Lab No: 01

1. Create a DB named "BUBT\_DB1".

Query:

create database BUBT DB1;

2. Create three tables in this DB named "Student", "Faculty", "Course".

## Query:

CREATE table student(Name varchar(30),ST\_ID int(2),NID int(3),Intake int(2),Section int(2),CGPA float(3.2));

INSERT INTO student VALUES('Ashraful','1','102','44','1','3.30');

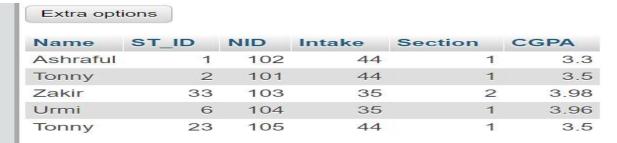
INSERT INTO student VALUES('Tonny', '2', '101', '44', '1', '3.50');

INSERT INTO student VALUES('Zakir', '33', '103', '35', '2', '3.98');

INSERT INTO student VALUES('Urmi', '6', '104', '35', '1', '3.96');

INSERT INTO student VALUES('Tonny', '23', '105', '44', '1', '3.50');

Output:



CREATE TABLE Faculty(Name varchar(30),Short\_Code varchar(7),Course\_Code varchar(8),Conduct\_Semester varchar(15));

INSERT INTO faculty VALUES('Farha Akhter Munmun', 'FAM', 'CSE 319', 'Summer 2019');

INSERT INTO faculty VALUES('Sweety Lima', 'SWL', 'CSE 209', 'Fall 2019-20');

INSERT INTO faculty VALUES('Shumi Khatun', 'SKN', 'NULL', 'Summer 2019');

INSERT INTO faculty VALUES('Nadia Afrin Ritu', 'NULL', 'CSE 351', 'NULL');

Output:

Extra options			
Name	Short_Code	Course_Code	Conduct_Semester
Farha Akhter Munmun	FAM	CSE 319	Summer 2019
Sweety Lima	SWL	CSE 209	Fall 2019-20
Shumi Khatun	SKN	NULL	Summer 2019
Nadia Afrin Ritu	NULL	CSE 351	NULL

CREATE TABLE Course(Course\_Title varchar(30),Course\_Code varchar(8));

INSERT INTO course VALUES ('Database Systems', 'CSE 207');

INSERT INTO course VALUES('Computer Networks', 'CSE 319');

INSERT INTO course VALUES('Data Communication', 'CSE 209');

INSERT INTO course VALUES('System Analysis Design', NULL);

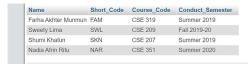


3.

a) Update the short code whose short code is NULL.

Query:

UPDATE faculty SET Short\_Code='NAR' WHERE Name='Nadia Afrin Ritu';



b) Update the course code that is NULL.

Query:

UPDATE faculty SET Course\_Code='CSE 207' WHERE Name='Shumi Khatun';



UPDATE course SET Course\_Code='CSE 323' WHERE Course\_Title='System Analysis Design';



c)Update the conduct semester that is NULL.

Query:

UPDATE faculty SET Conduct\_Semester='Summer 2020' WHERE Name='Nadia Afrin Ritu';

d) Add a new column named "Age" in student relation.

Query:

ALTER TABLE student ADD COLUMN Age int(3);

e) Update the age of each student.

Query:

UPDATE student SET Age='21' WHERE NID='102';

UPDATE student SET Age='19' WHERE NID='101';

UPDATE student SET Age='22' WHERE NID='103';

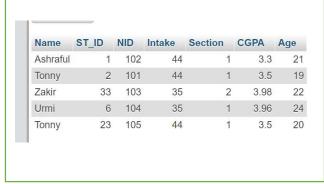
UPDATE student SET Age='24' WHERE NID='104';

UPDATE student SET Age='20' WHERE NID='105';

F) Find the names of all Courses in the Course relation.

Query:

select Course\_Title from course;





G) Find the names of all teachers who has conducted in summer 2019.

Query:

select Name from faculty where Conduct semester="Summer 2019";



H) Find the names of all students whose CGPA is greater than 3.50

Query:

SELECT Name from student where CGPA>3.50;



I) Add a new column "Offered Semester" after the column "Course Title".

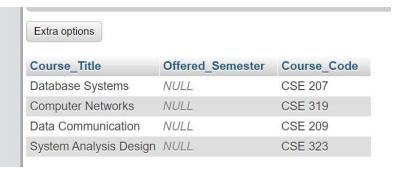
Query:

ALTER table course ADD column Offered\_Semester varchar(30) AFTER Course\_Title;

I) Add a new column "Offered Semester" after the column "Course Title".

Query:

ALTER table course ADD column Offered Semester varchar(30) AFTER Course Title;



J) Find the name and CGPA of each student order by their CGPA (ascending order).

