

Lab 4 Deadline: June 8, 2019 by 11:pm (worth: 0.5%)

Instructions: you must have completed lab 0 in your account before working on this lab. **Please upload a single answer file in myseneca -> Assignments section.**

Sql developer users: You may capture screenshot for each worksheet (for each SQL statement and corresponding output) and compile them in a single word/pdf file to upload.

Sql plus users: Use a single spool file to capture your sql commands and output. You must run the sql commands in sequence to the questions below.

Please remember to upload the correct file before submitting - you only get one chance to submit. The Lab 4 submission link will not be available after deadline in the Assignments section.

Allow enough time to upload or deal with unexpected issues. Do not wait for the last moment since there are transmission time/queuing delay/processing time etc. from your machine to the blackboard server.

Late penalty is 100%.

1. Display the department name, city, street address and postal code for all departments. Use the JOIN and USING form of syntax.
Sort the output by department name descending.
2. Display full name of the employees, their hire date and salary together with their department name, but only for departments which names start with **A** or **S**. Full name should be in format of :
First / Last. Use the JOIN and ON form of syntax.
Sort the output by department name and then by last name.
3. Display full name of the manager of each department in provinces Ontario, California and Washington plus department name, city, postal code and province name. Full name should be in format of :
Last, First. Use the JOIN and ON form of syntax.
Sort the output by city and then by department name.
4. Display the department name and Highest, Lowest and Average pay per each department. Name these results *High*, *Low* and *Avg*.
Use JOIN and ON form of the syntax.
Sort the output so that department with highest average salary are shown first.
5. Display the employee last name and employee number along with their manager's last name and manager number. Label the columns Employee, Emp#, Manager, and Mgr#, respectively.