

Tarea del tema VII

1. γ city; count(airport) \rightarrow airport (aeropuertos) σ count(airport) > 1

```
registro_vuelos=# SELECT city, COUNT(airport), (SELECT NOW()), (SELECT
CURRENT_USER) FROM aeropuertos GROUP BY city HAVING COUNT(airport) > 1;
```

city	count	now	current_user
Jackson	2	2022-12-12 22:40:14.184671-06	postgres
Springfield	2	2022-12-12 22:40:14.184671-06	postgres
Albany	2	2022-12-12 22:40:14.184671-06	postgres
Columbia	2	2022-12-12 22:40:14.184671-06	postgres
New York	2	2022-12-12 22:40:14.184671-06	postgres
Jacksonville	2	2022-12-12 22:40:14.184671-06	postgres
Wilmington	2	2022-12-12 22:40:14.184671-06	postgres
San Diego	2	2022-12-12 22:40:14.184671-06	postgres
Chicago	2	2022-12-12 22:40:14.184671-06	postgres
Houston	2	2022-12-12 22:40:14.184671-06	postgres
Charleston	2	2022-12-12 22:40:14.184671-06	postgres
Portland	2	2022-12-12 22:40:14.184671-06	postgres
Columbus	2	2022-12-12 22:40:14.184671-06	postgres
Rochester	2	2022-12-12 22:40:14.184671-06	postgres

(14 rows)

Time: 204.236 ms

2. σ airline not like '%Inc.' \wedge airline not like '%Co.' (aerolineas)

```
registro_vuelos=# \timing
Timing is on.
registro_vuelos=# SELECT airline, (SELECT NOW()), (SELECT CURRENT_USER) FROM aerol
ineas WHERE airline NOT LIKE '%Inc.' AND airline NOT LIKE '%Co.';
```

airline	now	current_user
JetBlue Airways	2022-12-12 22:51:41.424277-06	postgres
Spirit Air Lines	2022-12-12 22:51:41.424277-06	postgres
Atlantic Southeast Airlines	2022-12-12 22:51:41.424277-06	postgres
Virgin America	2022-12-12 22:51:41.424277-06	postgres

(4 rows)

Time: 15.265 ms

3.

```
registro_vuelos=# SELECT AE.airport , (SELECT NOW()), (SELECT CURRENT_USER) FROM
aeropuertos AE JOIN vuelos VU ON VU.origin_airport = AE.iata_code OR VU.destinat
ion_airport = AE.iata_code WHERE VU.late_aircraft_delay = (SELECT MAX(late_aircr
aft_delay) FROM vuelos);
Time: 5791.512 ms (00:05.792)
registro_vuelos=#
```


airport	now	current_user
Dallas/Fort Worth International Airport	2022-12-12 22:56:08.535731-06	postgres
Honolulu International Airport	2022-12-12 22:56:08.535731-06	postgres

(2 rows)

4.

```

datos_clase=# SELECT categoria, MIN(precio), (SELECT NOW()), (SELECT CURRENT_USER
) FROM articulo GROUP BY categoria HAVING MIN(precio) = (SELECT MIN(precio) FROM
 articulo);
categoria | min | now | current_user
-----+-----+-----+-----
accesorios | 120 | 2022-12-12 23:08:49.967639-06 | postgres
(1 row)

Time: 1.351 ms
datos_clase=#

```

5.

```

registro_vuelos=# SELECT airline, SUBSTR(iata_code,2) terminacion, (SELECT NOW()), (SELECT CUR
RENT_USER) FROM aerolineas WHERE iata_code LIKE 'X' OR iata_code LIKE '_9';
Time: 37.914 ms
registro_vuelos=#

```

airline	terminacion	now	current_user
Frontier Airlines Inc.	9	2022-12-12 23:11:00.75257-06	postgres
Virgin America	X	2022-12-12 23:11:00.75257-06	postgres

(2 rows)

6.

```

registro_vuelos=# SELECT airport, (SELECT NOW()), (SELECT CURRENT_USER) FROM aeropuertos WHERE
(latitude BETWEEN 40 AND 41) AND longitude < (SELECT AVG(longitude) FROM aeropuertos WHERE la
titude BETWEEN 40 AND 41);
airport | now | current_user
-----+-----+-----
Arcata Airport | 2022-12-12 23:14:14.384461-06 | postgres
Elko Regional Airport | 2022-12-12 23:14:14.384461-06 | postgres
Central Nebraska Regional Airport | 2022-12-12 23:14:14.384461-06 | postgres
Yampa Valley Airport (Yampa Valley Regional) | 2022-12-12 23:14:14.384461-06 | postgres
Lincoln Airport (Lincoln Municipal) | 2022-12-12 23:14:14.384461-06 | postgres
Redding Municipal Airport | 2022-12-12 23:14:14.384461-06 | postgres
Salt Lake City International Airport | 2022-12-12 23:14:14.384461-06 | postgres
Valdez Airport | 2022-12-12 23:14:14.384461-06 | postgres
(8 rows)

Time: 69.206 ms
registro_vuelos=#

```


7.

```
registro_vuelos=# SELECT VU.airline, VU.day, COUNT(flight_number), (SELECT NOW()),(SELECT CURRENT_USER) FROM vuelos VU JOIN aeropuertos AE ON VU.origin_airport = AE.iata_code WHERE AE.City = 'Honolulu' AND VU.Cancelled IS NOT NULL GROUP BY airline, day;
Time: 3230.434 ms (00:03.230)
```

airline	day	count	now		current_user
AA	1	80	2022-12-12	23:15:32.021933-06	postgres
AA	2	78	2022-12-12	23:15:32.021933-06	postgres
AA	3	78	2022-12-12	23:15:32.021933-06	postgres
AA	4	81	2022-12-12	23:15:32.021933-06	postgres
AA	5	79	2022-12-12	23:15:32.021933-06	postgres
AA	6	77	2022-12-12	23:15:32.021933-06	postgres
AA	7	78	2022-12-12	23:15:32.021933-06	postgres
AA	8	78	2022-12-12	23:15:32.021933-06	postgres
AA	9	75	2022-12-12	23:15:32.021933-06	postgres
AA	10	76	2022-12-12	23:15:32.021933-06	postgres
AA	11	78	2022-12-12	23:15:32.021933-06	postgres
AA	12	77	2022-12-12	23:15:32.021933-06	postgres
AA	13	79	2022-12-12	23:15:32.021933-06	postgres
AA	14	78	2022-12-12	23:15:32.021933-06	postgres
AA	15	77	2022-12-12	23:15:32.021933-06	postgres
AA	16	77	2022-12-12	23:15:32.021933-06	postgres
AA	17	80	2022-12-12	23:15:32.021933-06	postgres
AA	18	79	2022-12-12	23:15:32.021933-06	postgres
AA	19	80	2022-12-12	23:15:32.021933-06	postgres
AA	20	82	2022-12-12	23:15:32.021933-06	postgres
AA	21	84	2022-12-12	23:15:32.021933-06	postgres
AA	22	82	2022-12-12	23:15:32.021933-06	postgres
AA	23	81	2022-12-12	23:15:32.021933-06	postgres
AA	24	78	2022-12-12	23:15:32.021933-06	postgres
AA	25	79	2022-12-12	23:15:32.021933-06	postgres
AA	26	80	2022-12-12	23:15:32.021933-06	postgres
AA	27	83	2022-12-12	23:15:32.021933-06	postgres
AA	28	84	2022-12-12	23:15:32.021933-06	postgres
AA	29	76	2022-12-12	23:15:32.021933-06	postgres
AA	30	75	2022-12-12	23:15:32.021933-06	postgres
AA	31	45	2022-12-12	23:15:32.021933-06	postgres
AS	1	76	2022-12-12	23:15:32.021933-06	postgres
AS	2	77	2022-12-12	23:15:32.021933-06	postgres

9.

```
Time: 0.752 ms  
registro_vuelos=# SELECT day, COUNT(flight_number), (SELECT NOW()),(SELECT CURRENT_USER) FROM  
vuelos WHERE Cancelled IS NOT NULL GROUP BY day;  
Time: 3810.382 ms (00:03.810)
```

day	count	now		current_user
1	189477	2022-12-12	23:24:49.564686-06	postgres
2	195986	2022-12-12	23:24:49.564686-06	postgres
3	190007	2022-12-12	23:24:49.564686-06	postgres
4	190893	2022-12-12	23:24:49.564686-06	postgres
5	189766	2022-12-12	23:24:49.564686-06	postgres
6	191232	2022-12-12	23:24:49.564686-06	postgres
7	187598	2022-12-12	23:24:49.564686-06	postgres
8	193964	2022-12-12	23:24:49.564686-06	postgres
9	194224	2022-12-12	23:24:49.564686-06	postgres
10	189288	2022-12-12	23:24:49.564686-06	postgres
11	190756	2022-12-12	23:24:49.564686-06	postgres
12	190872	2022-12-12	23:24:49.564686-06	postgres
13	195089	2022-12-12	23:24:49.564686-06	postgres
14	188611	2022-12-12	23:24:49.564686-06	postgres
15	192950	2022-12-12	23:24:49.564686-06	postgres
16	195899	2022-12-12	23:24:49.564686-06	postgres
17	191319	2022-12-12	23:24:49.564686-06	postgres
18	191393	2022-12-12	23:24:49.564686-06	postgres
19	193284	2022-12-12	23:24:49.564686-06	postgres
20	195707	2022-12-12	23:24:49.564686-06	postgres
21	189413	2022-12-12	23:24:49.564686-06	postgres
22	192725	2022-12-12	23:24:49.564686-06	postgres
23	193560	2022-12-12	23:24:49.564686-06	postgres
24	185017	2022-12-12	23:24:49.564686-06	postgres
25	187317	2022-12-12	23:24:49.564686-06	postgres
26	187387	2022-12-12	23:24:49.564686-06	postgres
27	191920	2022-12-12	23:24:49.564686-06	postgres
28	191401	2022-12-12	23:24:49.564686-06	postgres
29	179441	2022-12-12	23:24:49.564686-06	postgres
30	178771	2022-12-12	23:24:49.564686-06	postgres
31	103812	2022-12-12	23:24:49.564686-06	postgres

(31 rows)

10.

```
registro_vuelos=# SELECT airport, (SELECT NOW()), (SELECT CURRENT_USER) FROM aeropuertos WHERE
SUBSTRING(iata_code,2,1) IN ('K','X');
      airport      | now                               | current_user
-----+-----+-----
King Salmon Airport | 2022-12-12 23:27:22.858767-06 | postgres
Elko Regional Airport | 2022-12-12 23:27:22.858767-06 | postgres
General Mitchell International Airport | 2022-12-12 23:27:22.858767-06 | postgres
Muskegon County Airport | 2022-12-12 23:27:22.858767-06 | postgres
Will Rogers World Airport | 2022-12-12 23:27:22.858767-06 | postgres
Rock Springs-Sweetwater County Airport | 2022-12-12 23:27:22.858767-06 | postgres
Texarkana Regional Airport (Webb Field) | 2022-12-12 23:27:22.858767-06 | postgres
(7 rows)

Time: 27.832 ms
```

11.

```
registro_vuelos=# SELECT DISTINCT AE.airline, (SELECT NOW()), (SELECT CURRENT_USER) FROM vuelo
s VU JOIN aerolineas AE ON VU.airline = AE.iata_code WHERE distance = (SELECT MAX(distance) FR
OM vuelos);
      airline      | now                               | current_user
-----+-----+-----
Delta Air Lines Inc. | 2022-12-12 23:28:34.873462-06 | postgres
Hawaiian Airlines Inc. | 2022-12-12 23:28:34.873462-06 | postgres
(2 rows)

Time: 4617.965 ms (00:04.618)
registro_vuelos=#
```

12.

```
registro_vuelos=# SELECT DISTINCT AE.airport, (SELECT NOW()), (SELECT CURRENT_USER) FROM aeropuertos AE JOIN vuelos VU ON VU.origin_air
port = AE.iata_code WHERE VU.air_time = (SELECT MAX(air_time) FROM vuelos);
Time: 4536.344 ms (00:04.536)
registro_vuelos=#
registro_vuelos=#
```

Actividades Aplicaciones terminal lunes, diciembre 12 11:35 p. m.

```
mario@mario: ~
      airport      | now                               | current_user
-----+-----+-----
John F. Kennedy International Airport (New York International Airport) | 2022-12-12 23:34:39.235178-06 | postgres
(1 row)
```