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

**Questions:**

1. ***Represent the “book\_date” column in “yyyy-mmm-dd” format using Bookings table***

***Expected output: book\_ref, book\_date (in “yyyy-mmm-dd” format) , total amount***

**Answer: select book\_ref, to\_char(book\_date, 'yyyy-mon-dd') as Book\_date,**

**total\_amount**

**from bookings**

1. **Get the following columns in the exact same sequence.**

**Expected columns in the output: ticket\_no, boarding\_no, seat\_number, passenger\_id, passenger\_name.**

**Answer: select t.ticket\_no, bp.boarding\_no, bp.seat\_no,**

**t.passenger\_id,t.passenger\_name**

**from tickets t**

**Full outer join boarding\_passes bp**

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

1. **Write a query to find the seat number which is least allocated among all the seats?**

**Answer: select seat\_no, count(ticket\_no)**

**from boarding\_passes**

**group by seat\_no**

**order by 2 asc**

**limit 3**

1. ***In the database, identify the month wise highest paying passenger name and passenger id***

***Expected output: Month\_name(“mmm-yy” format), passenger\_id, passenger\_name and total amount***

**Answer: with my\_table as(**

**select to\_char(b.book\_date,'mon yy') month\_name,t.passenger\_id, t.passenger\_name, b.total\_amount,**

**DENSE\_RANK () over(partition by to\_char(b.book\_date, 'mon yy') order by b.total\_amount desc) as RNK**

**from bookings b**

**inner join tickets t**

**on b.book\_ref = t.book\_ref**

**)**

**select \* from my\_table**

**where RNK =1**

1. ***In the database, identify the month wise least paying passenger name and passenger id?***

***Expected output: Month\_name(“mmm-yy” format), passenger\_id, passenger\_name and total amount***

**Answer: with my\_table as(**

**select to\_char(b.book\_date,'mon yy') month\_name,t.passenger\_id, t.passenger\_name, b.total\_amount,**

**DENSE\_RANK () over(partition by to\_char(b.book\_date, 'mon yy') order by b.total\_amount asc) as RNK**

**from bookings b**

**inner join tickets t**

**on b.book\_ref = t.book\_ref**

**)**

**select \* from my\_table**

**where RNK =1**

1. **Identify the travel details of non stop journeys or return journeys (having more than 1 flight).**

**Expected Output: Passenger\_id, passenger\_name, ticket\_number and flight count**

**Answer select t.passenger\_id,t.passenger\_name, t.ticket\_no,**

**count(f.flight\_no) as Count\_of\_flights**

**from tickets t**

**inner join boarding\_passes bp**

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

**inner join flights f**

**on bp.flight\_id= f.flight\_id**

**group by t.passenger\_id,t.passenger\_name, t.ticket\_no**

**having count(f.flight\_no) >1**

1. **How many tickets are there without boarding passes?**

**Expected Output: just one number is required**

**Answer: select**

**count(\*)**

**from boarding\_passes b full join tickets t**

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

**where b.boarding\_no is Null**

1. **Identify details of the longest flight (using flights table)?**

**Expected Output: Flight number, departure airport, arrival airport, aircraft code and durations**

**Answer: select**

**flight\_no, departure\_airport, arrival\_airport,**

**aircraft\_code,**

**(scheduled\_arrival - scheduled\_departure) as Durations**

**from flights**

**order by 4 desc**

**limit 1**

1. **Identify details of all the morning flights (morning means between 6AM to 11 AM, using flights table)?**

**Expected output: flight\_id, flight\_number, scheduled\_departure, scheduled\_arrival and timings**

**Answer: select**

**flight\_id, flight\_no, scheduled\_departure, scheduled\_arrival,**

**to\_char(scheduled\_departure, 'HH24:MI:SS') as mrng\_Timings**

**from flights**

**WHERE to\_char(scheduled\_departure, 'HH24:MI:SS')**

**BETWEEN '06:00:00'**

**AND '11:00:00';**

1. ***Identify the earliest morning flight available from every airport.***

**Expected output:** **flight\_id, flight\_number, scheduled\_departure, scheduled\_arrival, departure airport and timings**

**Answer: select flight\_id, flight\_no, scheduled\_departure,**

**scheduled\_arrival, departure\_airport,**

**to\_char(scheduled\_departure, 'HH24:MI:SS') as early\_mrng\_flight\_Timings**

**from flights**

**WHERE to\_char(scheduled\_departure, 'HH24:MISS')**

**BETWEEN '02:00:00'**

**AND '06:00:00';**