**ADVANCED SQL REPORTS**

**Harleen’s Tables:**

**1. BOOKINGS,**

**2. CATERINGS,**

**3. PAYMENTS,**

**4. FEEDBACK**

1. --CHECKING THE INFO OF THE CUSTOMER WHO RECENTLY BOOKED A FLIGHT AND THE FIRST CUSTOMER IN THE DATABASE

SELECT \*

FROM bookings

WHERE BOOKINGDATE = (SELECT MAX(BOOKINGDATE) FROM BOOKINGS) OR BOOKINGDATE = (SELECT MIN(BOOKINGDATE) FROM BOOKINGS);

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1. --CHECKING THE AVERAGE BOOKING SIZE OF THE WEBSITE ,LOWEST AND THE HIGHEST

SELECT AVG(PAYMENTAMOUNT) AS AVGBOOKING, MAX(PAYMENTAMOUNT) AS HIGHESTBOOKING, MIN(PAYMENTAMOUNT) AS LOWESTBOOKING

FROM PAYMENTS;

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1. SHOWING TOTAL NUMBER OF CATERIINGS PER CATERINGTYPE

SELECT cateringtype ,COUNT(CATERINGID) NOOFCATERING

FROM catering

GROUP BY cateringtype;

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1. --SHOW ALL THE INFO OF COMPANIES WHICH IS OWNED BY DRINKMASTER

SELECT \*

FROM CATERING

WHERE UPPER(parentcompany) = 'DRINK MASTER'

ORDER BY cateringid;

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1. --SELECTING ALL FLIGHT SERVICE WHICH HAS A NEGATIVE FEEDBACK FROM CUSTOMERS

SELECT \*

FROM feedback

WHERE UPPER(feedbacktype) = 'BAD'

ORDER BY FLIGHTID;

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1. --LIST OF CUSTOMERS WHO HAVE PAID MORE THAN AVERAGE FOR A BOOKING

SELECT CUSTOMERID

FROM payments

WHERE paymentamount > (SELECT AVG(PAYMENTAMOUNT) FROM PAYMENTS );

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1. SELECT FEEDBACKID

FROM feedback

WHERE feedbackid > (SELECT FEEDBACKID FROM FEEDBACK WHERE FLIGHTID =706)

GROUP BY FEEDBACKID;

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1. --DISPLAYING ALL THE CUSTOMER NO IN BOOKING AND PAYMENTS WITHOUT DUPLICATE .

SELECT CUSTOMERID

FROM BOOKINGS

UNION

SELECT CUSTOMERID

FROM PAYMENTS;

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**Sama’s Tables:**

**1. FLIGHTS**

**2. AIRCRAFTS**

**3. AIRPORT**

**4. FREQFLYER**

1. SELECTING THE MAX NUMBER OF SEATS MANUFACTURED BY ANY COMPANY BUILDING AN AIRCRAFT

SELECT MANUFACTURER, max(TOTALSEATS) as MAXCAPACITY

FROM AIRCRAFTS

GROUP BY manufacturer

ORDER BY manufacturer;

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1. DISPLAY ALL THE DETAILS FOR MANUFACTURED AIRCRAFT WHO ARE MANUFACTURED BEFORE Airbus A350 AND SHOWN THEM IN DECENDING ORDER OF MANUFACURE

SELECT \*

FROM aircrafts

WHERE YEAROFMANUFACTURE < (SELECT YEAROFMANUFACTURE FROM AIRCRAFTS WHERE aircrafttype ='Airbus A350')

ORDER BY aircrafts.yearofmanufacture DESC;

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1. DISPLAY ALL THE FLIGHTIDS WHOSE ARRIVAL TERMINAL IS GREATER THAN OR EQUAL TO THAT OF FLIGHT 703

SELECT FLIGHTID

FROM FLIGHTS

WHERE FLIGHTID >= (SELECT FLIGHTID FROM FLIGHTS WHERE FLIGHTID=703)

ORDER BY FLIGHTID;

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1. DISPLAY ALL THE FLIGHTS WHO HAVE ARRIVED BEFORE FLIGHT 709 IN A ASCENDING ORDER

SELECT \*

FROM FLIGHTS

WHERE arrivaltime < (SELECT ARRIVALTIME FROM FLIGHTS WHERE FLIGHTID = 709)

ORDER BY ARRIVALTIME;

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1. SELECTING COUNTRY HAVING MORE THAN ONE AIRPORT

SELECT COUNTRY,COUNT(airportid) AS TOTALNUMBEROFAIRPORTS

FROM AIRPORT

GROUP BY country

HAVING COUNT(AIRPORTID) > 1;

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1. SELECTING AVERAGE POINTS IN EACH CATEGORY IN FREQUENCY FLYER

SELECT STATUS,ROUND(AVG(POINTS),2) AS AVERAGEPOINTS

FROM freqflyer

GROUP BY STATUS;

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1. SELECTING THE CUSTOMER WHO HAVE POINTS MORE THAN AVG OF THE WHOLE

SELECT CUSTOMERID , POINTS,STATUS

FROM freqflyer

WHERE points > (SELECT AVG(POINTS) FROM FREQFLYER )

ORDER BY CUSTOMERID;

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1. DISPLAY THE AIRPORT ID WHERE THE LATITUDE IS MAXIMUM

SELECT AIRPORTID AS HIGHESTAIRPORT,AIRPORTNAME

FROM AIRPORT

WHERE LATITUDE = (SELECT MAX(LATITUDE) FROM AIRPORT );

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1. LIST THE CUSTOMER WHO ARE NOT IN FREQUENT FLYER

SELECT CUSTOMERID

FROM customers

MINUS

SELECT customerid

FROM freqflyer;

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1. DISPLAY ALL THE CUSTOMERS AND THEIR POINTS COLLECTED IF THE CUSTOMER DOSENT HAVE ANY POINT DISPLAY 0

SELECT CUSTOMERID ,POINTS AS POINTS

FROM freqflyer

UNION

SELECT CUSTOMERID , 0 AS POINTS

FROM CUSTOMERS

ORDER BY CUSTOMERID;

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**Urman’s Tables:**

**1. COMPANY**

**2. PILOTS**

**3. PORTS**

**4. CUSTOMER**

**5. CREW**

1. DISPLAY ALL THE COMPANY NAMES WHO HAVE ID BETWEEN 305-309 EXCLUDING BOTH

SELECT COMPANYNAME

FROM COMPANIES

WHERE COMPANYID > (SELECT COMPANYID FROM COMPANIES WHERE companyid=305) AND

COMPANYID < (SELECT COMPANYID FROM COMPANIES WHERE companyid=309);

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1. DISPLAY ALL THE DETAILS OF THE COMPANY WHICH IS FIRST IN THE LIST ALPHABETICALLY

SELECT \*

FROM COMPANIES

WHERE COMPANYNAME =( SELECT MIN(COMPANYNAME) FROM COMPANIES);

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1. DISPLAY ALL COUNT OF ALL THE PORTS IN THE DATABASE WHOSE PORTCODE IS LESS THAN 1006

SELECT COUNT(PORTID) AS COUNTOFPORT

FROM PORT

WHERE portcode <( SELECT PORTCODE FROM PORT WHERE PORTCODE = 1006);

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1. DISPLAY ALL THE PORTID WHO ARE NOT IN FLIGHT

SELECT PORTID

FROM PORT

MINUS

SELECT PORTID

FROM FLIGHTS;

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\*\*there are no ports which are not in the flights table, all the ports are used, so no inactive port.

1. DISPLAYING THE AVERAGE NUMBER OF FLIGHTS FOR A PILOT

SELECT AVG(TOTALFLIGHTS) AS AVGFLYINGHOURS

FROM PILOTS;

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1. SELECT THE PILOTS WHOSE TOTAL FLIGHT FALL UNDER AVERAGE OF THE WHOLE

SELECT PILOTID

FROM PILOTS

WHERE TOTALFLIGHTS < (SELECT AVG(TOTALFLIGHTS) FROM PILOTS);

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1. DISPLAY THE CUSTOMERS WHO LIVE HAS HIGHEST CUSTOMERID

SELECT MAX(CUSTOMERID) AS MAXCUSTOMERID

FROM CUSTOMERS;

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1. COUNT THR NUMBER OF CUSTOMER WHOSE ID IS MORE THAN THAT OF AVERAGE OF ALL

SELECT COUNT(CUSTOMERID) AS COUNTOFID

FROM customers

WHERE customerid > (SELECT AVG(CUSTOMERID) FROM CUSTOMERS );

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1. SELECT FLIGHT DETAILS WHICH WAS OPERATED BY PILOT ID 512,509 AND 515

SELECT \*

FROM FLIGHTS

WHERE PILOTID = (SELECT PILOTID FROM PILOTS WHERE PILOTID =512)

OR PILOTID = (SELECT PILOTID FROM PILOTS WHERE PILOTID =509)

OR PILOTID = (SELECT PILOTID FROM PILOTS WHERE PILOTID =515);

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1. SELECT PILOTS WHO IS MOST EXPERIENCED IN THE DATABASE

SELECT PILOTID,FIRSTNAME || LASTNAME AS PILOTFULLNAME,TOTALFLIGHTS

FROM PILOTS

WHERE TOTALFLIGHTS = (SELECT MAX(TOTALFLIGHTS) FROM PILOTS );

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1. DISPLAY PILOT INFO OF THE FLIGHTS WHICH ARE DELAYED OR CANCELLED

SELECT PILOTID

FROM FLIGHTS

WHERE UPPER(FLIGHTSTATUS) = 'DELAYED' OR UPPER(FLIGHTSTATUS) = 'CANCELLED'

GROUP BY PILOTID

ORDER BY PILOTID;

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1. DISPLAY ALL THE CREWMEMBERS IN CREW AS WELL AS FLIGHTS INCLUDING ALL THE DUPLICATES

SELECT CREWID,flightattendant1 || ',' || flightattendant2 || ',' ||flightattendant3 AS CREWMEMBERS

FROM CREW

UNION ALL

SELECT CREWID, TO\_CHAR(NULL)

FROM flights

GROUP BY CREWID

ORDER BY CREWID;A screenshot of a computer

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1. DISPLAY THE CREW ID WHICH HAS HIGHEST PILOTID

SELECT CREWID

FROM CREW

WHERE pilotid = (SELECT MAX(PILOTID) FROM CREW)

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