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Name :- M. Junaid

ID :- 14608

Subject :- Data Base

BS(SE) section 'A'

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Question No - 01

Perform Normalization 3rd Normal Form
on the following table.

Student ID	Student Name	Student Address	Course ID	Course Name	Grade
01	Fawad	Karachi	SE-01	A1	A
			SE-05	SBE	B
02	Waleed	Lahore	SE-02	DIP	C
03	Saika	Peshawar	SE-03	DB	A
			SE-04	SPE	B
04	Airna	Karachi	SE-03	DB	C
05	Danijal	Lahore	SE-01	A1	A
06	Emaan	Peshawar	SE-01	A1	B

ANSWER:-

As the above table is already in the 2nd normalization. So we'll divide this table into 2 parts to convert it into 3rd normalization.

Part (1)

Student ID	Student Name	St Address	Grade
01	Fawad	Karachi	$\frac{A}{B}$
02	Waleed	Lahore	C
03	Saika	Peshawar	$\frac{A}{B}$
04	Airna	Karachi	C
05	Danijal	Lahore	A
06	Emaan	Peshawar	B

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Part (ii)

Course id	Course Name
SE - 01	AI
SE - 05	SQE
SE - 02	DIP
SE - 03	DB
SE - 04	SRE
SE - 03	DB
SE - 01	AI
SE - 01	AI

Thus now it fulfil the condition to be in 3rd form.

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Question No. 02

Part 2.

write a query to
create a table by name movies
which should have the
following columns and
restrictions:

Answer:

create table movies.

{

id int not null, primary key,
movie_name varchar (25) not null

Genre varchar (25),

year int ;

rating int ;

}

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Q2: write SQL queries for following DDL statements.

(1) Create a Database by the name Gallery.

The query we use:

```
create database Gallery.
```

```
{
```

```
}
```

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Question NO: 03

if you have the following table.

student ID	student Name	Age	CGPA

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

Solution:-

We will give the name to table:

Insert keyword is always followed by INTO keywords thus or INSERT statement.

Start with Insert INTO - followed by the table name (Student) in which you insert the row and then we have our list of column enclosed in personthesis there. For we have any keywords values followed by values of column which you want to insert enclosed in parenthesis.

Inserting data
DESC students:-

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Query 1:-

Insert Data into all
the columns of student table

Insert INTO.

student (student ID,
student name, Age (GPA))

Values (14608) M. Junaid, 21, 251);

INSERT INTO student:

Values (14608, IJAZ Ahmael, 22,
34,)

Query 2:-

Insert Data into selected
Columns.

Insert INTO student

(student ID, name Age

values (14609, IJAZ Ahmael, 22)

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(2) Write SQL DML Query to delete all students' records whose CGPA is Greater 3.

Student: ~~ID~~ table name.

Student ID	Student Name	Age	CGPA
14608	M. Junaid	21	2.6
14609	IJAZ Ahmad	22	3.4
14611	ADNAN Nabi	20	3.

Solution. Delete From table
{WHERE

Delete FROM Student
Where CGPA = 3

Question NO. 04:-

Canteen table:-

Product ID	Product Name	category	Mfg Date	Exp Date	unit Price
01	Daisy milk	Junk	2 Aug 2020	2 Aug 2020	80 RS
02	Chocolate	Not Junk	2-Jan-19	2-Jan-20	160
03	Lipton tea-bags	Junk	2-Apr-2019	2-Apr-20	30
04	KulKule	Junk	3-Aug-19	3-Aug-20	30
05	Shezan Juice	Junk	3-Jan-19	3-Jan-20	5
06	chari mittijesty	Not Junk	3-Apr-19	3-Apr-19	350 RS

Order - Details.

order ID	Product ID	unit Price	Quantity
01	02	160 RS	1
01	06	350 RS	1
02	01	30 RS	2
02	03	30 RS	2
02	05	5 RS	2

Ans Part (1)

Solution.

Select - product name, product ID
 From Canteen table
 where product price < 50 RS
 ordered by product ID,

Product Name.

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(Part) 2.

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Order ID	Pl Name	Categories	Mfg Dt	Exp	Price
05	Chilli Millijefy	Junk	3-Jan-18	3yr	5
03	KulKule	Junk	2-Nov-17		30
04	Shezan juice	Junk	3-Apr-18		30
01	Delymik juice	Junk			80
02	Lipton tea bags	not junk			160
06	olpels milk	not junk			350

Part 3:

write out put the following query!

⇒ select Category Count category?

select (count (category))
from orders - table
where category.

Category
Junk
Not Junk
Junk
Junk
Junk
Not Junk

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→ From Canteen table - ?
select Canteen - table
from Canteen - table.

→ group By Category.
select category (category)
from Canteen - table
where name By ID

→ Having Count Category :- > 1

→ This is used to filter the
group returned.

→ select Category (category)
group by Ps ID :

Having Category > 1 :

Q4, Part 4:

select product ID from
Canteen - table

INNER JOIN Order - Details ON
Canteen table product - ID =

Order - Details - product ID.