Lab Assignment 2

Perform the following actions on a database through SQL queries.

1) Order the tuples in the instructors relation as per their salary.
2) Find courses that ran in Fall 2017 or in Spring 2018
3) Find courses that ran in Fall 2017 and in Spring 2018
4) Find courses that ran in Fall 2017 but not in Spring 2018
5) Insert following additional tuples in *instructor*
   ('10211', 'Smith', 'Biology', 66000)
   ('10212', 'Tom', 'Biology', NULL)

6) Find all instructors whose salary is null.
7) Find the average salary of instructors in the Computer Science department.
8) Find the total number of instructors who teach a course in the Spring 2018 semester.
9) Find the number of tuples in the teaches relation
10) Find the average salary of instructors in each department
11) Find the names and average salaries of all departments whose average salary is greater than 42000
12) Name all instructors whose name is neither "Mozart" nor Einstein".
13) Find names of instructors with salary greater than that of some (at least one) instructor in the Biology department.
14) Find the names of all instructors whose salary is greater than the salary of all instructors in the Biology department.
15) Find the average instructors' salaries of those departments where the average salary is greater than 42,000.
16) Find all departments where the total salary is greater than the average of the total salary at all departments
17) List the names of instructors along with the course ID of the courses that they taught.
18) List the names of instructors along with the course ID of the courses that they taught. In case, an instructor teaches no courses keep the course ID as null.