

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:

Extra options					
Name	ST_ID	NID	Intake	Section	CGPA
Ashraful	1	102	44	1	3.3
Tonny	2	101	44	1	3.5
Zakir	33	103	35	2	3.98
Urmi	6	104	35	1	3.96
Tonny	23	105	44	1	3.5

```
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);
```

Extra options	
Course_Title	Course_Code
Database Systems	CSE 207
Computer Networks	CSE 319
Data Communication	CSE 209
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';
```

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	CSE 207	Summer 2019
Nadia Afrin Ritu	NAR	CSE 351	Summer 2020

b) Update the course code that is NULL.

Query:

```
UPDATE faculty SET Course_Code='CSE 207' WHERE Name='Shumi Khatun';
```

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	CSE 207	Summer 2019
Nadia Afrin Ritu	NAR	CSE 351	Summer 2020

```
UPDATE course SET Course_Code='CSE 323' WHERE Course_Title='System Analysis Design';
```

Course_Title	Course_Code
Database Systems	CSE 207
Computer Networks	CSE 319
Data Communication	CSE 209
System Analysis Design	CSE 323

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';
```

Name	ST_ID	NID	Intake	Section	CGPA	Age
Ashraful	1	102	44	1	3.3	21
Tonny	2	101	44	1	3.5	19
Zakir	33	103	35	2	3.98	22
Urmi	6	104	35	1	3.96	24
Tonny	23	105	44	1	3.5	20