Name = Naveed Ahmad
ID = 14519
Exam = final term
Subject = Database System
Instructor = Rimsha Khan
Date = 30/06/2020

Answer = 1

Student id	student name	student address	Course - ID	Course - Name	Grade
01	Fawad	Karachi	SE-05	SQE	A
02	Waleed	Lahore	SE-01	AI	B
03	Saira	Peshawar	SE-02	DIP	C
04	Aiman	Karachi	SE-04	SRE	A
05	Daniyal	Lahore	SE-03	DB	B
06	Emaan	Peshawar	SE-01	AI	C
			SE-01	AI	A
			SE-03	DB	B

ø => ~~Change into 3rd norm~~

* First the table should be changed into first Normal form because of the containing data redundancy.

Student ID	studend Name	student Address	Course ID	Course Name	Grade
01	Fawad	Karachi	SE-01	AI	A
02	Waleed	Lahore	SE-02	S@E	B
03	Siara	Peshawar	SE-03	DIP	C
04	Aiman	Karachi	SE-04	DB	A
05	Danyal	Lahore	SE-05	SRE	B
06	Eman	Peshawar	SE-01	AI	C

Now as the Upper table is in 2nd normal form we are moving on.

Course ID	Course Name
SE-01	AI
SE-02	S@E
SE-03	DIP
SE-04	DB
SE-05	SRE

* Now in the upper Table "Course Name" is only "depend" on "Course ID"

Here the upper table in 2nd normal form.

* There should be no transitive dependancy for non prime attributes So now first.

In the above table "student ID" determine "student name" and "Course ID" depend on "Course name".

So Now we are divinding table below.

Student ID	Student Name	Student address	Grade
01	Fawad	Karachi	A
02	Waleed	Lahore	B
03	Siara	Peshawar	C
04	Aiman	Karachi	A
05	Danyal	Lahore	B
06	Eman	Peshawar	C

In the above colums ~~reffering~~ reffering to one primary key "Student ID"

Answer = 2

=> CREATE DATA BASE Gallery;

CREATE TABLE Movies

(

ID int Primary key,

Movie - Name Varchar (255) NOT NULL,

Genre Varchar (255),

Year Int CHECK (Year > 2020),

Rating Int CHECK (Rating > 5),

);

MOVIES

ID	Movie Name	Genre	Year	Rating
—	—	—	—	—
—	—	—	—	—
—	—	—	—	—
—	—	—	—	—
—	—	—	—	—

(5)

Answer = 3

Part - 1.

Student ID	student name	Age	CGPA

Coding for the Table.

```
(1) CREAT TABLE student
(2) (
(3) student id int primary key,
(4) Student name Vachar (255),
(5) Age int,
(6) CGPA int,
(7) );
```

For showing my table code.

```
(8) DESC student;
```

Now for Inserting data into table.

(1) DESC student ;

(2) INSERT INTO student (student id, student name, Age, CGPA)

(3) VALUES (14519, 'Naveed Ahmad', '20', '3.1');

(4) SELECT * FROM student ;

(5) INSERT INTO student

(6) VALUES (14524, 'Waseem Rehman', '21', '3.5');

(7) SELECT * FROM student;

OUTPUT:

student id	student name	Age	CGPA
14519	Naveed Ahmad	20	3.1
14524	Waseem Rehman	21	3.5

Part - 2

=> Delete all students record whose CGPA is greater 3.

=> DELETE FROM student

=> WHERE CGPA > 3;

(8)

Answer = 4

Part 1.

=> SELECT Product-Name, Product id
=> FROM Canteen-table
=> WHERE Unit-Price < 50;
=> ORDER BY Product-Name DESC,
Product-id;

Part 2,

=> Product-List-Sorted int;
=> SELECT * FROM Canteen-table
=> ORDER BY Product-List-Sorted;
=> SELECT * FROM canteen table
=> ORDER BY product Name;

Part 3:

Category	Count (category)
Junk	4
Not Junk	2

Part 4:

=> SELECT * FROM canteen_table

=> INNER JOIN order_Details

=> ON canteen_table.Product_id =

=> order_Detial.product_id;