# CDBM 280 – Database Management Systems

## Assignment 2 – Queries

Given: Thursday, November 7, 2019

Due: Tuesday, November 19, 2019, 10:00 p.m. No late submissions accepted.

* Create one Word document that contains your answers to all the questions in this assignment. (Output from the queries is not necessary.). Save your document as A2CSTxxx.docx (where CSTxxx is your account).
* Your completed Word document should be **submitted** to the Assign drive: \CST\CDBM280\A2
* Place a **printed** copy of your assignment in the hand-in box outside of Glenn's office. (Use a 12 point font.)
* Include a CST standard cover page with you name and label each answer with the question number.

### SELECT Queries

**Note: use no subqueries in the SELECT or FROM clauses, and use no views for this section. Also, DO NOT use any functions not discussed in class. Marks will be deducted for any of these items.**

Using the tables existing under schema owner "A3", provide the SELECT statements to answer the following. When referring to tables you’ll need to follow the format A3.TableName.

Do not use functions and/or advanced techniques not discussed in class. All necessary tools to accomplish these queries have been demonstrated. Use no subqueries in the column select list nor the FROM list, though they may be used in the WHERE and HAVING sections as needed.

Follow good practices when displaying field names and choosing column display order. Submitted SQL need not follow a specific coding standard but should be readable and organized. Use indentation and line breaks where appropriate.

An ERD for the table used is at the end of this document.

1. The company wants a list showing their managers’ phone numbers. List the first and last name and phone for all employees who are department managers. Sort the results by last name then first name.
   1. Solve using a join.
   2. Solve using a simple subquery.

*[4 marks]*

1. List the department number, department name and the number of employees who work for that department. For employees not assigned to a department, display the department number as “No Dept”, the department name as "<not assigned>" and the count of employees.
   1. Solve using an outer join.
   2. Solve using a UNION.

*[6 marks]*

1. Some employees have not been assigned to a department. Write a query that will list the employee number, last name, and first name of employees with no department, along with the project number and the project's department number for the project(s) with the earliest dateWorked recorded for that employee.

*[5 marks]*

1. Kenya Green is a department manager. He would like to buy lunch for any employee who has worked a total of 10 or more hours on projects associated with the departments he manages. Write a query that does not use any subqueries to list the employee number, full name (in the form "First Last"), and phone for employees who are going for lunch!

*[5 marks]*

