create database student;

use student;

CREATE TABLE student (

STUDENT\_ID INT PRIMARY KEY,

FIRST\_NAME VARCHAR(50),

LAST\_NAME VARCHAR(50),

PHONE\_NUMBER VARCHAR(15),

MARKS INT,

COURSE\_ID INT

);

CREATE TABLE Course (

COURSE\_ID INT PRIMARY KEY,

COURSE\_NAME VARCHAR(50)

);

INSERT INTO Course (COURSE\_ID, COURSE\_NAME)

VALUES

(1, 'Mathematics'),

(2, 'Physics'),

(3, 'Chemistry'),

(4, 'Biology'),

(5, 'Computer Science'),

(6, 'English'),

(7, 'History'),

(8, 'Geography');

INSERT INTO Student (STUDENT\_ID, FIRST\_NAME, LAST\_NAME, PHONE\_NUMBER, MARKS, COURSE\_ID)

VALUES

(1, 'John', 'Doe', '9876543210', 85, 1),

(2, 'Jane', 'Smith', '9876543211', 90, 2),

(3, 'Sam', 'Taylor', '9876543212', 88, 3),

(4, 'Emily', 'Johnson', '9876543213', 92, 4),

(5, 'Michael', 'Brown', '9876543214', 75, 5),

(6, 'Sarah', 'Davis', '9876543215', 78, 6),

(7, 'David', 'Martinez', '9876543216', 82, 7),

(8, 'Linda', 'Harris', '9876543217', 95, 8);

SELECT COURSE\_ID, COUNT(STUDENT\_ID) AS STUDENT\_COUNT

FROM Student

GROUP BY COURSE\_ID;

SELECT s.FIRST\_NAME, s.LAST\_NAME, c.COURSE\_NAME, s.MARKS

FROM Student s

JOIN Course c ON s.COURSE\_ID = c.COURSE\_ID;

SELECT c.COURSE\_NAME, AVG(s.MARKS) AS AVERAGE\_MARKS

FROM Student s

JOIN Course c ON s.COURSE\_ID = c.COURSE\_ID

GROUP BY c.COURSE\_NAME;

