Q1.CREATE DATABASE Mahamudul_137;
Q2.CREATE TABLE Student(Name varchar(15),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);

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(25),Short_Code varchar(5),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");

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(25),Course_Code varchar(15));
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");

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

Q3.(a) UPDATE faculty set Short_Code = "NAF" 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	NULL	Summer 2019
Nadia Afrin Ritu	NAF	CSE 351	NULL

(b) UPDATE course set Course_Code = "CSE 317" 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 317

(c) UPDATE faculty set Conduct_Semester = "Spring 2020" 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	NULL	Summer 2019
Nadia Afrin Ritu	NAF	CSE 351	Spring 2020

(d) ALTER TABLE student ADD COLUMN Age int;

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

(e) UPDATE student SET Age = 21 WHERE St_id = 1;
    UPDATE student SET Age = 22 WHERE St_id = 2;
    UPDATE student SET Age = 23 WHERE St_id = 33;
    UPDATE student SET Age = 24 WHERE St_id = 6;
    UPDATE student SET Age = 25 WHERE St_id = 23;

Name	St_id	NID	Intake	Section	CGPA	Age
Ashraful	1	102	44	1	3.3	21
Tonny	2	101	44	1	3.5	22
Zakir	33	103	35	2	3.98	23
Urmi	6	104	35	1	3.96	24
Tonny	23	105	44	1	3.5	25

(f) SELECT Course_Title FROM course;

Course_Title
Database Systems
Computer Networks
Data Communication
System Analysis Design

(g) SELECT Name FROM faculty WHERE Conduct_Semester = "Summer 2019";

Name
Farha Akhter Munmun
Shumi Khatun

(h) SELECT Name FROM student WHERE CGPA > 3.50;

Name
Zakir
Urmi

(i) ALTER TABLE course ADD COLUMN Offered_Semester varchar(15) AFTER Course_Title;

Course_Title	Offered_Semester	Course_Code
Database Systems	NULL	CSE 207
Computer Networks	NULL	CSE 319
Data Communication	NULL	CSE 209
System Analysis Design	NULL	CSE 317

(j) SELECT Name,CGPA FROM student ORDER BY CGPA ASC;

Name	CGPA ▲ 1
Ashraful	3.3
Tonny	3.5
Tonny	3.5
Urmi	3.96
Zakir	3.98

(k) SELECT Name FROM student WHERE Age > 22 AND CGPA > 3.50;

Name	St_id	NID	Intake	Section	CGPA	Age
Ashraful	1	102	44	1	3.3	21
Tonny	2	101	44	1	3.5	22
Zakir	33	103	35	2	3.98	23
Urmi	6	104	35	1	3.96	24
Tonny	23	105	44	1	3.5	25

(l) SELECT St_id FROM student WHERE Intake=44 OR CGPA < 3.40;

St_id
1
2
23

(m) SELECT St_id FROM student WHERE CGPA IN (3.30,3.50,3.96);

St_id
2
23