**FIS**

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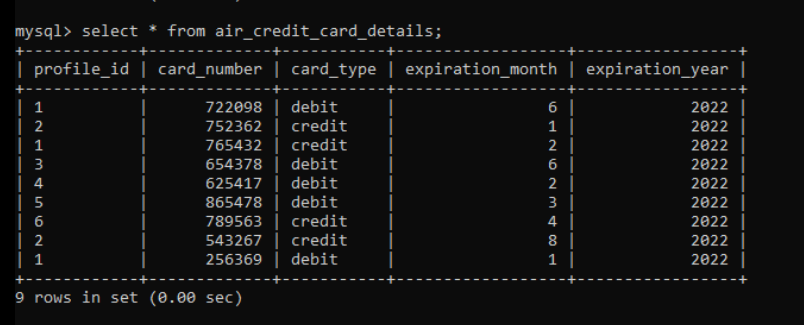
TABLE LIST:

Text

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**TABLE DATA**

AIR\_CREDIT\_CARD\_DETAILS



AIR\_FLIGHT

Graphical user interface

Description automatically generated

AIR\_FLIGHT\_DETAILS

Graphical user interface

Description automatically generated

AIR\_PASSENGER\_PROFILE

Graphical user interface, text

Description automatically generated

AIR\_TICKET\_INFO

Graphical user interface

Description automatically generated with medium confidence

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|  | **AIRLINE QUERIES SOLUTIONS:**  **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.  **Solution :**  **select a.flight\_id,a.from\_location,a.to\_location, monthname(b.flight\_departure\_date) as month\_name, avg(price) as average from air\_flight a join air\_flight\_details b on a.flight\_id=b.flight\_id where a.airline\_name='air01' group by a.flight\_id,month\_name order by a.flight\_id,month\_name;** |
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|  | **2.** 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. |
|  | **Solution:**  **select a.from\_location,a.to\_location,monthname(b.flight\_departure\_date) as month\_name, count(b.flight\_departure\_date) as no\_of\_services from air\_flight a join air\_flight\_details b on a.flight\_id=b.flight\_id group by month\_name order by a.from\_location, a.to\_location,month\_name;** |
|  | **3.** 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. |
|  | **Solution:**  **select a.profile\_id,a.first\_name,a.address,count(b.ticket\_id) as no\_of\_tickets from air\_passenger\_profile a join air\_ticket\_info b on a.profile\_id=b.profile\_id join air\_flight d on b.flight\_id=d.flight\_id where d.airline\_name='air01' group by a.profile\_id having count(b.ticket\_id)<=all (select count(ticket\_id) from air\_ticket\_info where flight\_id in (select flight\_id from air\_flight where airline\_name='air01') group by profile\_id) order by a.first\_name;** |
|  | **4**. 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.  **Solution:**  **select a.flight\_id,a.from\_location,a.to\_location,b.price from air\_flight a join air\_flight\_details b on a.flight\_id=b.flight\_id where monthname(b.flight\_departure\_date)='april' order by a.flight\_id,a.from\_location;** |
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|  | **5.** 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  **Solution:**  **select a.flight\_id,sum(b.price) as total\_price, count(a.flight\_departure\_date) as no\_of\_services from air\_ticket\_info a join air\_flight\_details b on a.flight\_id=b.flight\_id group by flight\_id order by total\_price desc,flight\_id desc**; |
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|  | **6.** 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.  **Solution:**  **select a.profile\_id from air\_passenger\_profile as a join air\_ticket\_info b on a.profile\_id=b.profile\_id group by a.profile\_id having count(ticket\_id)=(select max(c) from (select count(ticket\_id) as c from air\_ticket\_info group by profile\_id)t) order by a.profile\_id;** |
|  |  |
|  | **7.** Write a query to display unique profile id,first name , email id and contact number of passenger(s) |
|  | who travelled on flight with id 3178. Display the records sorted in ascending order based on first |
|  | name.  **Solution:**  **select a.profile\_id,a.first\_name,a.mobile\_number,a.email\_id from air\_passenger\_profile a join air\_ticket\_info b on a.profile\_id=b.profile\_id where b.flight\_id='7771' order by a.first\_name;** |
|  |  |
|  | **8.** 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.  **Solution:**  **Select card\_type, count(card\_type) card\_count from air\_credit\_card\_details group by card\_type order by card\_type;**   |  |  | | --- | --- | |  |  | |
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|  | **9**. 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 - NightDisplay the records sorted in ascending order based on flight id  **Note : Couldn’t Solve it**  Solution:  Select flight\_id, from\_location, to\_location, departure\_time, (SELECT DATE(D.datumTijd),  CASE WHEN TIME(D.datumTijd) BETWEEN '05:00:01' AND '12:00:00' THEN Morning  WHEN TIME(D.datumTijd) BETWEEN '12:00:01' AND '18:00:00' THEN Afternoon  WHEN TIME(D.datumTijd) BETWEEN '18:00:01' AND '24:00:00' THEN Evening  WHEN TIME(D.datumTijd) BETWEEN '00:00:01' AND '05:00:00' THEN Night  END  as time\_of\_service from air\_flight) |
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|  | **10.** 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.  **Solution:**  **Select from\_location, count(flight\_id) no\_of\_flights from air\_flight group by from\_location order by from\_location;** |