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.

SELECT f.flight\_id,

f.from\_location,

f.to\_location,

fp.Month\_Name,

fp.Average\_Price

FROM air\_flight f,

(

SELECT flight\_id,

MONTHNAME(flight\_departure\_date) AS Month\_Name,

AVG(price) as Average\_Price

FROM air\_flight\_details

GROUP BY flight\_id,

MONTHNAME(flight\_departure\_date)

) fp

WHERE f.flight\_id = fp.flight\_id

and f.airline\_name = 'ABC AIRLINES'

order by f.flight\_id, fp.Month\_Name;

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.

SELECT cus.profile\_id,

cus.first\_name,

cus.address,

mintkt.No\_of\_Tickets

FROM air\_passenger\_profile cus,

(SELECT MIN(s.Tot\_No\_of\_Tickets) AS No\_of\_Tickets

FROM (SELECT profile\_id,

COUNT(ticket\_id) AS Tot\_No\_of\_Tickets

FROM air\_ticket\_info

GROUP BY profile\_id

) s

) mintkt,

( SELECT profile\_id,

COUNT(ticket\_id) AS Tot\_No\_of\_Tickets

FROM air\_ticket\_info

GROUP BY profile\_id

) tottkt

WHERE mintkt.No\_of\_Tickets = tottkt.Tot\_No\_of\_Tickets

AND cus.profile\_id = tottkt.profile\_id

order by cus.first\_name;

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.

SELECT f.from\_location,

f.to\_location,

s.Month\_Name,

SUM(s.No\_of\_Services) AS No\_of\_Services

FROM air\_flight f JOIN

(SELECT flight\_id,

MONTHNAME(flight\_departure\_date) AS Month\_Name,

COUNT(flight\_departure\_date) AS No\_of\_Services

FROM air\_flight\_details

GROUP BY flight\_id,

MONTHNAME(flight\_departure\_date)

) s

ON s.flight\_id = f.flight\_id

GROUP BY f.from\_location,

f.to\_Location,

s.Month\_Name

order by f.from\_location,

f.to\_Location, s.Month\_Name;

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.

SELECT cus.profile\_id,

cus.first\_name,

cus.address,

maxtkt.No\_of\_Tickets as No\_of\_Tickets

FROM air\_passenger\_profile cus,

(SELECT MAX(s.Tot\_No\_of\_Tickets) AS No\_of\_Tickets

FROM (SELECT profile\_id,

COUNT(ticket\_id) AS Tot\_No\_of\_Tickets

FROM air\_ticket\_info

GROUP BY profile\_id

) s

) maxtkt,

( SELECT profile\_id,

COUNT(ticket\_id) AS Tot\_No\_of\_Tickets

FROM air\_ticket\_info

GROUP BY profile\_id

) tottkt

WHERE maxtkt.No\_of\_Tickets = tottkt.Tot\_No\_of\_Tickets

AND cus.profile\_id = tottkt.profile\_id

order by cus.first\_name;

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.

SELECT cus.profile\_id,

cus.first\_name,

cus.last\_name,

tkt.flight\_id,

tkt.flight\_departure\_date,

tkt.No\_of\_Tickets

FROM air\_passenger\_profile cus JOIN

(

SELECT profile\_id, FLIGHT\_ID,FLIGHT\_DEPARTURE\_DATE,COUNT(ticket\_id) AS No\_of\_Tickets

FROM air\_ticket\_info

WHERE flight\_id IN (SELECT flight\_id

FROM air\_flight

WHERE from\_location = 'Chennai'

AND to\_location = 'Hyderabad'

)

GROUP BY profile\_id,flight\_id,flight\_departure\_date

)tkt

ON cus.profile\_id = tkt.profile\_id

order by cus.profile\_id, tkt.flight\_id, tkt.flight\_departure\_date;

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

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

SELECT fd.flight\_id,af.FROM\_LOCATION,af.TO\_LOCATION, fd.price FROM air\_flight\_details fd join air\_flight af on af.FLIGHT\_ID=fd.FLIGHT\_ID where substring(fd.flight\_departure\_date,6,2)='04' order by fd.flight\_id, af.FROM\_LOCATION;

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.

SELECT f.flight\_id,

f.from\_location,

f.to\_location,

AVG(fd.Price) AS Price

FROM air\_flight f JOIN

air\_flight\_details fd

ON f.flight\_id = fd.flight\_id

GROUP BY f.flight\_id order by f.flight\_id, f.from\_location, f.to\_location;

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.

SELECT DISTINCT c.profile\_id,

CONCAT(c.first\_name, ',',c.last\_name) AS customer\_name,

c.address

FROM air\_passenger\_profile c

JOIN air\_ticket\_info t

ON c.profile\_id = t.profile\_id

JOIN air\_flight f

ON f.flight\_id = t.flight\_id

AND f.from\_location = 'Chennai'

AND f.to\_location = 'Hyderabad'

order by c.profile\_id;

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.

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;

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.

SELECT f.flight\_id,

f.from\_location,

f.to\_location,

COUNT(t.ticket\_id) AS No\_of\_Tickets

FROM air\_ticket\_info t JOIN

air\_flight f

ON f.flight\_id = t.flight\_id

where AIRLINE\_NAME = 'ABC AIRLINES'

GROUP by f.flight\_id

ORDER by f.flight\_id;

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

SELECT flight\_id,

COUNT(flight\_departure\_date) AS No\_of\_Services,

SUM(price) AS Total\_Price

FROM air\_flight\_details

GROUP BY flight\_id order by total\_price DESC, flight\_id DESC;

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.

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;

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.

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;

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.

SELECT distinct ti.PROFILE\_ID,pi.first\_name,pi.mobile\_number, pi.email\_id FROM air\_ticket\_info ti join air\_passenger\_profile pi on pi.profile\_id=ti.profile\_id where flight\_id in (SELECT FLIGHT\_ID FROM air\_flight where FROM\_LOCATION ='HYDERABAD' and to\_location ='CHENNAI') order by ti.profile\_id

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.

SELECT DISTINCT p.profile\_id,

p.first\_name,

p.last\_name,

t.flight\_id,

t.flight\_departure\_date,

f.departure\_time,

f.arrival\_time,

ADDTIME(f.departure\_time,'01:00:00') AS Delayed\_Departure\_Time,

ADDTIME(f.arrival\_time,'01:00:00') AS Delayed\_Arrival\_Time

FROM air\_passenger\_profile p

JOIN air\_ticket\_info t

ON p.profile\_id = t.profile\_id

AND t.flight\_departure\_date = '2013-05-06'

JOIN air\_flight f

ON t.flight\_id = f.flight\_id

AND f.from\_location = 'Chennai'

AND f.to\_location = 'Hyderabad'

order by p.profile\_id;

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.

SELECT cus.profile\_id,

cus.First\_name,

SUBSTR(cus.address,INSTR(cus.address,',')+1,INSTR(cus.address,'-')- INSTR(cus.address,',')-1)

AS Base\_Location,

s.No\_of\_Tickets

FROM air\_passenger\_profile cus JOIN

(

SELECT profile\_id,

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

FROM air\_ticket\_info

GROUP BY profile\_id

)s

ON s.profile\_id = cus.profile\_id

AND SUBSTR(cus.address,INSTR(cus.address,',')+1,INSTR(cus.address,'-')- INSTR(cus.address,',')-1) = 'Kochi'

order by first\_name;

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.

SELECT f.flight\_id,

f.from\_location,

f.to\_location,

s.No\_of\_Services

FROM air\_flight f JOIN

(

SELECT flight\_id,

COUNT(flight\_departure\_date) AS No\_of\_Services

FROM air\_flight\_details

WHERE MONTH(flight\_departure\_date) = 5

GROUP BY flight\_id

) s

ON f.flight\_id = s.flight\_id

order by f.flight\_id;

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.

SELECT PROFILE\_ID,LAST\_NAME,MOBILE\_NUMBER,EMAIL\_ID FROM air\_passenger\_profile where address like '%CHENNAI%' ORDER BY PROFILE\_ID;

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.

SELECT count(flight\_id) FLIGHT\_COUNT FROM air\_flight where FROM\_LOCATION='CHENNAI' and departure\_time between '06:00:00' and '18:00:00';

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.

SELECT distinct ti.PROFILE\_ID,pi.first\_name,pi.email\_id,pi.mobile\_number FROM air\_ticket\_info ti join air\_passenger\_profile pi on pi.profile\_id=ti.profile\_id where flight\_id=3148 order by pi.first\_name;