Lab9
SQL (Structured Query Language)

Objectives:

- Ability to write complex SQL queries.
- Using and referencing Composite keys
- Know how to use Union, Exists and implementing division.

Database:

Cont. on previous lab schema:

The following relations show basic entities of Course Registration Processing System.

Implement the following schema using DDL statements:-

department (dept_id, dept_name)
student (student_id, student_name, major, level, age)
professor (prof_id, prof_name, dept_id)
course (course_code, name**)**
semester_course (course_code, quarter, year, prof_id)
enrolled (student_id, course_code, quarter, year, enrolled_at)

SQL Queries:

1. Find the course code and name for each course with more than 2 enrollments in spring of 2016.
2. Find students' names enrolled in **all courses** that professor with id="2" has taught.

3. Find the names and ids of the professors that have taught less than 2 courses and whose department is either 1,2,3,4.
4. Find course name, course code and professor name and id for courses that the same professor taught twice or more.

Deliverable

- SQL query you used to answer the questions above and the output/error if any