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CLID = 14582

BS(SE) Section (A)

Subject = Data Base

Submitted to = Maam Rimsha

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Final Assignment -

Majid Khan CK

14582 (1)

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

St id	St name	St addr	Cour id	Cour name	Grade
01	Fawad	kar	SE-01 SE-05	AI SCE	A B
02	Waleed	ISI	SE-02	DIP	C
03	Saira	Lahore	SE-03 SE-04	DB SRE	A B
04	Aiman	Quetta	SE-03	DB	C
05	Daniyal	Pes	SE-01	AI	A
06	Emaan	ISI	SE-01	AI	B

2 Normalization form

Std Table

Course Table

Std id	Std name	Std addr	Cour ID	Cour Name
01	Fawad	kar	SE 01	AI
02	waleed	ISI	SE 02	DIP
03	Saira	Lahore	SE 03	DB
04	Aiman	Quetta	SE 04	SRE
05	Daniyal	Pes	SE 05	SCE
06	Emaan	ISI	SE 06	AI

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(2)

Grade

St ID	Course ID	Grade
01	SE-01	A
02	SE-05	B
02	SE-02	C
04	SE-03	A
05	SE-04	B
06	SE-01	C

3 Normalization form

Std Table

Course Table

St ID	St Name	Std add	Course ID	Course Name

Grade Table

Exam Table

St ID	Course ID	Grade	Exam name	Table marks

Now it will fully convert into 3rd normalization form

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Question - 09:

(1) Create a Database by the name Gallery.

Answer: (1)

Create a DATABASE Gallery;

(2) Write a query to create by the name Movies which should have the following columns and restrictions?

Answer (2)

Create a TABLE Movies (

ID integer (2) NOT NULL,

Movie - Name varchar (15) NOT NULL,

Genre varchar (10),

Year integer (18),

Rating integer (5),

PRIMARY KEY (ID);

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Q3: IF you have the following table:

Student ID	Student Name	Age	CGPA

(1) Write 2 SQL DML Queries to insert your data and your friend's data in this table.

(2) Write SQL DML Query to delete all student's record whose CGPA is greater 3?

Ans (3):

Solution: We will give the name to table students table:

Insert keyword is always followed by ~~into~~^{INTO} keyword thus our INSERT statement starts with insert - INTO - followed by the table name (student) in which you insert the row and then we have our list of columns enclosed in parenthesis after we have our keywords values followed by values of columns which you want to insert enclosed in parenthesis.

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Inserting Data

Query (1) - Insert DATA into all the columns of student table -

```
INSERT INTO student (Student ID,  
Student name, Age, CGPA)  
values (14582, Mujahid Khan, 21, 3.2);  
INSERT INTO student (Student ID,  
Student name, Age, CGPA).  
values (14598, Zeeshan Alam, 22, 2.9);
```

Query (2) - Insert DATA into Selected Columns

```
INSERT INTO student (Student ID,  
Student name, Age, CGPA)  
values (14481, Alam Zeb, 20);
```

Part (B)

Students Table name -

St ID	St name	Age	CGPA
14582	Mujahid Khan	21	3.2
14598	Zeeshan Alam	22	2.9
14481	Alam Zeb	20	3.4

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Sol > DELETE FROM table
[WHERE conditions];

DELETE FROM student
WHERE CGPA = 3.4;

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Q4: Consider you have the following 2 tables:

Canteen tables

Prod id	Pro name	catgy	Mfg date	Exp date	unit price
01	Dairy Milk chocolate	Junk	2 Aug 20	2 Aug 20	80 Rs
02	Lipton Tea	not junk	2 Aug 20	2 Jan 20	150 Rs
03	Lays	Junk	5 April 20	2 April 20	30 Rs
04	skorona	junk	3 Aug 20	3 Jan 21	35 Rs
05	chilli Maki	Junk	2 Jan 18	5 April 20	10 Rs
06	aper pilles	not junk	3 April 18	5 April 19	350 Rs

Order Details

order id	Pro id	unit price	quantity
01	02	150 Rs	1
01	06	350 Rs	1
02	01	80 Rs	2
03	03	30 Rs	2
02	05	10 Rs	1

Answer (1) →

```
SELECT product - ID,  
Product - Name FROM Canteen - Table  
WHERE unit - price < 50,  
ORDER BY unit - price DESC  
Product - ID, Product - Name;
```


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(2) →

```
SELECT Product - Name AS  
Product - List, sorted FROM  
Canteen - Table Group By  
unit price ORDER By unit-price  
DESC;
```

(3) Write output of the following
query.

Category	my count
Junkle	4
Not Junkle	2

(4) INNER JOIN SQL Query

```
SELECT Canteen - Table - Product  
- ID, Product - name, unit-price FROM  
Canteen - Table - Product - ID = order -  
Details - product - ID -
```

out put -

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Prod ID	Prod name	std-ID	unit price	Q
02	Lipton tea	01	160	
06	spess milk	01	350	
01	Berry milk choc	02	80	
03	lays	02	30	
05	chilli milk	02	5	

Good luck