

I begin with the name of Allah,
Who is Most kind, Most
Merciful.

Name: Mohammad Bilal

ID: 14956

Course: Database Systems

Instructor: Rimsha Khan

Program: BS(CS

Question :1

Answer

- Each table cell should contain a single value.
- Each record needs to be unique.

First Normal Form

Student_Id	Student Name	Student Address	Course_ID	Course Name	Grade
01	Fawad	Karachi	SE-01	AI	A
01	Fawad	Karachi	SE-05	SQL	B
03	Waleed	Lahore	SE-02	DIP	C
03	Saira	Peshawar	SE-03	DB	A
04	Saira	Peshawar	SE-04	SRE	B
05	Aiman	Karachi	SE-03	DB	C
06	Daniyal	Lahore	SE-01	AI	A
07	Emaan	Peshawar	SE-01	AI	B

Second Normal Form

Student Id	Student Name	Student Address
01	Fawad	Karachi
01	Fawad	Karachi
02	Waleed	Lahore
03	Saira	Peshawar
03	Saira	Peshawar
04	Aiman	Karachi
05	Daniyal	Lahore
06	Emaan	Peshawar

Course Detail Table

Course_ID	Course_Name	Grade
SE-01	AI	A
SE-05	SQL	B
SE-02	DIP	C

SE-03	DB	A
SE-04	SRE	B
SE-03	DB	C
SE-01	AI	A
SE-01	AI	B

3rd Normal form

Student Table

Student _id	Student Name	Student Address	Course Id
01	Fawad	Karachi	SE-01
01	Fawad	Karachi	SE-05
03	Waleed	Lahore	SE-02
03	Saira	Peshawar	SE-03
04	Saira	Peshawar	SE-04
05	Aiman	Karachi	SE-03
06	Daniyal	Lahore	SE-01

07	Emaan	Peshawar	SE-01
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Course_ID	Course_Name	Grade
SE-01	AI	A
SE-05	SQL	B
SE-02	DIP	C
SE-03	DB	A
SE-04	SRE	B
SE-03	DB	C
SE-01	AI	A
SE-01	AI	B

Question :2

Answer.1

Create DATABASE Gallery

Answer.2

Create table Movies

(

 ID int Not Null Primary key ,

 Name varchar (30) not null,

 Gener varchar (30)

 Year int max =2020

 Rating int max =5

)

Message: command (s) completed Successfully

Select *from Movies

Results

ID	Name	Gener	Year	Rating
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Question :3

Answer 1:

Create table Student_ Record

```
(  
    ID int not null primary key,  
    name varchar (20) ,  
    age int ,  
    cgpa float  
)
```

Insert into student value (14956, 'Bilal', 21, 3.6)

Answer 2:

DELETE FROM student

WHERE CGPA >=3

Select *from student

Result:

<i>Student_ID</i>	<i>Student_name</i>	<i>Age</i>	<i>Cgpa</i>
14946	<i>Bilal</i>	<i>21</i>	<i>3.6</i>

Question :4

Answer.1

Select Product_Name, Product_ID from contain_Table where unit Price<50 RS

Answer.2

Select Product_Name, category, Product_ID from contain_Table where Product_ID

IN (01,03,02)

Answer.3

Category	COUNT(Category)
Junk	4
Not Junk	2

Answer.4

Query

Select Oder_Details>Order_id Canteen_Table. Product_Name, Order_Details. Unit_price,

Order_Details.Quantity, From Ordar_Details INNER JOIN Canteen_Table on Order_Details.

Product_ID=Canteen_Table. Product_ID

Order_Id	Product_Name	Unit_Price	Quantity
01	Lipton Tea bags	160 RS	1
01	Olpers Milk	350 RS	1
02	Dairy milk Chocolate	80 RS	2
02	Kurkure	30 RS	2
02	Chilli Milli Jelly	5 RS	2