

NAME :- MUHAMMAD

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ID NO. 15038.

Semester :- BS (SE) 4th.

Question # 1:

Perform Normalization upto 3rd Normal form?

Answer:

1st NF

Std ID	Std Name	Std Address	Course-ID	Course-name	Grade
01	Fawad	Karachi	SE-01 SE-05	AI SDE	A B
02	Waleed	Lahore	SE-02	DIP	C
03	Saira	Peshawar	SE-03 SE-04	DB SRE	A B
04	Aiman	Karachi	SE-03	DB	C
05	Daniyal	Lahore	SE-01	AI	A
06	Eman	Peshawar	SE-01	AI	B

2nd NF
= =

Std Id	Std name	Address	course Id	course name	Grade
01	Fawad	Karachi	SE-01	AI	A
			SE-05	SRE	B
02	Waleed	Lahore	SE-02	DIP	C
03	Saira	Peshawar	SE-03	DB	A
			SE-04	SRE	B
04	Aimen	Karachi	SE-03	DB	C
05	Daniyal	Lahore	SE-01	AI	A
06	Eman	Peshawar	SE-01	AI	B

Std Id	student name	Address
01	Fawad	Karachi
02	Waleed	Lahore
03	Saira	Peshawar
04	Aimen	Karachi
05	Daniyal	Lahore
06	Eman	Peshawar

(2)

stdt ID	student name
1	SE-1
1	SE-5
2	SE-2
3	SE-3
3	SE-4
4	SE-3
5	SE-1
6	SE-1

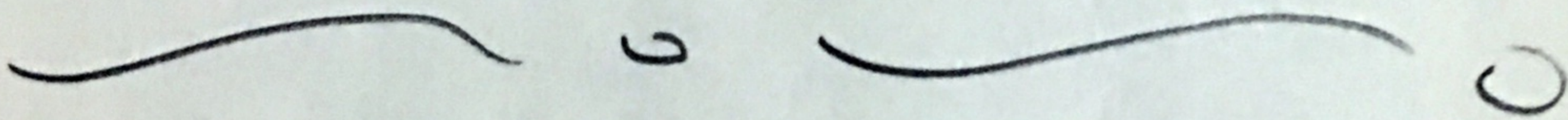
3rd = NF :-

Std ID	student name	Address	course ID
01	Fawad	Karachi	SE-1
			SE-5
02	Waleed	Lahore	SE-2
03	Saira	Peshawar	SE-3
			SE-4
04	Aimen	Karachi	SE-3
05	Narigal	Lahore	SE-1
06	Eman	Peshawar	SE-1

(3)

Student Id	Course ID
01	SE-1
	SE-5
02	SE-2
03	SE-3
	SE-4
04	SE-3
05	SE-1
06	SE-1

(4)



Question # 22.

Write SQL queries for following DDL statements:

1) Create a Data base by name Gallery.

The query we use:

```
Create data base Gallery
{
}
```

2) Write a query to create a table - ...

... following columns & restrictions.

```
create table Movies (5)
{
  Id int not null, primary key,
  Movie - Name varchar (25) not null,
  Genre varchar (25);
  Year int;
  rating int;
}
```

Question # 3

If you have the following table:

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

Answer:

We will give the name to table student table:-

DESC student;

Query 1 - - Insert data into all the columns of student table.

(6)

```
INSERT INTO student (student id, student name, Age, CGPA)
values (15038, Muhammad USMAN, 22, 3.69);
```

```
INSERT INTO student
```

```
values (15438, Ali, 21, 3.24);
```

Query 2 INSERT DATA into selected columns

```
INSERT INTO student (std Id, std name,
Age, CGPA)
```

values (14468, Ahmad, 22, 3);

2) Write SQL DML Query to delete all student record whose CGPA is greater 3;

Std Id	Std name	Age	CGPA.
15038	Muhammed USMAN	22	3.69
15438	Ali	21	3.24
14468	Ahmad	22	3

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Answer:

DELETE FROM TABLE

[where conditions];

DELETE FROM student

where CGPA = 3;

Question no 4 :-

Consider you have the following 2 tables..

Answer:-

1) write SQL query for finding - - - - -
- - - - - less than 50 Rs.

```
Select product_names, product ID
from canteen-table, order-details
where unit-price < 50
order by product_names DESC,
product ID;
```

Output at the Query

product_name	product-ID
kurkure	03
shezan juice	04
Chilly milky jelly	05

03 } order-
05 }

Question 4 part 22.

write SQL Query for displaying sorted names with Alias name as product-list-sorted.

Answer:

```
select product-names  
from canteen-table  
order by product-names Asc;
```

Product ID	Product name	category	Mfg date	Exp date	Price.
05	chilly milky Jelly	Junk	2-Aug-2019	2-Aug-2020	5Rs
03	kurkure	Junk	2-Jan-2019	2-Jan-2020	30Rs
04	Shezan Juice	Junk	2-April-2019	2-April-2020	30Rs
01	Dairy milk Chocolate	Junk	3-Aug-2019	2-Aug-2020	80Rs
02	Lipton tea bags	not junk	3-Jan-2018	3-Jan-2020	160Rs
06	Open milk	not junk	3-April-2018	3-April-2020	360Rs

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Question no 4 part 3:-

write output of the following query?

Answer:-

category	count
Junk	4
Not Junk	2

Part 4:-

write SQL Inner join query and its output on the given two tables.

Answer:- select order - details, order, canteen - table, Product - name, order - details, unit - price, order - details - quantity,

From order - Detail INNER JOIN canteen - table
on order . Details . Product - ID = canteen - table
Product - ID .

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Output:

order-ID	Product name	unit price	Quantity.
01	Lipton tea bags	160 Rs	1
01	Olper's milk	350 Rs	1
02	Dairy milk chocolate	80 Rs	2
02	kurkure	30 Rs	2
02	Quilly milky Jelly.	5Rs	2

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