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 select aircraft\_code, fare\_conditions ,count(seat\_no) as seat\_count**

**from seats group by 1,2**

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

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

**Answer: select count(aircraft\_code) as count\_of\_airport\_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 departure\_airport as Airport\_name**

**from flights group by 1**

**having count(actual\_departure)>1**

**order by count(actual\_departure) desc**

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

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

**Answer: select departure\_airport as Airport\_name**

**from flights group by 1**

**having count(actual\_departure)>1**

**order by count(actual\_departure) asc**

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

***Expected Output : Flight Count***

**Answer: select count(flight\_id) 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 f.flight\_no , f.aircraft\_code, a.range from flights f inner join aircrafts a**

**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\_id) as flight\_count from flights where departure\_airport='URS' AND arrival\_airport='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(flight\_id) 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 departure\_airport,COUNT(flight\_id) as count\_of\_flight**

**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 f.flight\_no , f.aircraft\_code, a.range, f.departure\_airport from flights f**

**inner join aircrafts a**

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

**where a.range between 3000 and 6000 and f.departure\_airport='DME';**

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 f.Flight\_id from flights f inner join aircrafts a**

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

**where**

**model like '%Airbus%' and**

**status ='Cancelled' OR status ='Delayed'**

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 f.Flight\_id from flights f inner join aircrafts a**

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

**where**

**a.model like '%Boeing%' and**

**status ='Cancelled' OR status ='Delayed'**

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

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

**Answer: select a.airport\_name**

**from airports a inner join Flights f**

**on f.arrival\_airport=a.airport\_code**

**where status='Cancelled'**

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

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

**Answer: select f.Flight\_id, a.model from flights f inner join aircrafts a**

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

**where model like '%Airbus%' ;**

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

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

**Answer: with table1 as**

**(select Flight\_id, flight\_no, scheduled\_departure, departure\_airport, cast(scheduled\_departure as date) as date\_wise, cast(scheduled\_departure as time) as scheduled\_time from flights),**

**table2 as**

**(select Flight\_id, flight\_no, scheduled\_departure, departure\_airport,**

**rank()over(partition by date\_wise order by scheduled\_time desc) as highest\_rank**

**from table1)**

**select \* from table2 where highest\_rank=1;**

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, tf.amount as total\_refund**

**from**

**((Ticket\_Flights tf**

**inner join Flights f on f.flight\_id=tf.flight\_id)**

**inner join Tickets t on t.ticket\_no=tf.ticket\_no)**

**where status ='Cancelled';**

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

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

**Answer: with table1 as (select Flight\_id, flight\_no, scheduled\_departure, departure\_airport, cast(scheduled\_departure as date) as date\_wise,**

**cast(scheduled\_departure as time) as scheduled\_time**

**from flights where status ='Cancelled'),**

**table2 as**

**(select \*, rank()over(partition by date\_wise order by scheduled\_time asc) as highest\_rank from table1)**

**select \* from table2 where highest\_rank=1 ;**

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

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

**Answer: select f.Flight\_id from flights f inner join aircrafts a**

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

**where model like '%Airbus%' and status='Cancelled';**

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

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

**Answer: select f.flight\_id, a.range**

**from flights f**

**inner join aircrafts a**

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

**WHERE(a.range=(select max(range) from aircrafts));**