**How to attempt questions:**

* Students need to write queries for the questions mentioned in the using Airline DB database
* Airline DB: https://www.skillovilla.com/playground/sql?exerciseId=0181e251-6ea8-4595-ae2b-0c690119f8db

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

 Aircraft\_code,

 fare\_conditions,

 count(seat\_no)

 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)

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

distinct(departure\_airport) as Airport\_name,

count(flight\_no)

from flights

group by 1

order by count(flight\_no) desc

limit 1

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

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

**Answer:**

select

distinct(departure\_airport) as Airport\_name,

count(flight\_no)

from flights

group by 1

order by count(flight\_no) asc

limit 1

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

***Expected Output : Flight Count***

**Answer:**

select

count(flight\_no)

from flights

where departure\_airport = 'DME'

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

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

**Answer:**

select

f.flight\_no,

a.aircraft\_code,

a.range

from aircrafts a

inner join flights f

on a.aircraft\_code = f.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)

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\_no)

from flights

where departure\_airport in ('NOZ','KKR')

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\_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

f.flight\_no,

f.aircraft\_code,

f.departure\_airport,

a.range

from aircrafts a

join flights f

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

where F.departure\_airport = 'DME' AND

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

f.Flight\_id,

a.model

from flights f

left join aircrafts a

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

where status in ('Cancelled','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,

a.model

from flights f

left join aircrafts a

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

where a.model = 'boeing' and status in ('Cancelled','Delayed')

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

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

**Answer:**

select

a.Airport\_name

from flights f

inner join airports a

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

left join aircrafts a

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

 f1.flight\_id,

 f1.flight\_no,

 f1.scheduled\_departure,

 f1.departure\_airport

FROM flights f1

JOIN

    (SELECT

        departure\_airport,

        MAX(scheduled\_departure) AS max\_scheduled\_departure

    FROM flights

    GROUP BY

        departure\_airport) AS f2

ON f1.departure\_airport = f2.departure\_airport

    AND f1.scheduled\_departure = f2.max\_scheduled\_departure

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

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

**Answer:**  SELECT

    f1.flight\_id,

    f1.flight\_no,

    f1.scheduled\_departure,

    f1.departure\_airport

FROM

    flights f1

JOIN

    (SELECT

        departure\_airport,

        MIN(scheduled\_departure) AS min\_scheduled\_departure

    FROM

        flights

    WHERE

        status = 'Cancelled'

    GROUP BY

        departure\_airport) AS f2

ON

    f1.departure\_airport = f2.departure\_airport

    AND f1.scheduled\_departure = f2.min\_scheduled\_departure

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 status = 'Cancelled'

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

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

**Answer:**

select

distinct(f.Flight\_no),

a.range

from flights f

left join aircrafts a

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

order by a.range desc

limit 10