**Task1**

**Project Title: Academic Management System-**

**TASK 1: 1a)**

CREATE TABLE StudentInfo (

STU\_ID INT PRIMARY KEY,

STU\_NAME VARCHAR(50),

DOB DATE,

PHONE\_NO VARCHAR(15),

EMAIL\_ID VARCHAR(50),

ADDRESS VARCHAR(150)

);

**TASK 1: 1b)**

CREATE TABLE CoursesInfo (

COURSE\_ID INT PRIMARY KEY,

COURSE\_NAME VARCHAR(50),

COURSE\_INSTRUCTOR VARCHAR(50)

);

**TASK 1: 1c)**

CREATE TABLE EnrollmentInfo (

ENROLLMENT\_ID INT PRIMARY KEY,

STU\_ID INT,

COURSE\_ID INT,

ENROLL\_STATUS VARCHAR(20),

FOREIGN KEY (STU\_ID) REFERENCES StudentInfo(STU\_ID),

FOREIGN KEY (COURSE\_ID) REFERENCES CoursesInfo(COURSE\_ID)

);

**TASK 1: 2)**

INSERT INTO StudentInfo (STU\_ID, STU\_NAME, DOB, PHONE\_NO, EMAIL\_ID, ADDRESS) VALUES

(1, 'Mangesh Raghuvan', '1994-05-16', '123', 'mangeshraghuvan@gmail.com', '123 Anand nagar Pune'),

(2, 'Rohan Raghuvan', '1994-08-01', '456', 'rohanraghuvan@gmail.com', '456 Anand nagar Pune'),

(3, 'Chetan Supe', '1995-04-01', '789', 'chetansupe@gmail.com', '789 Dange Chowk Pune'),

(4, 'Sai Kumar', '1995-05-20', '147', 'saikumar@gmail.com', '147 Main street Pune');

INSERT INTO CoursesInfo (COURSE\_ID, COURSE\_NAME, COURSE\_INSTRUCTOR) VALUES

(1, 'Physics', 'Malwadkar'),

(2, 'Chemistry', 'Khandekar'),

(3, 'Maths', 'Kanjalkar'),

(4, 'Biology', 'Agashe');

INSERT INTO EnrollmentInfo (ENROLLMENT\_ID, STU\_ID, COURSE\_ID, ENROLL\_STATUS) VALUES

(1, 1, 1, 'Enrolled'),

(2, 2, 2, 'Enrolled'),

(3, 3, 3, 'Not Enrolled'),

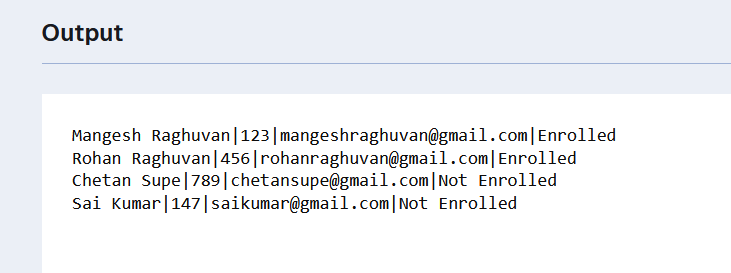
(4, 4, 4, 'Not Enrolled');

**TASK 1: 3a)**

SELECT STU\_NAME, PHONE\_NO, EMAIL\_ID, ENROLL\_STATUS

FROM StudentInfo

JOIN EnrollmentInfo ON StudentInfo.STU\_ID = EnrollmentInfo.STU\_ID;



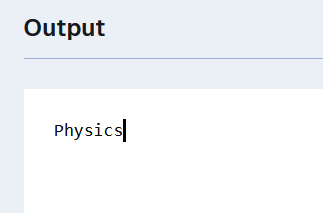
**TASK 1: 3b)**

SELECT COURSE\_NAME

FROM CoursesInfo

JOIN EnrollmentInfo ON CoursesInfo.COURSE\_ID = EnrollmentInfo.COURSE\_ID

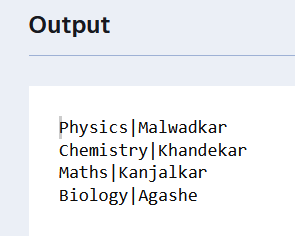
WHERE STU\_ID = 1;



**TASK 1: 3c)**

SELECT COURSE\_NAME, COURSE\_INSTRUCTOR

FROM CoursesInfo;

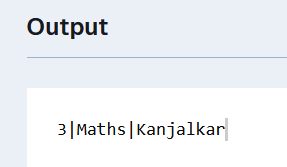


**TASK 1: 3d)**

SELECT COURSE\_ID, COURSE\_NAME, COURSE\_INSTRUCTOR

FROM CoursesInfo

Where COURSE\_NAME = 'Maths';

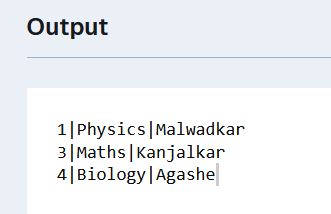


**TASK 1: 3e)**

SELECT COURSE\_ID, COURSE\_NAME, COURSE\_INSTRUCTOR

FROM CoursesInfo

Where COURSE\_NAME IN ('Maths', 'Physics', 'Biology');



**TASK 1: 4a)**

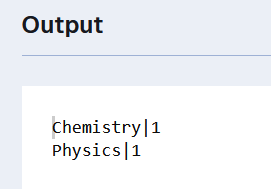
SELECT COURSE\_NAME, COUNT(ENROLLMENT\_ID) AS NUMBER\_OF\_STUDENTS

FROM CoursesInfo

JOIN EnrollmentInfo ON CoursesInfo.COURSE\_ID = EnrollmentInfo.COURSE\_ID

WHERE ENROLL\_STATUS = 'Enrolled'

GROUP BY COURSE\_NAME;



**TASK 1: 4b)**

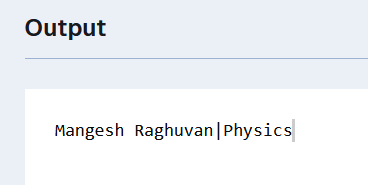
SELECT StudentInfo.STU\_NAME, CoursesInfo.COURSE\_NAME

FROM StudentInfo

JOIN EnrollmentInfo ON StudentInfo.STU\_ID = EnrollmentInfo.STU\_ID

JOIN CoursesInfo ON EnrollmentInfo.COURSE\_ID = CoursesInfo.COURSE\_ID

WHERE CoursesInfo.COURSE\_ID = 1;



**TASK 1: 4c)**

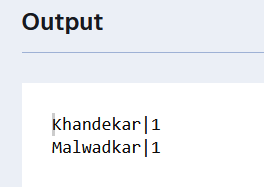
SELECT COURSE\_INSTRUCTOR, COUNT(ENROLLMENT\_ID) AS Count\_Of\_Enrolled\_Students

FROM CoursesInfo

JOIN EnrollmentInfo ON CoursesInfo.COURSE\_ID = EnrollmentInfo.COURSE\_ID

WHERE ENROLL\_STATUS = 'Enrolled'

GROUP BY COURSE\_INSTRUCTOR;



**TASK 1: 4d)**

SELECT StudentInfo.STU\_NAME, CoursesInfo.COURSE\_NAME

FROM StudentInfo

JOIN EnrollmentInfo ON StudentInfo.STU\_ID = EnrollmentInfo.STU\_ID

JOIN CoursesInfo ON EnrollmentInfo.COURSE\_ID = CoursesInfo.COURSE\_ID

WHERE CoursesInfo.COURSE\_ID IN (1,2)

GROUP BY StudentInfo.STU\_ID, StudentInfo.STU\_NAME

HAVING COUNT(DISTINCT EnrollmentInfo.COURSE\_ID) > 1;

**TASK 1: 4e)**

SELECT CoursesInfo.COURSE\_ID, CoursesInfo.COURSE\_NAME, COUNT(EnrollmentInfo.STU\_ID) AS Enrolled\_Students

FROM CoursesInfo

JOIN EnrollmentInfo ON CoursesInfo.COURSE\_ID = EnrollmentInfo.COURSE\_ID

GROUP BY CoursesInfo.COURSE\_ID, CoursesInfo.COURSE\_NAME

ORDER BY Enrolled\_Students DESC;

