Name Abdul Aziz

ID 14619

BS(SE) — 4 Section A

DATABASE final term

Date 30/06/2020

Std Id	Std Name	Std Add	Course Id	Course Name	Grade
01	Fawad	Karachi	SE-01	AI	A
02	Nabeel	Lahore	SE-05	SQE	B
~~03~~			SE-02	DIP	C
03	Sara	Peshawar	SE-03	DB	A
			SE-04	SPE	B
04	Aiman	Karachi	SE-03	~~DB~~	C
			SE-01	~~AI~~ AI	A
05	Danyal	Lahore	SE-01	AI	B
06	Eman	Peshawar			

Now change the above table into 1st Normal form

stdid	stdName	stdAdd	course ID	course Name	Grade
01	Fawad	Karachi	SE-01	AI	A
02	Waleed	Lahore	SE-02	SOE	B
03	Rizwan	Peshawar	SE-03	DIP	C
04	Aimen	Karachi	SE-04	DB	A
05	Danyal	Lahore	SE-05	SRE	B
06	Emaan	Peshawar	SE-01	AI	C

Now as the upper table is the 2nd normal form we are moving to next.

course id	courseName
SE-01	AI
SE-02	SOE
SE-03	DIP
SE-04	DB
SE-05	SRE

Now the upper course table only "Course Name" is dependent on course id.

Normal form. Here the upper table is in the 2nd normal form.

* there should be no transitive dependicy for non prime attributes in the 'stdId' and 'courseId' determine 'stdName' 'courseGrade' therfor in this implies that we have transitive dependency.

* we are dividing the table as shown below

StdId	stdname	std-Add	Gcode
01	Fawad	Karachi	A
02	Waheed	Lahore	B
03	Sidra	Peshawar	C
04	Aiman	Karachi	A
05	Danyal	Lahore	B
06	Emaan	Peshawar	C
			A
			B

*Here in the above table all coulms are referring to one primery key StdId

(8) — Q2.

Ans:

```
CREATE DATABASE Gallary;

CREATE TABLE Movies
(
ID . int Primery key,
Movie_Name varchar(255) NOT Null,
Genre varchar(255),
Year int CHEACK (year > 2020),
Rating int CHEACK (Rating > 5),
);
```

MOVIES

ID	Movie_Name	Genre	Year	Rating

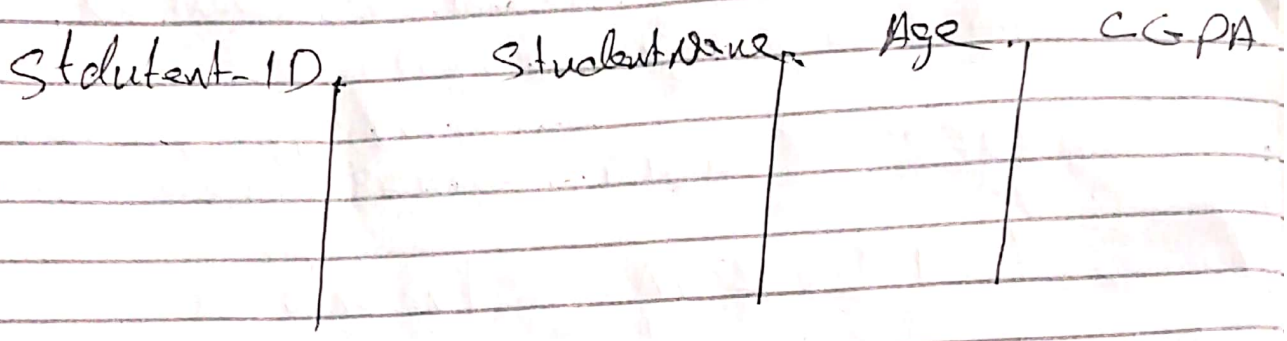
Part 2

=> Delete all student record whose CGPA is greater than 3.

=> DELETE FROM student.

=> WHERE CGPA > 3;

Q 3: part (1):



Now coding for the table:

```
1)  CREAT TABLE Student
2)  (
3)  student_id int primary key,
4)  Student_name varchar(255),
5)  Age int,
6)  CGPA int,
7)  );
```

Now for inserting into table:

1) DESC student;

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

3) VALUES (14619, ~~Abdul Aziz~~, '20', 3.4);

4) SELECT * FROM student;

5) INSERT INTO student.

6) VALUES (14481, Alam Zaib, '22', 3.3);

7) SELECT * FROM student;

output

student id	student_name	Age	CGPA
14619	Abdul Aziz	20	3.4
14481	Alam Zaib	22	3.3

Q4:

Part (1)

```
SELECT   product_Name, ProductId.
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  Canteentable,
ORDER  BY  Product-Name;
```

Part 3:

Category	Number
Junk	4
Not Junk	2

Part 4 :-

```
SELECT * FROM Canteen_table
INNER JOIN Order_Details
ON Canteen_table.Product_ID =
Ordered_Detail.Product_ID;
```