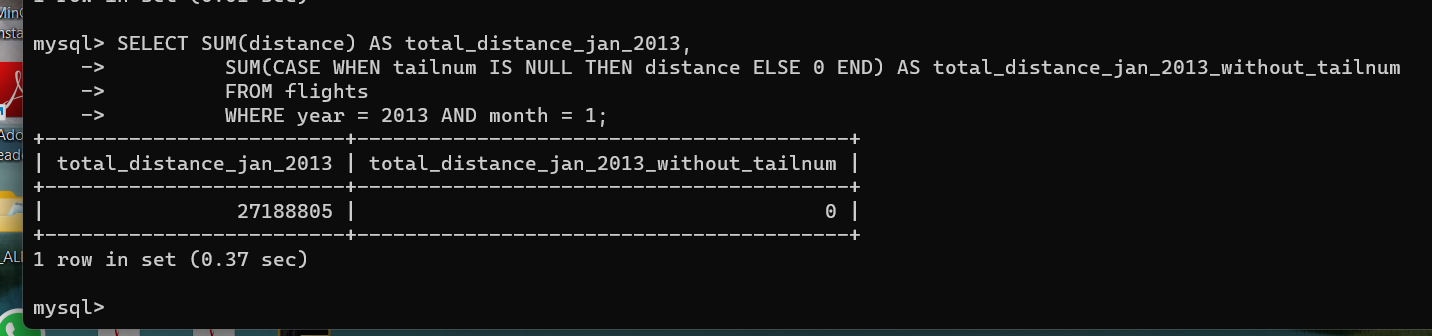


2)- SELECT SUM(distance) AS total\_distance\_jan\_2013,

SUM(CASE WHEN tailnum IS NULL THEN distance ELSE 0 END) AS total\_distance\_jan\_2013\_without\_tailnum

FROM flights

WHERE year = 2013 AND month = 1;



3) – (i)

-- INNER JOIN

SELECT manufacturer, SUM(distance) AS total\_distance

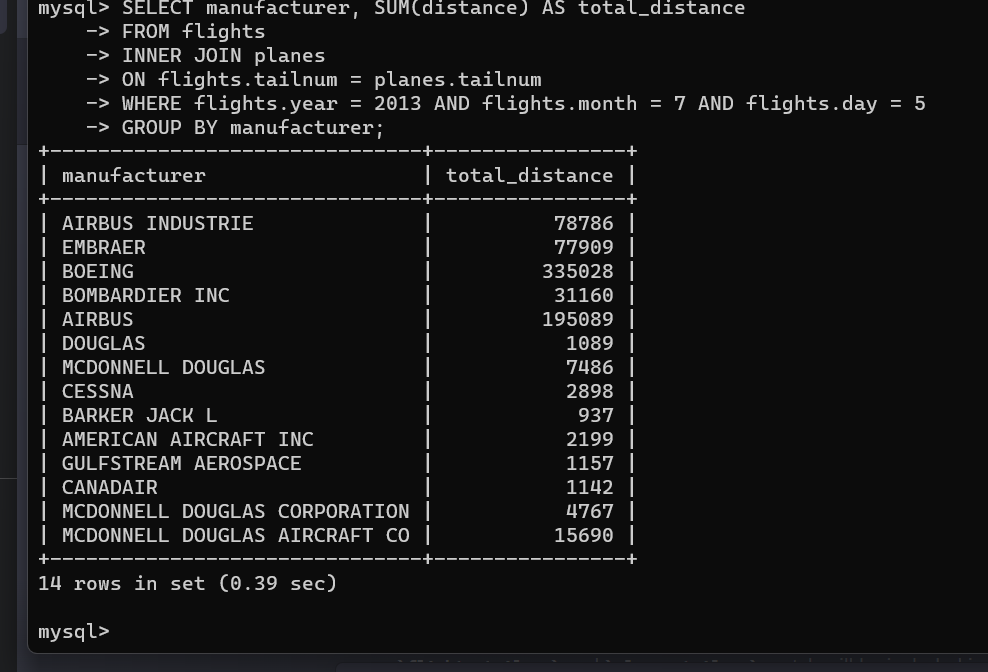
FROM flights

JOIN planes

ON flights.tailnum = planes.tailnum

WHERE year = 2013 AND month = 7 AND day = 5

GROUP BY manufacturer;



(ii)-

-- LEFT OUTER JOIN

SELECT manufacturer, SUM(distance) AS total\_distance

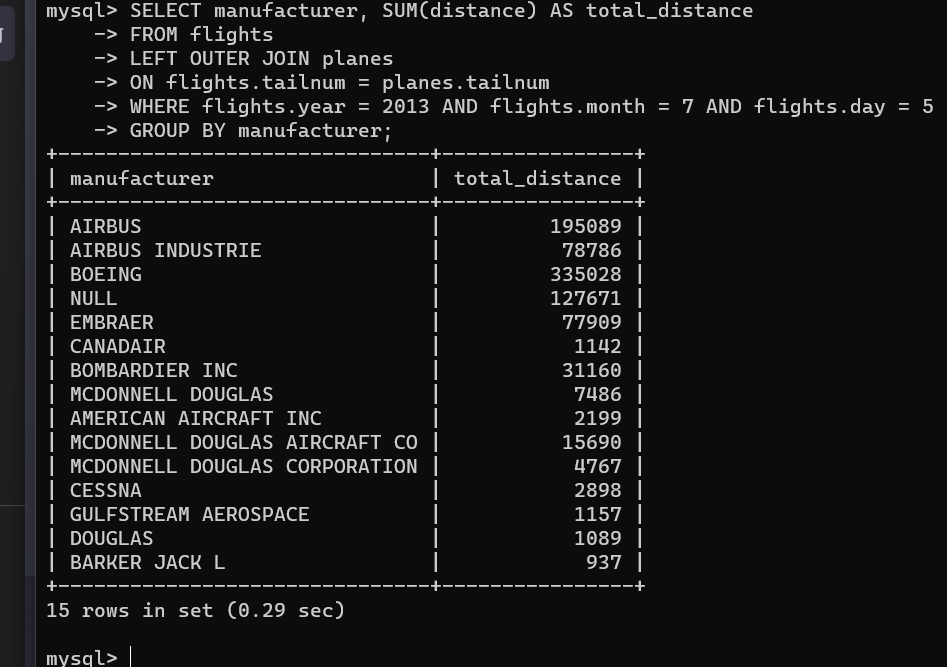
FROM flights

LEFT JOIN planes

ON flights.tailnum = planes.tailnum

WHERE year = 2013 AND month = 7 AND day = 5

GROUP BY manufacturer;



4)-

SELECT manufacturer, SUM(flights.distance) AS total\_distance

FROM flights

JOIN planes ON flights.tailnum = planes.tailnum

WHERE flights.year = 2013

GROUP BY manufacturer;

