Laboratory work 3

- Please, use the provided code to generate university schema, and run queries to insert sample data;

    - LAB3_DDL.sql
    - LAB3_DML.sql

1. Write the following queries in SQL, using the university schema:
    a. Find all courses worth more than 3 credits;
    b. Find all classrooms situated either in 'Watson' or 'Packard' buildings;
    c. Find all courses offered by the Computer Science department;
    d. Find all courses offered during fall;
    e. Find all students who have more than 45 credits but less than 90;
    f. Find all students whose names end with vowels;
    g. Find all courses which have course 'CS-101' as their prerequisite;

2. Write the following queries in SQL, using the university schema:
    a. For each department, find the average salary of instructors in that department and list them in ascending order. Assume that every department has at least one instructor;
    b. Find the building where the biggest number of courses takes place;
    c. Find the department with the lowest number of courses offered;
    d. Find the ID and name of each student who has taken more than 3 courses from the Computer Science department;
    e. Find all instructors who work either in Biology, Philosophy, or Music departments;
    f. Find all instructors who taught in the 2018 year but not in the 2017 year;

3. Write the following queries in SQL, using the university schema:
    a. Find all students who have taken Comp. Sci. course and got an excellent grade (i.e., A, or A-) and sort them alphabetically;
    b. Find all advisors of students who got grades lower than B on any class;
    c. Find all departments whose students have never gotten an F or C grade;
    d. Find all instructors who have never given an A grade in any of the courses they taught;
    e. Find all courses offered in the morning hours (i.e., courses ending before 13:00);