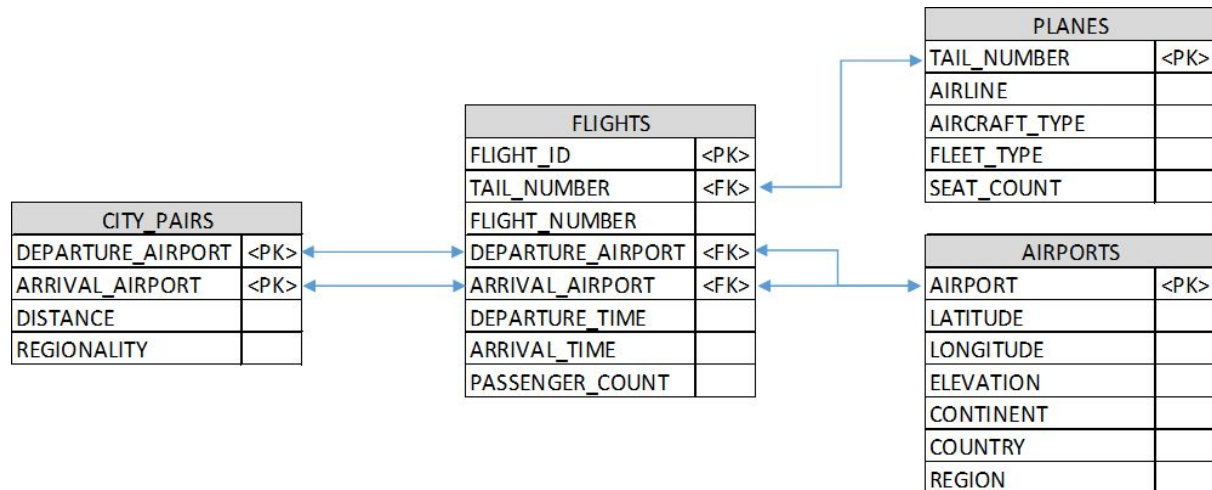


SQL quiz Coursera

[Introduction to Data Analytics for Business](#)

In this quiz, you'll be writing queries based on the following database



1. How many aircrafts are there in the PLANES table?

```
SELECT count(tail_number) as all_aircrafts from planes;
```

```

+-----+
| all_aircrafts |
+-----+
|           25 |
+-----+
  
```

2. Write a query that provides a list of all planes that have a seat count of 100 or more, ordered from lowest to highest number of seats.

```
SELECT * from planes where seat_count >= 100 order by seat_count desc;
```

3. Write a query that provides the number of flights flown by each aircraft.

```

SELECT tail_number, count(flight_id) as sum_flights
from flights
group by tail_number
order by sum_flights desc;
  
```

4. Write a query that provides a list of planes that flew more than 600 passengers across all flights.

How many planes are in that list?

```

SELECT f.tail_number, count(f.flight_id) as sum_flights, p.seat_count
from flights f
join planes as p
on f.tail_number = p.tail_number
group by f.tail_number
having (sum_flights * p.seat_count) >600
order by sum_flights desc;
  
```

TAIL_NUMBER	sum_flights	SEAT_COUNT
N111AA	5	150
N116AA	4	168
N125EE	4	187

5. Write a query that provides the total number of flights by country.

```
SELECT f.tail_number, f.FLIGHT_NUMBER, f.departure_airport,
a.COUNTRY, count(a.COUNTRY) as flights_by_country
from flights f
join airports a
on f.departure_airport = a.airport
group by a.COUNTRY
order by flights_by_country desc;
```

6. Write a query that provides the total number of flights by regionality.

```
SELECT f.tail_number, f.FLIGHT_NUMBER, f.departure_airport, f.arrival_airport,
sp.REGIONality, count(sp.REGIONality) as flights_by_regionality
from flights f
join city_pairs sp
on f.departure_airport = sp.departure_airport
group by sp.REGIONality
order by flights_by_regionality desc;
```

7. How many CITY_PAIRS are there which depart from one of the following airports?
KLAX, KDEN, KORD, KDET, KLGA

```
SELECT count(*) as sum_depart_from
from CITY_PAIRS
where departure_airport in ('KLAX', 'KDEN', 'KORD', 'KDET', 'KLGA')
```

```
+-----+
| sum_depart_from |
+-----+
|                722 |
+-----+
```

8. How many airports are missing elevation values?

```
SELECT count(*) as missing_elevation_values
from airports
where elevation is Null
```

```
+-----+
| missing_elevation_values |
+-----+
|                        6 |
+-----+
```

9. What flight number had the lowest passenger count (try using a subquery if you can!)?

```
SELECT flight_number, TAIL_NUMBER, sum(PASSENGER_COUNT)
from flights
where TAIL_NUMBER in
(SELECT TAIL_NUMBER from Planes order by SEAT_COUNT limit 3)
group by TAIL_NUMBER
order by sum(PASSENGER_COUNT)
```

```
+-----+-----+-----+
| FLIGHT_NUMBER | TAIL_NUMBER | sum(PASSENGER_COUNT) |
+-----+-----+-----+
| ALN626       | N133BB      | 55 |
| SKY163       | N126AA      | 73 |
| SKY968       | N129CC      | 126 |
+-----+-----+-----+
```

```
SELECT flight_number, TAIL_NUMBER, PASSENGER_COUNT
from flights
order by PASSENGER_COUNT
limit 3
```

10. What is the average distance flown by SKY Airline flights (nearest mile)?

```
SELECT AVG(DISTANCE)
FROM flights f
join city_pairs sp
on f.DEPARTURE_AIRPORT = sp.DEPARTURE_AIRPORT AND
f.ARRIVAL_AIRPORT = sp.ARRIVAL_AIRPORT
where TAIL_NUMBER in
(SELECT TAIL_NUMBER from planes where AIRLINE = 'SKY')
```

```
+-----+
|  AVG(DISTANCE)  |
+-----+
|  1767.96389687  |
+-----+
```