Name   :   _Muhammad Musa_

Department :   _BS(CS)_

Semester   :   _4th_

ID #   :   _15366_

Examination : _Final Term Exam_

Paper Subject   :   _Database Systems (Theory)_

Submitted To : _Ma'am Rimsha Khan_

Dated   :   _30th June 2020_

(1)

Ma'am Rimsha Khan . BS (CS)

Name	: Muhammad Musa
ID #	: 15366
Subject	: Database Systems
Dep #	: BS (CS)
Examination	: Final Term Exam
Date	: 30 - 06 - 2020

Q1.

Ans. 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	SQE	B
02	Waleed	Lahore	SE-02	DIP	C
03	Saira	Peshawar	SE-03	DB	A
03	Saira	Peshawar	SE-04	SRE	B
04	Aiman	Karachi	SE-03	DB	C
05	Daniyal	Lahore	SE-01	AI	A
06	Emaan	Peshawar	SE-01	AI	B

2nd Normal Form:

Student_Details Table:

②

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

Course Details Table:

Course_ID	Course-Name	Grade
SE-01	AI	A
SE-05	SQE	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
02	Waleed	Lahore	SE-02
03	Saira	Peshawar	SE-03
03	Saira	Peshawar	SE-04
04	Aiman	karachi	SE-03
05	Daniyal	Lahore	SE-01
06	Emaan	Peshawar	SE-01

Course-ID	Course-Name	Grade
SE-01	AI	A
SE-05	SQE	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

Q2:-
Ans:(1) create database Gallery

(2)
Ans: create table Movies (
ID integer NOT NULL primary key,
Movie_Name varchar (50) NOT NULL,
Genre varchar (50),
Year integer max = 2020

Rating integer max = 5
)
Message : Command (s) Completed Successfully
Select * from Movies

Results:

ID	Movie-Name	Genre	Year	Rating

Q3:
Ans:(1)

Create table Students_Data
(
Student_Id not null primary key,
Student_Name varchar (50) not null,
Age int,
CGPA float.
)
Message: Command (s) Completed Successfully.

int
insert into Students_Data values
(15366, M-Musa , 21 , 3.8)

Message:
1 row (s) affected.

insert into Students_Data values
(15066, Hameed , 23 , 2.8)

Message:
1 row (s) affected.

Select * from Students_Data

Result:

Student_Id	Student Name	Age	CGPA
15366	M-Musa	21	3.8
15066	Hameed	23	2.8

Ans.(2)

delete from Students_Data where CGPA > 3

Message:

1   row(s) affected

Select * from Students_Data

Result:

Student_ID	Student_Name	Age	CGPA
15066	Hameed	23	2.8

Q4:
Ans(1)

Select   Product_Name, Product_ID
from   canteen Table   where
unit   price < 50 Rs.

Ans(2) (*)   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~~
     From   Canteen_Table   where
     Product_ID = 'Home Furnishings':

Ans⁽³⁾.

Category	COUNT (Category)
Junk	4
Not Junk	2

Ans⁽⁴⁾: Select   canteen_Table. Product_ID,
        Product_Name. Order_Id   From canteen_
        Table, left   outer   join ORDER-T
        ON   canteen_Table. Product_ID =
        Order_Details. Product_ID

Product_ID	Product_Name	Unit Price	Order_Id
01	Dairy milk Chocolate	80 Rs	02
02	Lipton Tea bags	160 Rs	01
03	Kurkure	30 Rs	02
04	Shezan Juice	30 Rs	
05	Chilli Milli Jelly	5 Rs	02
06	Olpers Milk	350 Rs	01