**MySQL TASK 2**

Create database task;

Use task;

**//table 1**

create table students(

-> student\_id int primary key,

-> name varchar(40),

-> age int,

-> major varchar(100),

-> gpa decimal(10,2),

-> nrolment\_date date);

INSERT INTO Students (student\_id, name, age, major, gpa,

-> nrolment\_date)

-> VALUES

-> (101, ‘Alice Johnson’, 20, ‘Computer Science’, 3.8, ‘2023-01-15’),

-> (102, ‘Bob Smith’, 22, ‘Mathematics’, 3.4, ‘2023-03-22’),

-> (103, ‘Carol Lee’, 19, ‘Biology’, 3.2, ‘2023-04-10’),

-> (104, ‘David Brown’, 21, ‘Physics’, 2.9, ‘2022-11-05’),

-> (105, ‘Eve Davis’, 23, ‘Computer Science’, 3.6, ‘2022-08-20’),

-> (106, ‘Frank Miller’, 20, ‘Mathematics’, 3.1, ‘2023-02-28’);

**//table 2**

create table courses(

course\_id int primary key,

course\_name varchar(100),

credits int);

INSERT INTO Enrollments (nrolment\_id,

-> student\_id, course\_id, nrolment\_date)

-> VALUES

-> (301, 101, 201, ‘2023-01-20’),

-> (302, 102, 202, ‘2023-03-25’),

-> (303, 103, 203, ‘2023-04-15’),

-> (304, 104, 204, ‘2022-11-10’),

-> (305, 105, 205, ‘2022-08-25’),

-> (306, 106, 202, ‘2023-03-01’);

**//TABLE 3**

create table enrollments(

nrolment\_id int primary key,

student\_id int,

course\_id int,

nrolment\_date date,

FOREIGN KEY (student\_id) REFERENCES students(student\_id),

FOREIGN KEY (course\_id) REFERENCES courses(course\_id)

);

INSERT INTO Enrollments (nrolment\_id,

-> student\_id, course\_id, nrolment\_date)

-> VALUES

-> (301, 101, 201, ‘2023-01-20’),

-> (302, 102, 202, ‘2023-03-25’),

-> (303, 103, 203, ‘2023-04-15’),

-> (304, 104, 204, ‘2022-11-10’),

-> (305, 105, 205, ‘2022-08-25’),

-> (306, 106, 202, ‘2023-03-01’);

1. select s.student\_id, s.name,c.course\_name

from

students s

join enrollments e

on s.student\_id = e.student\_id

join courses c

on e.course\_id = c.course\_id;

1. select c.course\_name, count(e.student\_id) as totalstudents

from students s

join enrollments e

on s.student\_id= e.student\_id

join courses c

on e.course\_id = c.course\_id

group by c.course\_name;

1. select c.course\_name, count(e.student\_id) as totalstudents

from students s

join enrollments e

on s.student\_id= e.student\_id

join courses c

on e.course\_id = c.course\_id

group by c.course\_name

having totalstudents>= 2;

1. select c.course\_name, count(e.student\_id) as totalstudents desc

from students s

join enrollments e

on s.student\_id= e.student\_id

join courses c

on e.course\_id = c.course\_id

group by c.course\_name

limit 1;

1. select major, avg(gpa) as Avg\_GPA

from students

group by major;