```
column1 datatype CONSTRAINT,
 column2 datatype CONSTRAINT,
);
CREATE TABLE Student (
 RollNo INT PRIMARY KEY,
 Name VARCHAR(50),
 Dept VARCHAR(20),
 Year INT,
 Percentage FLO
ΑT
);
INSERT INTO table_name (column1, column2, ...) VALUES (value1, value2, ...);
INSERT INTO Student (RollNo, Name, Dept, Year, Percentage)
VALUES (1, 'Amit', 'IT', 2, 78.5;
SELECT * FROM Student;
SELECT Name, Dept FROM Student WHERE Percentage > 70;
SELECT * FROM Student ORDER BY Percentage DESC;
SELECT DISTINCT Dept FROM Student;
UPDATE table_name SET column1 = value1 WHERE condition;
UPDATE Student SET Percentage = 85 WHERE RollNo = 1;
DELETE FROM table_name WHERE condition;
DELETE FROM Student WHERE RollNo = 1;
ALTER TABLE Student ADD Email VARCHAR(100);
ALTER TABLE Student MODIFY Percentage DECIMAL(5,2);
ALTER TABLE Student DROP COLUMN Email;
```

CREATE TABLE table\_name (

DROP TABLE Student;
CREATE TABLE Dept (
DeptiD INT PRIMARY KEY,
DeptName VARCHAR(50);
CREATE TABLE Student (
Rollno int primary key,
Name VARCHAR(50),
DeptiD INT,
FOREIGN KEY (DeptID) REFERENCES Dept(DeptID
);
SELECT COUNT(*) FROM Student;
SELECT MAX(Percentage) FROM Student;
SELECT MIN(Percentage) FROM Student;
SELECT AVG(Percentage) FROM Student;
SELECT SUM(Percentage) FROM Student;
SELECT Dept, AVG(Percentage)
FROM Student
GROUP BY Dept
HAVING AVG(Percentage) >
70;
SELECT Student.Name, Dept.DeptName
FROM Student
INNER JOIN Dept ON Student.DeptID = Dept.DeptID;

FROM Student
LEFT JOIN Dept ON Student.DeptID = Dept.DeptID;
SELECT Student.Name, Dept.DeptName
FROM Student
RIGHT JOIN Dept ON Student.DeptID = Dept.DeptID;
SELECT Name FROM Student
WHERE DeptID IN (SELECT DeptID FROM Dept WHERE DeptName = 'IT')
SELECT Name FROM Student
WHERE Percentage = (SELECT MAX(Percentage) FROM Student)
CREATE VIEW HighScorers AS
SELECT Name, Percentage FROM Student WHERE Percentage > 75;
SELECT * FROM High scores;
CREATE INDEX idx_name ON Student(Name);
BEGIN;
JPDATE Student SET Percentage = 90 WHERE RollNo = 2;
SAVEPOINT before_discount;
JPDATE Student SET Percentage = Percentage - 5;

ROLLBACK TO before\_discount;

CREATE VIEW view_name AS
SELECT columns
FROM table
WHERE conditi
on;
сомміт;
CREATE VIEW Top_Students AS
SELECT Name, Percentage
FROM Student
WHERE Percentage >
85;
SELECT * FROM IT_Students;
CREATE INDEX index_name ON table(column);
CREATE INDEX idx_name ON Student(Name);
CREATE INDEX idx_dept_percentage ON Student(Dept, Percentage);
DROP INDEX idx_name ON Student;
CREATE TRIGGER trigger_name
AFTER INSERT ON table_name
FOR EACH ROW
BEGIN
SQL statement
END;

RollNo INT,
Action VARCHAR(20),
LogTime TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
CREATE TRIGGER after_insert_student
AFTER INSERT ON Student
FOR EACH ROW
BEGIN
INSERT INTO Student_Log (RollNo, Action)
VALUES (NEW.RollNo, 'INSER
TED');
END;
CREATE TRIGGER prevent_low_percentage
BEFORE INSERT ON Student
FOR EACH ROW
BEGIN
IF NEW.Percentage < 35 THEN
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = 'Percentage too low to insert';
END I
F;

CREATE TABLE Student\_Log (

END;

CREATE PROCEDURE procedure_name(IN param1 datatype, OUT param2 datatype)	
BEGIN	
SQL statements	
END \$\$	
DELIMITER;	
DELIMITER \$\$	
CREATE PROCEDURE GetAvgPercentage(IN deptName VARCHAR(20), OUT avgPercent FLOAT)	
BEGIN	
SELECT AVG(Percentage) INTO avgPercent	
FROM Student	
WHERE Dept = deptName;	
END \$\$	
DELIMITER;	
CALL GetAvgPercentage('IT', @avg);	
SELECT @avg;	
DELIMITER \$\$	
CREATE PROCEDURE AddStudent(	

DELIMITER \$\$

IN rno INT,

IN sname VARCHAR(50),
IN dept VARCHAR(20),
IN year INT,
IN perc FLOAT
)
BEGIN
INSERT INTO Student(RollNo, Name, Dept, Year, Percentage)
VALUES (rno, sname, dept, year, perc);
END \$\$
DELIMITER;
Calling it:
CALL AddStudent(4, 'Sneha'
, 'CS', 2, 89.5);