

NAME

M. Bilal

ID

14726

Subject

Database System

Q1 First Normal forms:-

Std Id	Std - Name	Std cdd	Course Id	Course Name	Grade
01	Fauwad	Karachi	SE-01	AI	A
01	fauwad	Karachi	SE-05	SQE	B
02	waleed	Lahore	SE-02	DIP	C
03	Saira	Pesh	SE-03	DB	A
03	Saira	Pesh	SE-04	SRE	B
04	Aiman	Karachi	SE-03	DB	C
05	Daniyal	Lahore	SE-01	AI	A
06	Emran	Pesh	SE-01	AI	B

2nd form Normalization:-

Std Id	Std Name	Std cdd	Course	Course	Grade
01	Fauwad	Karachi	SE-01	AI	A
01	fauwad	Karachi	SE-05	SQE	B
02	waleed	Lahore	SE-02	DIP	C
03	Saira	Pesh	SE-04	SRE	B
04	Aiman	Karachi	SE-03	DB	C
05	Daniyal	Lahore	SE-01	AI	A
06	Emran	Peshawar	SE-01	AI	B
03	Saira	Pesh	SE-03	DB	A

GRADE

Student-Id	Course-Id	Grade
01	SE-01	A
01	SE-05	B
02	SE-02	C
03	SE-03	A
03	SE-04	B
04	SE-03	C
05	SE-01	A
06	SE-01	B

3rd Normal form:-

Grade

Course-Id	Grade
SE-01	A
SE-05	B
SE-02	C
SE-03	A
SE-04	B
SE-03	C
SE-01	A
SE-01	B

Q2
1)

Create database Chatberg
Messages

Command(s) Completed Successfully

Q2

2)

Create table Movies

```
(
  id int null Primary Key
  Movie_name Varchar (50) not null
  Genre Varchar (50)
  year int check (year >= 2020)
  Rating int check (Rating >= 2020)
)
```

message

Command(s) Completed Successfully.

Select * from Movies

Result message

id	Movie_name	Genre	year	Rating
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Create table Student-Data

```
Student-Id int not null Primary key  
Student-name varchar (50) not null,  
age int,  
CGPA float,
```

Message

Command(s) Completed Successfully

insert into Student Data value
(01, "M. Bidal", 20, 4, 8)

Message:

(1 row(s) affected)

insert into Student Data values
(03, "Ali", 18, 4, 1)

Message

(1 row(s) affected)

insert into Student Data values
(02, "baloch", 22, 2, 6)

Message

(1 row(s) affected)

Selected from Students Data

Results

	Std Id	Std name	Age	CGPA
1	1	Ali	28	2.7
2	2	Fawad	18	3.0
3	3	Bilal	19	3.9

Delete from Student Data whose CGPA < 3

Message

(2 row(s) affected)

Selected * from Students Data

Results:

	Std ID	Std Name	Age	CGPA
1)	1	Bilal	20	3.9

Q 3
(1)

Create table Student_data

```
(  
Student-Id int not null Primary key,  
Student-name varchar (50) not null,  
Age int,  
CGPA float  
)
```

```
insert into Student_data value  
(02, "Ali", 15, 3, 9)
```

```
insert into student_data value  
(01, "Khan", 23, 4, 1)
```

```
insert into Student_data value  
(03, "Bilal", 22, 3, 2)
```

```
Select * from Student_Data
```

Q3 (2) → delete from Student_Data where
CGPA < 3

```
Select * from Student_Data
```

Q4

1)

Select Product-name, Product-Id
 from Canteen-table
 where Unit Price < 50

Q4 (2)

Ans: Select Product-name, category,
 Product-Id from Canteen-table
 where Product-Id IN (01, 03, 02)
 ORDER By Product-Id, Product-name

Select Canteen-table.Product-Id
 As Id
 Canteen-table.Product-name As
 name from canteen-table

Q4

iii)

where Product-Id = "home furnishings"

Category Not Column name

Junk

4

Not Junk

2

Q4

iv)

Select Canteen-table Product
 Id, Product-name, order-Id
 from Canteen-table, left outer
 join BRDER-1 ON Canteen-
 table.Product-Id

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Product ID	Product name	Unit P	ord ID
01	Chocolate	90Rs	02
02	eggs Lipton	160Rs	01
03	Kurkark	30Rs	02
04	Shezan juice	30Rs	
05	Chilli milli	50Rs	
06	alper milk	356	01