**CYPRUS INTERNATIONAL UNIVERSITY**

FACULTY OF ENGINEERING

CMPE344 – Database Management Systems and Programming II

Lab2

1. CREATE TABLE Instructor (

instructor\_id INT PRIMARY KEY,

name VARCHAR(100),

department VARCHAR(50),

course\_id INT,

salary DECIMAL

);

INSERT INTO Instructor (instructor\_id, name, department, course\_id, salary)

VALUES

(1, 'John Doe', 'Computer', 101, 1500.00),

(2, 'Jane Smith', 'Math', 201, 1200.00),

(3, 'Alice Johnson', 'Physics', 301, 1100.00),

(4, 'Bob Brown', 'Computer', 102, 1800.00),

(5, 'Charlie Davis', NULL, NULL, 900.00),

(6, 'Eva Lee', 'Computer', 103, 1300.00),

(7, 'Frank Wilson', 'Math', 202, 1000.00),

(8, 'Grace Lee', NULL, NULL, 950.00);

1. Write an SQL query to retrieve a list of distinct departments from the instructor table, ensuring that the department is not null.

1. Write an SQL query to display the details of instructors who have a salary greater than $1000 and belong to the 'Computer' department.
2. Write an SQL query to retrieve all records from the instructor table where the department field is empty (null).
3. Write an SQL query to display the details of instructors who belong to the 'Computer' department, limiting the output to the first 2 records.
4. Write an SQL query to calculate the average salary of instructors who belong to the 'Computer' department.
5. Write an SQL query to count the number of non-null values in the department column of the instructor table.
6. Write an SQL query to retrieve all records from the instructor table where the department name starts with 'Ph'.
7. Write an SQL query to retrieve the names of instructors who teach courses with a course\_id greater than 200, by using a nested query.
8. Write an SQL query to display the names of instructors who earn a salary greater than the average salary of all instructors, by using a nested query.
9. Write an SQL query to retrieve the names of instructors who teach courses with the lowest salary among all courses, by using a nested query.