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20BAI1154

DBMS LAB ASSESSMENT

1. Create the tables using DDL instructions, include appropriate primary and foreign key constraints. Insert the necessary sample data given.

```
SQL> CREATE TABLE TECHNICIAN_20BAI1154(

2 Technician_id INT PRIMARY KEY,

3 First_Name VARCHAR2(30),

4 Last_Name VARCHAR2(20),

5 City VARCHAR2(20);

Table created.

SQL> CREATE TABLE CUSTOMER_20BAI1154(

2 Cust_id INT PRIMARY KEY,

3 Cust_Fname VARCHAR2(30),

4 Cust_Iname VARCHAR2(30),

5 FirstTime_issue VARCHAR2(10),

6 Technician_id INT,

7 FOREIGN KEY(Technician_id) REFERENCES TECHNICIAN_20BAI1154(Technician_id));

Table created.
```

```
SQL> CREATE TABLE APPOINTMENT_20BAI1154(

2 Appointment_id INT PRIMARY KEY,

3 Cust_id INT,

4 Technician_id INT,

5 Appointment_date DATE,

6 Appt_time_hrs VARCHAR2(30),

7 Feedback VARCHAR2(20),

8 FOREIGN KEY(Cust_id) REFERENCES CUSTOMER_20BAI1154(Cust_id),

9 FOREIGN KEY(Technician_id) REFERENCES TECHNICIAN_20BAI1154(Technician_id));

Table created.

SQL>
```

```
SQL> INSERT ALL
2 INTO TECHNICIAN_20BAI1154 VALUES(101,'Siva','Kumar','Chennai','Plumber')
3 INTO TECHNICIAN_20BAI1154 VALUES(102,'Kiran','Sharma','Delhi','Electrician')
4 INTO TECHNICIAN_20BAI1154 VALUES(103,'Ravi','Trivedi','Lucknow','Welder')
5 INTO TECHNICIAN_20BAI1154 VALUES(104,'Krishna','Rao','Hyderabad','Electrician')
6 SELECT * FROM DUAL;

4 rows created.

SQL> INSERT ALL
2 INTO CUSTOMER_20BAI1154 VALUES(501,'Sita','Devi','Yes',101)
3 INTO CUSTOMER_20BAI1154 VALUES(502,'Dinesh','Kumar','No',101)
4 INTO CUSTOMER_20BAI1154 VALUES(503,'Sham','Kumar','Yes',102)
5 INTO CUSTOMER_20BAI1154 VALUES(504,'Ravi','Kiran','No',103)
6 SELECT * FROM DUAL;

4 rows created.
```

```
SQL> INSERT ALL

2 INTO APPOINTMENT_20BAI1154 VALUES(1001,501,101,'15-MAY-2021','09:00','Nice')

3 INTO APPOINTMENT_20BAI1154 VALUES(1002,502,101,'16-JUN-2021','13:00','Nice')

4 INTO APPOINTMENT_20BAI1154 VALUES(1003,503,102,'17-JUN-2021','15:00','Avg')

5 INTO APPOINTMENT_20BAI1154 VALUES(1004,504,103,'18-JUN-2021','17:00','Poor')

6 SELECT * FROM DUAL;

4 rows created.

SQL>
```

2. Display the Technician First Name and job of those who attended to first time issues reported by customers.

3. Display the appointment id and customer names of those who had taken appointment for plumbing work.

Syntax:-

SELECT

APPOINTMENT_20BAI1154.Appointment_id,CUSTOMER_20BAI1154.Cust_FName,CUSTOMER_20BAI1154.Cust_Lname FROM

APPOINTMENT_20BAI1154,CUSTOMER_20BAI1154,TECHNICIAN_20BAI1154 WHERE CUSTOMER_20BAI1154.Cust_id IN (SELECT CUSTOMER_20BAI1154.Cust_id FROM CUSTOMER_20BAI1154 WHERE CUSTOMER_20BAI1154.TECHNICIAN_ID = (SELECT TECHNICIAN_ID FROM TECHNICIAN_20BAI1154 WHERE TECHNICIAN_20BAI1154.JOB='PLUMBER'));

```
SQL'S SELECT APPOINTMENT_20BA11154.Appointment_id_CUSTOMER_20BA11154.Cust_Phame_CUSTOMER_20BA11154.Cust_id_IN
(SELECT CUSTOMER_20BA11154.Cust_id_FROM CUSTOMER_20BA11154 WHERE CUSTOMER_20BA11154.TECHNICIAN_ID = (SELECT TECHNICIAN_ID FROM TECHNICIAN_20BA11154 WHERE TECHNICIAN_20BA11154.D08-'PLUMBER'));
no rous selected
SQL'S
```

4. Display the appointment id and customer name of customers who have given a feedback as 'Nice'.

```
SQL) SELECT APPOINTHENT_200A11154.Appointment_id, CUSTOMER_200BA11154.Cust_iname, CUSTOMER_200BA11154.Cust_iname from CUSTOMER_200BA11154.INDER_200BA11154.Out_iname_200BA11154.Feedback='Nice' AND APPOINTMENT_200BA11154.Cust_id in (SELECT APPOINTMENT_200BA11154.Cust_id from APPOINTMENT_200BA11154 NHERE APPOINTMENT_200BA11154.Feedback='Nice');

APPOINTMENT_ID CUST_FMANNE CUST_LIAMNE

1001 Sita Devi
1001 Dinesh Kumar
```

5. Create a view to find the technician id and first name of technicians who are electricians.

```
SQL> Create or replace View Electricians

2 As

3 Select Technician_id,First_Name,Last_Name

4 From Technician_20BAI1154

5 Where Job='Electrician';

View created.
```

```
SQL> SELECT * FROM Electricians;

TECHNICIAN_ID FIRST_NAME LAST_NAME

102 Kiran Sharma
104 Krishna Rao

SQL>
```

create or replace Function count_nnn
Return number is
num number;
Begin
select count(APPOINTMENT_ID) into num from appointment_20bai1154 where Appt_time_hrs IS NOT '09:00';
Return num;
End;
/
Declare
total number;
Begin
total:=count_nnn();
DBMS_Output.put_Line('The total count of appointments are' total);
End;
/

6. Write a procedure to display the count of appointments made after 12PM in the month of June.

Also write the block of code to call the procedure.