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Id 14282

Subject database

Q1: Perform Normalization upto 3 rd Normal Form on the following table.

Ans :

1N

(Student_id,student name,student address,course _ ID,Course_Name,grade)

2N

Q2: Write SQL queries for the following DDL Statements

1. Write a query to create a table by the name Students which should have the following columns and restrictions: (Marks 10)

ANS ;

```
CREATE TABLE Students (  
ID INT (5)NOT NULL PRIMARY KEY AUTO_INCREMENT,  
Students_name VARCHAR(50) NOT NULL,  
DOB DATE,  
Age int(3),  
CGPA float(5)  
);  
INSERT INTO Students (ID,Students_name,DOB,Age,CGPA)  
VALUES('14282','Suliman khan','12-04-1989','30','2.3');
```

2. Write 2 SQL DML Queries to insert your data and your friend's data in this Table.

Ans :

```
INSERT INTO Students (ID,Students_name,DOB,Age,CGPA)
```

```
VALUES('14282','Suliman khan','12-04-1989','30','2.3');
```

```
INSERT INTO Students (ID,Students_name,DOB,Age,CGPA) VALUES ('14283',  
'Ali', '12-02-1990','30','2.9');
```

3. Which of the given attributes is a derived attribute and from which attribute it can be derived?

Ans :

(a)students entity type with simple attributes

students ID

students name

students DOB

students Age

students CGPA

(b)students relation

Students id,student name,students dob,students age,students cgpa

Q3: Consider you have the following 2 tables.

1. Write SQL Query for finding/displaying product names and ids of products whose unit price is less than 50 Rs.

Ans :

```
SELECT * FROM Canteen_Table WHERE units price < 50;
```

2.

Write SQL Query for displaying sorted names of product names with Alias name as Product_List_Sorted.

Ans :

```
SELECT c.product_ID, c.product_Name,  
c.Category,c.Mfg_date,c.Exp_date,c.Unit price,p.product_name  
FROM product_name AS p, Orders AS c  
WHERE c.product_Name AND p.Product_ID=c.product_ID;
```

3. Delete data from Order_Details whose quantity is less than 1.

Ans :

```
DELETE FROM Order_Details WHERE Quantity < 1;
```

4. Write SQL INNER JOIN query and its output on the given two tables. (5 marks)

Ans :

```
SELECT t1.product_id, t1.product_name, t1.Category,  
t1.Mfg_date,t1.Exp_date,t1.units price  
t2.product_id FROM Canteen_Table AS t1 INNER JOIN  
Order_Details AS t2 ON t1.product_id = t2.product_id  
ORDER BY product_id;
```