```
CREATE DATABASE student menagement; create database
Table create
CREATE TABLE student (SID varchar(12), name varchar(30), email varchar(30), cgpa int(3), major varchar(10));
CREATE TABLE course (C code varchar(10), title varchar(20), credit int(2));
CREATE TABLE faculty (ID int(10), name varchar(30), designation varchar(10), salary int(6));
CREATE TABLE enrollment (SID varchar(12), FID int(10), C code varchar(10));
Insert value
INSERT INTO student VALUES ('230-15-3871', 'Shanto', 'a@gmail.com', 3, 'software');
INSERT INTO student VALUES ('230-15-3820', 'Rakib', 'b@gmail.com', 3, 'software');
INSERT INTO student VALUES ('230-15-3810', 'Samsun', 'c@gmail.com', 3, 'software');
INSERT INTO student VALUES ('230-15-3882','Asme', 'd@gmail.com', 3, 'software');
Insert value
INSERT INTO faculty VALUES (12345, 'Samsun naher', 'Professor', 100000);
INSERT INTO faculty VALUES (12346, 'Asme', 'Lecturer', 100000);
INSERT INTO faculty VALUES (12347, 'Rakibul Islam', 'Professor', 100000);
INSERT INTO faculty VALUES (12348, 'Shanto', 'Lecturer', 100000);
Insert value
INSERT INTO course VALUES ('cse311', 'dbms', 3);
INSERT INTO course VALUES ('cse312', 'dbms lab', 2);
INSERT INTO course VALUES ('cse313', 'oop2', 3);
INSERT INTO course VALUES ('cse314', 'oop2 lab', 2);
Insert value
INSERT INTO enrollment VALUES ('230-15-3871', 12345, 'cse311');
INSERT INTO enrollment VALUES ('230-15-3820', 12346, 'cse312');
INSERT INTO enrollment VALUES ('230-15-3810', 12347, 'cse313');
INSERT INTO enrollment VALUES ('230-15-3882', 12348, 'cse314');
ALTER TABLE course ADD COLUMN money int(5);
                                                     add column
```

change column type

ALTER TABLE course MODIFY money varchar(5);

ALTER TABLE course CHANGE money taka varchar(5); change column name ALTER TABLE course drop taka; drop column change table name ALTER TABLE faculty RENAME TO teacher; DROP TABLE faculty; drop table DROP DATABASE student_menagement; drop database ALTER TABLE student ADD PRIMARY KEY (SID); add primary key ALTER TABLE faculty ADD PRIMARY KEY (ID); ALTER TABLE course ADD PRIMARY KEY (C_code); ALTER TABLE course DROP PRIMARY KEY; drop primary key ALTER TABLE enrollment ADD CONSTRAINT FK_sid add foreign key FOREIGN KEY (SID) REFERENCES student(SID); ALTER TABLE enrollment ADD CONSTRAINT FK_fid add foreign key FOREIGN KEY (FID) REFERENCES faculty(ID); ALTER TABLE enrollment ADD CONSTRAINT FK_code add foreign key FOREIGN KEY (C_code) REFERENCES course(C_code);

ALTER TABLE enrollment DROP FOREIGN KEY FK_sid;

drop foreign key

```
SELECT SID FROM student WHERE name = 'Asme'
                                                                where
SELECT * FROM student WHERE major = 'CSE'
                                                                ALL
SELECT * FROM student WHERE major = 'CSE' AND name = 'Asme'
                                                                AND
SELECT * FROM student WHERE major = 'CSE' OR name = 'Asme'
                                                                OR
SELECT name FROM student where cgpa > 3;
SELECT name FROM student WHERE SID like '230%'
                                                                like
SELECT * FROM student WHERE SID like '%15%'
                                                                like
SELECT name FROM faculty WHERE ID BETWEEN 12345 AND 12347;
                                                                between
SELECT DISTINCT salary, designation FROM faculty
                                                                distinct
SELECT DISTINCT major FROM student;
                                                                distinct
SELECT * FROM student ORDER BY cgpa;
                                                                order by
SELECT * FROM student ORDER BY cgpa DESC;
                                                                order by descending
SELECT * FROM student ORDER BY name;
                                                                order by alpabetic
SELECT * FROM passenger ORDER BY p id LIMIT 3;
                                                                order by limit
SELECT * FROM passenger ORDER BY p_id LIMIT 1, 2;
                                                                order by limit range
JOIN
SELECT name FROM student JOIN enrollment ON enrollment.SID = student.SID WHERE C code = 'CSE311';
SELECT name FROM faculty JOIN enrollment JOIN course ON enrollment.FID = faculty.ID AND enrollment.C_code =
course.C_code WHERE credit > 2;
SELECT student.name from student JOIN faculty JOIN course JOIN enrollment ON student.SID = enrollment.SID
AND enrollment.FID = faculty.ID AND enrollment.C code = course.C code WHERE faculty.name = 'Samsun Naher'
AND course.title = 'DBMS';
Aggregate
SELECT AVG(cgpa) FROM student;
SELECT MAX(cgpa) FROM student;
SELECT MIN(cgpa) FROM student;
SELECT COUNT(studentID) FROM student;
SELECT SUM(cgpa) FROM student;
Aggregate (condition)
SELECT SUM(cgpa) FROM student WHERE department = "cse";
SELECT AVG(cgpa) FROM student GROUP BY department HAVING department = "cse";
```

View create

```
CREATE VIEW studentt_view AS

SELECT * FROM student JOIN faculty JOIN enrollment JOIN course ON

student.studentID = enrollment.SID AND

faculty.facultyID = enrollment.FID AND

course.Course_code = enrollment.C_code;

search from view

SELECT studentID FROM studentt_view WHERE Course_code = "cse314";

SELECT studentName, facultyName FROM studentt_view WHERE Course_code = "cse314" AND title = "oop2 lab";
```