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

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

**Answer:**

***select distinct 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(\*) as seat\_count***

***from seats***

***group by aircraft\_code,***

***fare\_conditions***

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

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

**Answer:**

**select count(distinct aircraft\_code) as count\_of\_aircraft\_codes**

**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 airport\_name**

**from airports**

**where airport\_code in**

**( select departure\_airport**

**from flights**

**group by departure\_airport**

**order by count(flights) desc**

**limit 1)**

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

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

**Answer:**

**select airport\_name**

**from airports**

**where airport\_code in**

**( select departure\_airport**

**from flights**

**group by departure\_airport**

**order by count(flights)**

**limit 1)**

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

***Expected Output : Flight Count***

**Answer:**

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

**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 as flight\_number, ac.aircraft\_code, ac.range**

**from aircrafts ac left join flights f on ac.aircraft\_code=f.aircraft\_code**

**where 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(\*) 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(\*) as flight\_count**

**from flights**

**where departure\_airport in ('NOZ','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(\*) as flight\_count**

**from flights where departure\_airport in ('KZN','DME','NBC','NJC','GDX','SGC','VKO','ROV') group by departure\_airport**

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, ac.aircraft\_code, ac.range, f.departure\_airport**

**from aircrafts ac left join flights f on ac.aircraft\_code=f.aircraft\_code**

**where 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, ac.model**

**from flights f left join aircrafts ac on ac.aircraft\_code = f.aircraft\_code**

**where ac.model like '%Airbus%' and f.status in ('Delayed','Cancelled')**

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, ac.model**

**from flights f left join aircrafts ac on ac.aircraft\_code = f.aircraft\_code**

**where ac.model like '%Boeing%' and f.status in ('Delayed','Cancelled')**

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

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

**Answer:**

**select f1.arrival\_airport**

**from flights f1**

**where status='Cancelled'**

**group by arrival\_airport having count(\*) in**

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

**from flights**

**where status='Cancelled'**

**group by arrival\_airport**

**order by flight\_count desc**

**limit 1)**

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

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

**Answer:**

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

**from flights f left join aircrafts ac on ac.aircraft\_code = f.aircraft\_code**

**where ac.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:**

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

**from flights**

**where (scheduled\_departure, date(scheduled\_departure), departure\_airport) in**

**(select max(scheduled\_departure) as last\_time, date(scheduled\_departure) as curr\_date, departure\_airport**

**from flights f**

**group by curr\_date, departure\_airport**

**order by last\_time desc)**

**order by departure\_airport, scheduled\_departure**

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, sum(tf.amount) as total\_refund**

**from tickets t left join ticket\_flights tf on t.ticket\_no=tf.ticket\_no left join flights f on tf.flight\_id=f.flight\_id**

**where f.status='Cancelled'**

**group by t.passenger\_name**

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

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

**Answer:**

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

**from flights where status='Cancelled' and (scheduled\_departure, date(scheduled\_departure), departure\_airport) in**

**( select min(scheduled\_departure) as first\_time, date(scheduled\_departure) as curr\_date, departure\_airport**

**from flights f group by curr\_date, departure\_airport**

**order by departure\_airport,first\_time desc)**

**order by departure\_airport, scheduled\_departure**

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

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

**Answer:**

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

**from flights f left join aircrafts ac on ac.aircraft\_code = f.aircraft\_code**

**where ac.model like '%Airbus%' and f.status='Cancelled'**

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

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

**Answer:**

**select distinct f.flight\_id, ac.range**

**from flights f left join aircrafts ac on ac.aircraft\_code=f.aircraft\_code where ac.range in**

**( select range**

**from aircrafts**

**order by range desc**

**limit 1)**