Please answer the following questions using Airline DB database.

**How to attempt questions:**

* Students need to write queries for the questions mentioned in the using Airline DB database
* Read the questions carefully before writing the query in **Airline Playground** (in the Playground chapter of SQL)
* Airline DB: https://www.skillovilla.com/playground/sql?exerciseId=0181e251-6ea8-4595-ae2b-0c690119f8db

**How to submit the Assignment:**

* Copy the SQL query code and paste it in the answer section in this file
* Once the assignment is done, submit the file over LMS

**Invalid Submissions:**

* Pasting pictures of the code as answer is **NOT** acceptable
* Uploading output data (CSVs) of the SQL queries is **NOT** acceptable

**Write your answers(query) in the answer and submit it. To write the answer in the assignment, please follow the below example in yellow**

Example

Questions: Extract all the columns of the flights table

Answer: SELECT \* FROM flights

1. ***Questions:******Find list of airport codes in Europe/Moscow timezone***

***Expected Output: Airport\_code***

**Answer:**

***Select airport\_code***

***from airports***

***where timezone = 'Europe/Moscow'***

1. ***Write a query to get the count of seats in various fare condition for every aircraft code?***

***Expected Outputs: Aircraft\_code, fare\_conditions ,seat count***

**Answer:**

***Select distinct(aircraft\_code),***

***fare\_conditions,***

***count(seat\_no)***

***from seats***

***group by 1,2***

***order by 3***

1. ***How many aircrafts codes have at least one Business class seats?***

***Expected Output : Count of aircraft codes***

**Answer:**

***select count(distinct aircraft\_code)***

***from seats***

***where fare\_conditions = 'Business'***

1. ***Find out the name of the airport having maximum number of departure flight***

***Expected Output : Airport\_name***

**Answer:**

***select count (scheduled\_departure) departure,***

***departure\_airport***

***from flights***

***group by departure\_airport***

***order by departure desc***

***limit 1***

1. ***Find out the name of the airport having least number of scheduled departure flights***

***Expected Output : Airport\_name***

**Answer:**

***select count (scheduled\_departure) departure,***

***departure\_airport***

***from flights***

***group by departure\_airport***

***order by departure asc***

***limit 1***

1. ***How many flights from ‘DME’ airport don’t have actual departure?***

***Expected Output : Flight Count***

**Answer:**

***select count (distinct flight\_no)***

***from flights***

***where departure\_airport = 'DME'and actual\_departure is null***

1. ***Identify flight ids having range between 3000 to 6000***

***Expected Output : Flight\_Number , aircraft\_code, ranges***

**Answer:**

***select distinct f.Flight\_No, a.aircraft\_code, a.range***

***from aircrafts a***

***left join flights f on f.aircraft\_code= a.aircraft\_code***

***where a.range between 3000 and 6000***

1. ***Write a query to get the count of flights flying between URS and KUF?***

***Expected Output : Flight\_count***

**Answer:**

***select count (flight\_no) as flight\_count***

***from flights***

***group by departure\_airport,arrival\_airport***

***having arrival\_airport in ('URS','KUF') AND departure\_airport in ('URS','KUF')***

1. ***Write a query to get the count of flights flying from either from NOZ or KRR?***

***Expected Output : Flight count***

**Answer:**

***select Count (distinct flight\_no) as Flight\_count***

***from flights***

***WHERE departure\_airport = 'NOZ' OR departure\_airport = 'KRR'***

1. ***Write a query to get the count of flights flying from KZN,DME,NBC,NJC,GDX,SGC,VKO,ROV***

***Expected Output : Departure airport ,count of flights flying from these airports.***

**Answer:**

***select Distinct Departure\_airport,***

***count (flight\_no)***

***from flights***

***where Departure\_airport in ('KZN','DME','NBC','NJC','GDX','SGC','VKO','ROV')***

***group by 1***

1. ***Write a query to extract flight details having range between 3000 and 6000 and flying from DME***

***Expected Output :Flight\_no,aircraft\_code,range,departure\_airport***

**Answer:**

***select distinct f.Flight\_no,f.aircraft\_code,a.range,f.departure\_airport***

***from flights f***

***left join aircrafts a***

***on f.aircraft\_code = a.aircraft\_code***

***where a.range between 3000 and 6000***

1. ***Find the list of flight ids which are using aircrafts from “Airbus” company and got cancelled or delayed***

***Expected Output : Flight\_id,aircraft\_model***

**Answer:**

***select flight\_id,model from (***

***select flight\_id , model ,status***

***from bookings.flights f inner join bookings.aircrafts\_data a***

***on f.aircraft\_code = a.aircraft\_code***

***where model::json->> 'en' like '%Airbus%' and***

***status in ('Cancelled','Delayed') ) as model***

1. ***Find the list of flight ids which are using aircrafts from “Boeing” company and got cancelled or delayed***

***Expected Output : Flight\_id,aircraft\_model***

**Answer:**

***select flight\_id,model from (***

***select flight\_id, model,f.status***

***from bookings.flights f inner join bookings.aircrafts\_data a***

***on f.aircraft\_code = a.aircraft\_code***

***WHERE model::json->> 'en' like '%Boeing%'and (f.status = 'Cancelled' or f.status = 'Delayed')***

***order by model ) as model***

1. ***Which airport(name) has most cancelled flights (arriving)?***

***Expected Output : Airport\_name***

**Answer:**

***select airport\_name, count(flight\_no)***

***from flights join airports***

***on flights.departure\_airport = airports.airport\_code***

***where status = 'Cancelled'***

***group by airport\_name***

***order by count(flight\_no) desc limit 1***

1. ***Identify flight ids which are using “Airbus aircrafts”***

***Expected Output : Flight\_id,aircraft\_model***

**Answer:**

***SELECT***

***f.flight\_id,a.model***

***from aircrafts a***

***left join flights f***

***on f.aircraft\_code = a.aircraft\_code***

1. ***Identify date-wise last flight id flying from every airport?***

***Expected Output: Flight\_id,flight\_number,schedule\_departure,departure\_airport***

**Answer:**

***Select distinct departure\_airport,Flight\_id,flight\_no,***

***max ( scheduled\_departure) as last\_flight***

***from flights***

***group by Flight\_id***

***order by 4 desc***

1. ***Identify list of customers who will get the refund due to cancellation of the flights and how much amount they will get?***

***Expected Output : Passenger\_name,total\_refund***

**Answer:**

***Select t.Passenger\_name,f.amount***

***from tickets t***

***left join ticket\_flights f***

***on t.ticket\_no = f.ticket\_no***

***where amount= null***

1. ***Identify date wise first cancelled flight id flying for every airport?***

***Expected Output : Flight\_id,flight\_number,schedule\_departure,departure\_airport***

**Answer:**

***SELECT***

***distinct departure\_airport,Flight\_id,flight\_no,status,***

***min (scheduled\_departure) cancelled\_flight***

***from flights***

***group by Flight\_id***

***having status = 'Cancelled'***

***order by 4 desc***

1. ***Identify list of Airbus flight ids which got cancelled.***

***Expected Output : Flight\_id***

**Answer:**

***select flight\_id, flight\_no, scheduled\_departure, scheduled\_arrival,departure\_airport***

***from***

***(select \*,Rank()over(partition by departure\_airport order by scheduled\_departure)***

***from flights ) as dept\_time***

**20.*Identify list of flight ids having highest range.***

***Expected Output : Flight\_no, range***

**Answer:**

***Select f.Flight\_id,***

***max (range) max\_range***

***from aircrafts a***

***left join flights f***

***on f.aircraft\_code = a.aircraft\_code***

***group by f.Flight\_id***

***order by 1***