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Subject DBMS

Department BSSE

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①  
15089

Question no 1.

Answer :-

→ We need to convert this table to first normal form.

STD	Name	Address	Course ID	Course Name	Grade
1	Fawad	Karachi	SE-01 SE-05	AI SQE	A B
2	Wahid	Lahore	SE-02 SE-03	PIP DB	C A
3	Saiza	Peshawar	SE-04 SE-06	SRE DB	B A
4	Ammar	Karachi	SE-07	DB	C
5	Danyal	Lahore	SE-01	AI	A
6	Imaan	Peshawar	SE-01	AI	B

First Normal Form:

STD	Name	Address	Course ID	Course Name	Grades
01	Fawad	Karachi	SE-01	AI	A
02	Fawad	Karachi	SE-05	SQE	B
03	Wahid	Lahore	SE-02	PIP	C
03	Saiza	Peshawar	SE-03	DB	A
03	Saiza	Peshawar	SE-04	SRE	B
04	Ammar	Karachi	SE-07	DB	C
05	Danyal	Lahore	SE-01	AI	A
06	Imaan	Peshawar	SE-01	AI	B



2

15089

2nd Normal Form :-

Student			Course		
std ID	Name	Address	Course ID	Course Name	Grade
01	Fawad	Karachi	SE-01	AL	A
01	Fawad	Karachi	SE-05	SQE	B
02	Waleed	Lahore	SE-02	DIP	C
03	Saira	Peshawer	SE-03	DB	A
03	"	"	"	"	"
04	Aiman	Karachi	SE-04	SRE	B
05	Danyal	Lahore	SE-03	DB	C
06	Ernaam	Peshawer	SE01	AI	A
03	Saira	Peshawer	SE-01	AI	B

3rd Normal Form :-

Primary key

std ID	Student Name	Student Address	std course ID	Course Name	Grade
01	Fawad	Karachi	SE-01	AL	A
02	Waleed	Lahore	SE-02	DIP	C
03	Saira	Peshawer	SE-03	DB	A
04	Aiman	Karachi	SE-03	SRE	C
05	Danyal	Lahore	SE-01	AL	A
06	Ernaam	Peshawer	SE-01	AL	B

Foreign key

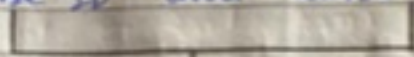
std	Student Name
7	Fawad
8	Saira

3

15089

→ NO transitive Dependencies  
in 3rd Normal Form-

Course ID and Course Name



transitive Dependencies.

Primary Key

Student ID	Student Name	Address	Grades
01	Fawad	Karachi	A
02	Waleed	Lahore	C
03	Saiza	Peshawar	A
04	Ahman	Karachi	C
05	Danyal	Lahore	A
06	Emaan	Peshawar	B

Foreign Key

Student ID	Student Name
7	Fawad
8	Saiza

Transitive Key

Course ID	Course Name	Grade
SE-1	AL	A
SE-2	DIP	C
SE-3	DB	A

③ ④

15089

Question # 2

Answer:-

- 1) Create a database by the name gallery.

```
create database gallery;
```

- 2) Create table (  
ID int primary key,  
Movies-name varchar(26),  
Genre int,  
Rating

```
)  
create table movie-
```

```
(  
ID int primary key,  
Movies-name varchar(26),  
Genre varchar(26),  
Years INT,  
Rating INT  
)
```

```
create database Gallery]
0%
Messages
Command(s) completed successfully.
0%
```

Q2



```
create table Movie
(
  ID int PRIMARY KEY,
  Movies_name varchar(26),
  Genre varchar(26),
  YEARS INT,
  Rating int
)
```

Q 2

100 %

Messages

Command(s) completed successfully.

5

15089

Question # 3

Answer:-

- 1)
- Put Data in the table which you want to insert.
  - Common, separate list of columns in the table surrounded by parenthesis.
  - Give values.  
Insert values to table.

insert into friend  
(ID, name, age, GPA)

value (1, Bilal, 20, 3.7)

value (2, Farooq, 25, 3.0)

)

Table of inserting values

STD	Name	Age	Grades
1	Bilal	20	3.7
2	Farooq	25	3.0

- 2) Deleting records  $CGPA > 3$   
Consider the table

STD	Name	Age	Grades
1	Bilal	20	3.7
2	Farooq	25	3



② ⑥

15089

→ In this table we required  
to Delete Data which is  
CGPA > 3

Delete successful

STD	Name	Age	Grades
1	Farooq	25	3

(7)

15089

Question 4

Answer:-

(1) → Canteen table:-

Select product name, pro-Id  
from canteen table.  
Where product price is < 50 Rs  
ordered by product name & ID.

→ Ordered Detail:-

Select product ID, unit-Price  
from ordered detail.  
where unit price =  
Select Min(unit price)  
from ordered detail.

(2)

Product ID	Product Name	Category	MFG Date	Exp Date	Price
05	chilli milk Jelly	Junk	2 Aug 2019	2 Aug 2020	5 Rs
03	KurKure	Junk	2 Jan 2019	2 Jan 2020	30 Rs
04	Shezan Juice	Junk	2 April 2019	2 April 2020	30 Rs
01	Daisy Milk Chocolate	Junk	3 Aug 2019	2 Aug 2020	80 Rs
02	Lipton tea Bags	Not Junk	3 Jan 2018	3 Jan 2021	160 Rs
06	olport Milk	Not Junk	3 April 2018	3 April 2021	350 Rs

(8)

15089

3/

Category	Count (Category)
Junk	4
Not Junk	2

4/

order-id	Product name	unit price	Quantity
01	Lipton tea	160 Rs	1
01	alpers milk	350 Rs	1
02	Dairy milk	80 Rs	2
02	Kurkure	30 Rs	2
02	chilli milk Jelly	5 Rs	2

