Airline Filght Management :

1.Write a query to display the average monthly ticket cost for each flight in ABC Airlines. The query should display the Flight\_Id,From\_location,To\_Location,Month Name as “Month\_Name” and average price as “Average\_Price”

Display the records sorted in ascending order based on flight id and then by Month Name.

15 rows

select f.flight\_id,f.from\_location,f.to\_location,monthname(fd.flight\_departure\_date) as

Month\_name,avg(fd.price) as Average\_price from air\_flight f join air\_flight\_details fd

on f.flight\_id=fd.flight\_id group by f.flight\_id,Month\_name order by f.flight\_id,Month\_name;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FLIGHT\_ID | FROM\_LOCATION | TO\_LOCATION | MONTH\_NAME | AVERAGE\_PRICE |
| 1011 | HYDERABAD | CHENNAI | APRIL | 4614.000000 |
| 1011 | HYDERABAD | CHENNAI | MAY | 3855.500000 |
| 1262 | HYDERABAD | CHENNAI | MAY | 3444.500000 |
| 1265 | CHENNAI | HYDERABAD | APRIL | 4086.000000 |
| 1265 | CHENNAI | HYDERABAD | MAY | 3303.666667 |
| 289 | CHENNAI | KOCHI | MAY | 3257.750000 |
| 3004 | BENGALURU | CHENNAI | MAY | 3319.666667 |
| 3013 | CHENNAI | BENGALURU | MAY | 3257.750000 |
| 3148 | CHENNAI | BENGALURU | JUNE | 2773.000000 |
| 3148 | CHENNAI | BENGALURU | MAY | 3052.000000 |
| 3241 | CHENNAI | KOCHI | MAY | 3303.666667 |
| 3244 | KOCHI | CHENNAI | MAY | 3371.500000 |
| 3307 | BENGALURU | CHENNAI | MAY | 3309.000000 |
| 916 | CHENNAI | HYDERABAD | APRIL | 4086.000000 |
| 916 | CHENNAI | HYDERABAD | MAY | 3570.666667 |

2.Write a query to display the customer(s) who has/have booked least number of tickets in ABC Airlines. The Query should display profile\_id, customer’s first\_name, Address and Number of tickets booked as “No\_of\_Tickets”

Display the records sorted in ascending order based on customer's first name.

1 row

select apf.profile\_id,apf.first\_name,apf.address,count(ati.ticket\_id) as No\_of\_Tickets

from air\_passenger\_profile apf

join air\_ticket\_info ati on apf.profile\_id=ati.profile\_id group by apf.profile\_id having

count(ati.ticket\_id) <=all

(select count(ati.ticket\_id) from air\_passenger\_profile apf

join air\_ticket\_info ati on apf.profile\_id=ati.profile\_id group by apf.profile\_id) order by

first\_name;

|  |  |  |  |
| --- | --- | --- | --- |
| PROFILE\_ID | FIRST\_NAME | ADDRESS | NO\_OF\_TICKETS |
| PFL008 | GANESH | 45 3RD ST,HYDERABAD-24 | 1 |

3.Write a query to display the number of flight services between locations in a month. The Query should display From\_Location, To\_Location, Month as “Month\_Name” and number of flight services as “No\_of\_Services”.

Hint: The Number of Services can be calculated from the number of scheduled departure dates of a flight.

The records should be displayed in ascending order based on From\_Location and then by To\_Location and then by month name

9 rows

select af.from\_location,af.to\_location,monthname(afd.flight\_departure\_date) as Month\_Name,

count(afd.flight\_departure\_date) as No\_of\_Services from air\_flight af join air\_flight\_details afd

on af.flight\_id=afd.flight\_id group by af.from\_location,af.to\_location,month\_name order by

from\_location,to\_location,month\_name;

|  |  |  |  |
| --- | --- | --- | --- |
| FROM\_LOCATION | TO\_LOCATION | MONTH\_NAME | NO\_OF\_SERVICES |
| BENGALURU | CHENNAI | MAY | 7 |
| CHENNAI | BENGALURU | JUNE | 1 |
| CHENNAI | BENGALURU | MAY | 6 |
| CHENNAI | HYDERABAD | APRIL | 2 |
| CHENNAI | HYDERABAD | MAY | 6 |
| CHENNAI | KOCHI | MAY | 7 |
| HYDERABAD | CHENNAI | APRIL | 1 |
| HYDERABAD | CHENNAI | MAY | 4 |
| KOCHI | CHENNAI | MAY | 2 |

4.Write a query to display the customer(s) who has/have booked maximum number of tickets in ABC Airlines. The Query should display profile\_id, customer’s first\_name, Address and Number of tickets booked as “No\_of\_Tickets”

Display the records in ascending order based on customer's first name.

1 row

select app.profile\_id,app.first\_name,app.address,count(ati.ticket\_id) as No\_of\_Tickets

from air\_passenger\_profile app

join air\_ticket\_info ati on app.profile\_id=ati.profile\_id join air\_flight af on ati.flight\_id=af.flight\_id

where af.airline\_name= ’ABC Airlines’ group by app.profile\_id

having count(ati.ticket\_id) >= all (select count(ati.ticket\_id) from air\_passenger\_profile app

join air\_ticket\_info ati on app.profile\_id=ati.profile\_id join air\_flight af on ati.flight\_id=af.flight\_id

where af.airline\_name= ’ABC Airlines’ group by app.profile\_id) order by app.first\_name;

|  |  |  |  |
| --- | --- | --- | --- |
| PROFILE\_ID | FIRST\_NAME | ADDRESS | NO\_OF\_TICKETS |
| PFL009 | RAM | 119 2ND CROSS ST,ERNAKULAM-12 | 8 |

5.Write a query to display the number of tickets booked from Chennai to Hyderabad. The Query should display passenger profile\_id,first\_name,last\_name, Flight\_Id , Departure\_Date and number of tickets booked as “No\_of\_Tickets”.

Display the records sorted in ascending order based on profile id and then by flight id and then by departure date.

3 rows

select ati.profile\_id,app.first\_name,app.last\_name,ati.flight\_id,ati.flight\_departure\_date,count(ati.ticket\_id)

as No\_of\_Tickets from air\_ticket\_info ati join air\_passenger\_profile app on ati.profile\_id=

app.profile\_id join air\_flight af on ati.flight\_id=af.flight\_id

where af.from\_location='chennai' and af.to\_location='hyderabad' group by ati.profile\_id,

ati.flight\_id,ati.flight\_departure\_date order by

ati.profile\_id,

ati.flight\_id,ati.flight\_departure\_date;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PROFILE\_ID | FIRST\_NAME | LAST\_NAME | FLIGHT\_ID | FLIGHT\_DEPARTURE\_DATE | NO\_OF\_TICKETS |
| PFL001 | LATHA | SANKAR | 1265 | 2013-04-29 | 1 |
| PFL004 | AARTHI | RAMESH | 1265 | 2013-05-29 | 1 |
| PFL005 | SIVA | KUMAR | 916 | 2013-05-06 | 2 |

6.Write a query to display flight id,from location, to location and ticket price of flights whose departure is in the month of april.

3 rows

Display the records sorted in ascending order based on flight id and then by from location.

select af.flight\_id,af.from\_location,af.to\_location,afd.price from air\_flight af

join air\_flight\_details afd on af.flight\_id=afd.flight\_id

where monthname(afd.flight\_departure\_date)='april' order by flight\_id,from\_location;

|  |  |  |  |
| --- | --- | --- | --- |
| FLIGHT\_ID | FROM\_LOCATION | TO\_LOCATION | PRICE |
| 1011 | HYDERABAD | CHENNAI | 4614.00 |
| 1265 | CHENNAI | HYDERABAD | 4086.00 |
| 916 | CHENNAI | HYDERABAD | 4086.00 |

7.Write a query to display the average cost of the tickets in each flight on all scheduled dates. The query should display flight\_id, from\_location, to\_location and Average price as “Price”.

Display the records sorted in ascending order based on flight id and then by from\_location and then by to\_location.

11 rows

select af.flight\_id,af.from\_location,af.to\_location,avg(afd.price)

from air\_flight af join air\_flight\_details afd

on af.flight\_id=afd.flight\_id group by af.flight\_id,af.from\_location,af.to\_location

order by af.flight\_id,af.from\_location,af.to\_location;

|  |  |  |  |
| --- | --- | --- | --- |
| FLIGHT\_ID | FROM\_LOCATION | TO\_LOCATION | PRICE |
| 1011 | HYDERABAD | CHENNAI | 4108.333333 |
| 1262 | HYDERABAD | CHENNAI | 3444.500000 |
| 1265 | CHENNAI | HYDERABAD | 3499.250000 |
| 289 | CHENNAI | KOCHI | 3257.750000 |
| 3004 | BENGALURU | CHENNAI | 3319.666667 |
| 3013 | CHENNAI | BENGALURU | 3257.750000 |
| 3148 | CHENNAI | BENGALURU | 2959.000000 |
| 3241 | CHENNAI | KOCHI | 3303.666667 |
| 3244 | KOCHI | CHENNAI | 3371.500000 |
| 3307 | BENGALURU | CHENNAI | 3309.000000 |
| 916 | CHENNAI | HYDERABAD | 3699.500000 |

8.Write a query to display the customers who have booked tickets from Chennai to Hyderabad. The query should display profile\_id, customer\_name (combine first\_name & last\_name with comma in b/w), address of the customer.

Give an alias to the name as customer\_name.

Hint: Query should fetch unique customers irrespective of multiple tickets booked.

Display the records sorted in ascending order based on profile id.

3 rows

select app.profile\_id, concat(app.first\_name,',',app.last\_name) as customer\_name,app.address

from air\_passenger\_profile app join air\_ticket\_info ati on app.profile\_id=ati.profile\_id

join air\_flight af on ati.flight\_id=af.flight\_id where af.from\_location='chennai'

and af.to\_location='hyderabad' group by app.profile\_id order by app.profile\_id;

|  |  |  |
| --- | --- | --- |
| ROFILE\_ID | CUSTOMER\_NAME | ADDRESS |
| PFL001 | LATHA,SANKAR | 123 BROAD CROSS ST,CHENNAI-48 |
| PFL004 | AARTHI,RAMESH | 343 6TH STREET,HYDERABAD-76 |
| PFL005 | SIVA,KUMAR | 125 8TH STREET,CHENNAI-46 |

9.Write a query to display profile id of the passenger(s) who has/have booked maximum number of tickets.

In case of multiple records, display the records sorted in ascending order based on profile id.

2 rows

select profile\_id from air\_ticket\_info group by profile\_id having count(ticket\_id) >= all (select count(ticket\_id)

from air\_ticket\_info group by profile\_id) order by profile\_id;

|  |
| --- |
| PROFILE\_ID |
| PFL002 |
| PFL007 |

10.Write a query to display the total number of tickets as “No\_of\_Tickets” booked in each flight in ABC Airlines. The Query should display the flight\_id, from\_location, to\_location and the number of tickets.

Display only the flights in which atleast 1 ticket is booked.

Display the records sorted in ascending order based on flight id.

7 rows

select af.flight\_id,af.from\_location,af.to\_location,count(ati.ticket\_id) as No\_of\_Tickets

from air\_flight af join air\_ticket\_info ati on af.flight\_id=ati.flight\_id

group by af.flight\_id having count(ati.ticket\_id) >= 1;

|  |  |  |  |
| --- | --- | --- | --- |
| IGHT\_ID | FROM\_LOCATION | TO\_LOCATION | NO\_OF\_TICKETS |
| 1011 | HYDERABAD | CHENNAI | 4 |
| 1262 | HYDERABAD | CHENNAI | 1 |
| 1265 | CHENNAI | HYDERABAD | 2 |
| 3004 | BENGALURU | CHENNAI | 3 |
| 3148 | CHENNAI | BENGALURU | 7 |
| 3244 | KOCHI | CHENNAI | 7 |
| 916 | CHENNAI | HYDERABAD | 2 |

11.Write a query to display the no of services offered by each flight and the total price of the services. The Query should display flight\_id, number of services as “No\_of\_Services” and the cost as “Total\_Price” in the same order.

Order the result by Total Price in descending order and then by flight\_id in descending order.

Hint:The number of services can be calculated from the number of scheduled departure dates of the flight

11 rows

select af.flight\_id, count(afd.flight\_departure\_date) as No\_of\_Services, sum(afd.price) as

Total\_Price from air\_flight af join air\_flight\_details afd on af.flight\_id=afd.flight\_id

group by flight\_id

order by total\_price desc,flight\_id desc;

|  |  |  |
| --- | --- | --- |
| FLIGHT\_ID | NO\_OF\_SERVICES | TOTAL\_PRICE |
| 916 | 4 | 14798.00 |
| 1265 | 4 | 13997.00 |
| 3307 | 4 | 13236.00 |
| 3013 | 4 | 13031.00 |
| 289 | 4 | 13031.00 |
| 1011 | 3 | 12325.00 |
| 3004 | 3 | 9959.00 |
| 3241 | 3 | 9911.00 |
| 3148 | 3 | 8877.00 |
| 1262 | 2 | 6889.00 |
| 3244 | 2 | 6743.00 |

12.Write a query to display the number of passengers who have travelled in each flight in each scheduled date. The Query should display flight\_id, flight\_departure\_date and the number of passengers as “No\_of\_Passengers” in the same order.

Display the records sorted in ascending order based on flight id and then by flight departure date.

9 rows

SELECT flight\_id,

flight\_departure\_date,

COUNT(ticket\_id) AS No\_of\_Passengers

FROM air\_ticket\_info

GROUP BY flight\_id,

flight\_departure\_date

ORDER BY flight\_id, flight\_departure\_date;t

|  |  |  |
| --- | --- | --- |
| FLIGHT\_ID | FLIGHT\_DEPARTURE\_DATE | NO\_OF\_PASSENGERS |
| 1011 | 2013-05-09 | 4 |
| 1262 | 2013-05-20 | 1 |
| 1265 | 2013-04-29 | 1 |
| 1265 | 2013-05-29 | 1 |
| 3004 | 2013-05-02 | 3 |
| 3148 | 2013-05-21 | 2 |
| 3148 | 2013-06-01 | 5 |
| 3244 | 2013-05-03 | 7 |
| 916 | 2013-05-06 | 2 |

13.Write a query to display profile id of passenger(s) who booked minimum number of tickets.

In case of multiple records, display the records sorted in ascending order based on profile id.

1 row

select profile\_id from air\_ticket\_info group by profile\_id having count(profile\_id) <= all

(select count(profile\_id) from air\_ticket\_info group by profile\_id) order by profile\_id;

|  |
| --- |
| PROFILE\_ID |
| PFL008 |

14.Write a query to display unique passenger profile id,first name,mobile number and email address of passengers who booked ticket to travel from HYDERABAD to CHENNAI.

**Display the records sorted in ascending order based on profile id.**

4 rows

select distinct ati.profile\_id,app.first\_name,app.mobile\_number,app.email\_id

from air\_ticket\_info

ati join air\_passenger\_profile app on ati.profile\_id=app.profile\_id join air\_flight af

on ati.flight\_id=af.flight\_id

where af.from\_location='hyderabad' and af.to\_location='chennai' order by profile\_id;

|  |  |  |  |
| --- | --- | --- | --- |
| PROFILE\_ID | FIRST\_NAME | MOBILE\_NUMBER | EMAIL\_ID |
| PFL001 | LATHA | 9876543210 | LATHA@GMAIL.COM |
| PFL004 | AARTHI | 9595652530 | AARTHI@GMAIL.COM |
| PFL005 | SIVA | 9884416986 | SIVA@GMAIL.COM |
| PFL008 | GANESH | 9375237890 | GANESH@GMAIL.COM |

15.Write a query to intimate the passengers who are boarding Chennai to Hyderabad Flight on 6th May 2013 stating the delay of 1hr in the departure time. The Query should display the passenger’s profile\_id, first\_name,last\_name, flight\_id, flight\_departure\_date, actual departure time , actual arrival time , delayed departure time as "Delayed\_Departure\_Time", delayed arrival time as "Delayed\_Arrival\_Time" Hint: Distinct Profile ID should be displayed irrespective of multiple tickets booked by the same profile.

Display the records sorted in ascending order based on passenger's profile id.

1 row

select distinct app.profile\_id,app.first\_name,app.last\_name,ati.flight\_id,ati.flight\_departure\_date,

af.departure\_time,af.arrival\_time, af.departure\_time ,ADDTIME(af.departure\_time,'1:00:00') as Delayed\_Departure\_Time,

ADDTIME(af.arrival\_time,'1:00:00') as Delayed\_Arrival\_Time from air\_passenger\_profile app

join air\_ticket\_info ati on app.profile\_id=ati.profile\_id join air\_flight af on

ati.flight\_id=af.flight\_id where ati.flight\_departure\_date='2013-05-06' order by app.profile\_id;

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PROFILE\_  ID | FIRST  \_NAME | LAST\_NAME | FLIGHT  \_ID | FLIGHT\_  DEPARTURE  \_DATE | DEPARTURE\_TIME | ARRIVAL  \_TIME | DELAYED\_DEPARTURE\_TIME | DELAYED\_ARRIVAL\_TIME |
| PFL005 | SIVA | KUMAR | 916 | 2013-05-06 | 19:55:00 | 21:00:00 | 20:55:00 | 22:00:00 |

|  |  |
| --- | --- |
| DELAYED\_DEPARTURE\_TIME | DELAYED\_ARRIVAL\_TIME |
| 20:55:00 | 22:00:00 |

16.Write a query to display the number of tickets as “No\_of\_Tickets” booked by Kochi Customers. The Query should display the Profile\_Id, First\_Name, Base\_Location and number of tickets booked.

Hint: Use String functions to get the base location of customer from their Address and give alias name as “Base\_Location”

Display the records sorted in ascending order based on customer first name.

2 rows

select ap.profile\_id,ap.first\_name,substring\_index(substring\_index(ap.address,',',-1),'-',1)

as base\_location,count(at.ticket\_id) as No\_of\_Tickets from air\_passenger\_profile ap join air\_ticket\_info at

on at.profile\_id=ap.profile\_id

where substring\_index(substring\_index(ap.address,',',-1),'-',1) ='kochi'

group by ap.profile\_id order by first\_name

|  |  |  |  |
| --- | --- | --- | --- |
| PROFILE\_ID | FIRST\_NAME | BASE\_LOCATION | NO\_OF\_TICKETS |
| PFL003 | AMIT | KOCHI | 3 |
| PFL006 | RAMESH | KOCHI | 4 |

17.Write a query to display the flight\_id, from\_location, to\_location, number of Services as “No\_of\_Services” offered in the month of May.

Hint:The number of services can be calculated from the number of scheduled departure dates of the flight

Display the records sorted in ascending order based on flight id.

11 rows

select af.flight\_id,af.from\_location,af.to\_location,count(afd.flight\_departure\_date)

as No\_of\_Services from air\_flight af join air\_flight\_details afd

on af.flight\_id=afd.flight\_id where month(afd.flight\_departure\_date)='05'

group by flight\_id order by flight\_id;

|  |  |  |  |
| --- | --- | --- | --- |
| FLIGHT\_ID | FROM\_LOCATION | TO\_LOCATION | NO\_OF\_SERVICES |
| 1011 | HYDERABAD | CHENNAI | 2 |
| 1262 | HYDERABAD | CHENNAI | 2 |
| 1265 | CHENNAI | HYDERABAD | 3 |
| 289 | CHENNAI | KOCHI | 4 |
| 3004 | BENGALURU | CHENNAI | 3 |
| 3013 | CHENNAI | BENGALURU | 4 |
| 3148 | CHENNAI | BENGALURU | 2 |
| 3241 | CHENNAI | KOCHI | 3 |
| 3244 | KOCHI | CHENNAI | 2 |
| 3307 | BENGALURU | CHENNAI | 4 |
| 916 | CHENNAI | HYDERABAD | 3 |

18.Write a query to display profile id,last name,mobile number and email id of passengers whose base location is chennai.

Display the records sorted in ascending order based on profile id.

2 rows

select profile\_id,last\_name,mobile\_number,email\_id from air\_passenger\_profile where

substring\_index(substring\_index(address,',',-1),'-',1)='chennai'

order by profile\_id;

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | PROFILE\_ID | LAST\_NAME | MOBILE\_NUMBER | EMAIL\_ID | | PFL001 | SANKAR | 9876543210 | LATHA@GMAIL.COM | | PFL005 | KUMAR | 9884416986 | SIVA@GMAIL.COM | |  |  |  |  | |  |  |  |  | |

18.Write a query to display number of flights between 6.00 AM and 6.00 PM from chennai. Hint Use FLIGHT\_COUNT as alias name.

1 row

select count(flight\_id) as FLIGHT\_COUNT from air\_flight where departure\_time between

'6:00:00' and '18:00:00' and from\_location='chennai';;

|  |
| --- |
| FLIGHT\_COUNT |
| 3 |

19.Write a query to display unique profile id,first name , email id and contact number of passenger(s) who travelled on flight with id 3148. Display the records sorted in ascending order based on first name.

2 rows

select distinct app.profile\_id,app.first\_name,app.email\_id,app.mobile\_number from air\_passenger\_profile app

join air\_ticket\_info ati on app.profile\_id=ati.profile\_id

where ati.flight\_id= 3148 group by app.first\_name order by app.first\_name;

|  |  |  |  |
| --- | --- | --- | --- |
| PROFILE\_ID | FIRST\_NAME | EMAIL\_ID | MOBILE\_NUMBER |
| PFL002 | ARUN | ARUN@AOL.COM | 8094564243 |
| PFL007 | GAYATHRI | GAYATHRI@GMAIL.COM | 8073245678 |

20.Write a query to display the flights available in Morning, AfterNoon, Evening & Night. The Query should display the Flight\_Id, From\_Location, To\_Location , Departure\_Time, time of service as "Time\_of\_Service".

Time of Service should be calculated as: From 05:00:01 Hrs to 12:00:00 Hrs - Morning, 12:00:01 to 18:00:00 Hrs -AfterNoon, 18:00:01 to 24:00:00 - Evening and 00:00:01 to 05:00:00 - Night

Display the records sorted in ascending order based on flight id.

11 rows

select flight\_id,from\_location,to\_location,departure\_time,

case when departure\_time between '05:00:01' and '12:00:00' then 'Morning'

when departure\_time between '12:00:01' and '18:00:00' then 'Afternoon'

when departure\_time between '18:00:01' and '24:00:00' then 'Evening'

when departure\_time between '00:00:01' and '05:00:00' then 'Night'

end as Time\_of\_Service

from air\_flight order by flight\_id;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FLIGHT\_ID | FROM\_LOCATION | TO\_LOCATION | DEPARTURE\_TIME | TIME\_OF\_SERVICE |
| 1011 | HYDERABAD | CHENNAI | 12:30:00 | AFTERNOON |
| 1262 | HYDERABAD | CHENNAI | 06:00:00 | MORNING |
| 1265 | CHENNAI | HYDERABAD | 21:25:00 | EVENING |
| 289 | CHENNAI | KOCHI | 08:40:00 | MORNING |
| 3004 | BENGALURU | CHENNAI | 09:05:00 | MORNING |
| 3013 | CHENNAI | BENGALURU | 07:40:00 | MORNING |
| 3148 | CHENNAI | BENGALURU | 20:15:00 | EVENING |
| 3241 | CHENNAI | KOCHI | 10:40:00 | MORNING |
| 3244 | KOCHI | CHENNAI | 21:10:00 | EVENING |
| 3307 | BENGALURU | CHENNAI | 18:45:00 | EVENING |
| 916 | CHENNAI | HYDERABAD | 19:55:00 | EVENING |

21.Please follow instructions given below.

Write a query to display flight id,departure date,flight type of all flights. Flight type can be identified based on the following rules : if ticket price is less than 3000 then 'AIR PASSENGER',ticket price between 3000 and less than 4000 'AIR BUS' and ticket price between 4000 and greater than 4000 then 'EXECUTIVE PASSENGER'. Hint use FLIGHT\_TYPE as alias name.

Display the records sorted in ascendeing order based on flight\_id and then by departure date.

36 rows

select flight\_id,flight\_departure\_date,

case when price<3000 then 'AIR PASSENGER'

when price>=3000 and price<=4000 then 'AIR BUS'

when price>4000 then 'EXECUTIVE PASSENGER'

end as FLIGHT\_TYPE from air\_flight\_details order by flight\_id,flight\_departure\_date;

|  |  |  |
| --- | --- | --- |
| FLIGHT\_ID | FLIGHT\_DEPARTURE\_DATE | FLIGHT\_TYPE |
| 1011 | 2013-04-30 | EXECUTIVE PASSENGER |
| 1011 | 2013-05-09 | EXECUTIVE PASSENGER |
| 1011 | 2013-05-21 | AIR BUS |
| 1262 | 2013-05-20 | AIR BUS |
| 1262 | 2013-05-29 | AIR BUS |
| 1265 | 2013-04-29 | EXECUTIVE PASSENGER |
| 1265 | 2013-05-14 | AIR BUS |
| 1265 | 2013-05-18 | EXECUTIVE PASSENGER |
| 1265 | 2013-05-29 | AIR PASSENGER |
| 289 | 2013-05-06 | AIR BUS |
| 289 | 2013-05-08 | AIR BUS |
| 289 | 2013-05-20 | AIR BUS |
| 289 | 2013-05-31 | AIR PASSENGER |
| 3004 | 2013-05-02 | AIR BUS |
| 3004 | 2013-05-19 | AIR BUS |
| 3004 | 2013-05-24 | AIR BUS |
| 3013 | 2013-05-04 | AIR BUS |
| 3013 | 2013-05-06 | AIR BUS |
| 3013 | 2013-05-22 | AIR BUS |
| 3013 | 2013-05-30 | AIR PASSENGER |
| 3148 | 2013-05-16 | AIR BUS |
| 3148 | 2013-05-21 | AIR BUS |
| 3148 | 2013-06-01 | AIR PASSENGER |
| 3241 | 2013-05-01 | EXECUTIVE PASSENGER |
| 3241 | 2013-05-13 | AIR BUS |
| 3241 | 2013-05-27 | AIR PASSENGER |
| 3244 | 2013-05-03 | AIR BUS |
| 3244 | 2013-05-15 | AIR BUS |
| 3307 | 2013-05-03 | AIR BUS |
| 3307 | 2013-05-03 | AIR BUS |
| 3307 | 2013-05-23 | AIR BUS |
| 3307 | 2013-05-29 | AIR BUS |
| 916 | 2013-04-28 | EXECUTIVE PASSENGER |
| 916 | 2013-05-01 | EXECUTIVE PASSENGER |
| 916 | 2013-05-06 | AIR BUS |
| 916 | 2013-05-12 | AIR BUS |

22.Please follow instructions given below.

Write a query to display the credit card type and no of credit cards used on the same type. Display the records sorted in ascending order based on credit card type.

Hint: Use CARD\_COUNT AS Alias name for no of cards.

3 rows

SELECT CARD\_TYPE,count(card\_type) CARD\_COUNT FROM air\_credit\_card\_details group by CARD\_TYPE order by CARD\_TYPE;

|  |  |
| --- | --- |
| CARD\_TYPE | CARD\_COUNT |
| GOLD | 3 |
| INSTANT | 2 |
| PLATINIUM | 3 |

23.Please follow instructions given below.

Write a Query to display serial no, first name,mobile number,email id of all the passengers who holds email address from gmail.com.

The Serial No will be the last three digits of profile ID.

Hint: Use SERIAL\_NO as Alias name for serial number.

Display the records sorted in ascending order based on name.

6 rows

select substring(profile\_id,4) as SERIAL\_NO,first\_name,mobile\_number,email\_id

from air\_passenger\_profile where email\_id like '%gmail.com' order by first\_name;

|  |  |  |  |
| --- | --- | --- | --- |
| SERIAL\_NO | FIRST\_NAME | MOBILE\_NUMBER | EMAIL\_ID |
| 004 | AARTHI | 9595652530 | AARTHI@GMAIL.COM |
| 008 | GANESH | 9375237890 | GANESH@GMAIL.COM |
| 007 | GAYATHRI | 8073245678 | GAYATHRI@GMAIL.COM |
| 001 | LATHA | 9876543210 | LATHA@GMAIL.COM |
| 006 | RAMESH | 9432198760 | RAMESH@GMAIL.COM |
| 005 | SIVA | 9884416986 | SIVA@GMAIL.COM |

24.Please follow instructions given below.

Write a query to display the flight(s) which has least number of services in the month of May. The Query should fetch flight\_id, from\_location, to\_location, least number of Services as “No\_of\_Services” Hint: Number of services offered can be calculated from the number of scheduled departure dates of a flight

If there are multiple flights, display them sorted in ascending order based on flight id.

4 rows

select af.flight\_id,af.from\_location,af.to\_location,count(afd.flight\_departure\_date) as

No\_of\_Services from air\_flight af join air\_flight\_details afd on

af.flight\_id=afd.flight\_id where month(afd.flight\_departure\_date)='05' group by af.flight\_id

having count(afd.flight\_departure\_date)

<= all (select count(afd.flight\_departure\_date) from air\_flight af join air\_flight\_details afd on

af.flight\_id=afd.flight\_id where month(afd.flight\_departure\_date)='05' group by af.flight\_id)

order by af.flight\_id;

|  |  |  |  |
| --- | --- | --- | --- |
| LIGHT\_ID | FROM\_LOCATION | TO\_LOCATION | NO\_OF\_SERVICES |
| 1011 | HYDERABAD | CHENNAI | 2 |
| 1262 | HYDERABAD | CHENNAI | 2 |
| 3148 | CHENNAI | BENGALURU | 2 |
| 3244 | KOCHI | CHENNAI | 2 |

25.Please follow instructions given below.

Write a query to display the number of flights flying from each location. The Query should display the from location and the number of flights to other locations as “No\_of\_Flights”.

Hint: Get the distinct from location and to location.

Display the records sorted in ascending order based on from location.

4 rows

select distinct from\_location,count(to\_location) as No\_of\_Flights from air\_flight

group by from\_location order by from\_location;

|  |  |
| --- | --- |
| FROM\_LOCATION | NO\_OF\_FLIGHTS |
| BENGALURU | 2 |
| CHENNAI | 6 |
| HYDERABAD | 2 |
| KOCHI | 1 |

26.Please follow instructions given below.

Write a query to display the number of passengers traveled in each flight in each scheduled date. The Query should display flight\_id,from\_location,To\_location, flight\_departure\_date and the number of passengers as “No\_of\_Passengers”.

Hint: The Number of passengers inclusive of all the tickets booked with single profile id.

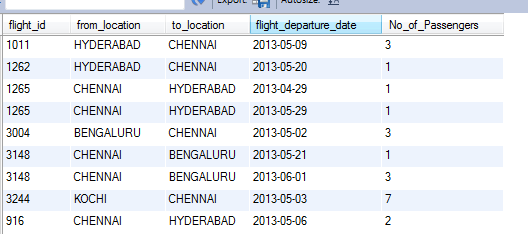
Display the records sorted in ascending order based on flight id and then by flight departure date.

9 rows

select af.flight\_id,af.from\_location,af.to\_location,ati.flight\_departure\_date,count(ati.ticket\_id)

as No\_of\_Passengers from air\_flight af join air\_ticket\_info ati on af.flight\_id=ati.flight\_id

group by af.flight\_id,ati.flight\_departure\_date order by af.flight\_id,ati.flight\_departure\_date;



27.Please follow instructions given below.

Write a query to display the flight details in which more than 10% of seats have been booked. The query should display Flight\_Id, From\_Location, To\_Location,Total\_Seats, seats booked as “No\_of\_Seats\_Booked” .

Display the records sorted in ascending order based on flight id and then by No\_of\_Seats\_Booked.

1 row

select af.flight\_id,af.from\_location,af.to\_location,af.total\_seats,(af.total\_seats-afd.available\_seats)

as No\_of\_Seats\_Booked from air\_flight af join air\_flight\_details afd on af.flight\_id=

afd.flight\_id where (af.total\_seats-afd.available\_seats)>(af.total\_seats\*0.1) group by flight\_id order by

flight\_id,No\_of\_Seats\_Booked;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FLIGHT\_ID | FROM\_LOCATION | TO\_LOCATION | TOTAL\_SEATS | NO\_OF\_SEATS\_BOOKED |
| 3244 | KOCHI | CHENNAI | 50 | 7 |

28.Please follow instructions given below.

Write a query to display the Flight\_Id, Flight\_Departure\_Date, From\_Location,To\_Location and Duration of all flights which has duration of travel less than 1 Hour, 10 Minutes.

Display the records sorted in ascending order based on flight id and then by flight departure date.

14 rows

select af.flight\_id,afd.flight\_departure\_date,af.from\_location,af.to\_location,af.duration

from air\_flight af join air\_flight\_details afd on af.flight\_id=afd.flight\_id

where duration<'1:10:00' group by af.flight\_id,afd.flight\_departure\_date

order by af.flight\_id,afd.flight\_departure\_date;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FLIGHT\_ID | FLIGHT\_DEPARTURE\_DATE | FROM\_LOCATION | TO\_LOCATION | DURATION |
| 3013 | 2013-05-04 | CHENNAI | BENGALURU | 01:05:00 |
| 3013 | 2013-05-06 | CHENNAI | BENGALURU | 01:05:00 |
| 3013 | 2013-05-22 | CHENNAI | BENGALURU | 01:05:00 |
| 3013 | 2013-05-30 | CHENNAI | BENGALURU | 01:05:00 |
| 3148 | 2013-05-16 | CHENNAI | BENGALURU | 01:05:00 |
| 3148 | 2013-05-21 | CHENNAI | BENGALURU | 01:05:00 |
| 3148 | 2013-06-01 | CHENNAI | BENGALURU | 01:05:00 |
| 3307 | 2013-05-03 | BENGALURU | CHENNAI | 01:00:00 |
| 3307 | 2013-05-23 | BENGALURU | CHENNAI | 01:00:00 |
| 3307 | 2013-05-29 | BENGALURU | CHENNAI | 01:00:00 |
| 916 | 2013-04-28 | CHENNAI | HYDERABAD | 01:05:00 |
| 916 | 2013-05-01 | CHENNAI | HYDERABAD | 01:05:00 |
| 916 | 2013-05-06 | CHENNAI | HYDERABAD | 01:05:00 |
| 916 | 2013-05-12 | CHENNAI | HYDERABAD | 01:05:00 |

29.Please follow instructions given below.

Write a query to display the flight\_id, from\_location,to\_location,number of services as “No\_of\_Services” , average ticket price as “Average\_Price” whose average ticket price is greater than the total average ticket cost of all flights. Order the result by lowest average price.

4 rows

select af.flight\_id,af.from\_location,af.to\_location,count(afd.flight\_departure\_date) as No\_of\_Services,

avg(afd.price) as Average\_Price from air\_flight af join air\_flight\_details afd

on af.flight\_id=afd.flight\_id group by af.flight\_id having avg(afd.price)>

(select avg(afd.price) from air\_flight\_details afd) order by afd.price;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| FLIGHT\_ID | FROM\_LOCATION |  | TO\_LOCATION | NO\_OF\_SERVICES | AVERAGE\_PRICE |
| 1262 | HYDERABAD |  | CHENNAI | 2 | 3444.500000 |
| 1265 | CHENNAI |  | HYDERABAD | 4 | 3499.250000 |
| 916 | CHENNAI |  | HYDERABAD | 4 | 3699.500000 |
| 1011 | HYDERABAD |  | CHENNAI | 3 | 4108.333333 |