

CS 325 - Week 13 Lab Exercise

- This lab exercise is due by the end of lab on Wednesday, November 16.
- Work in PAIRS (two people at one computer, one typing, the other saying what to type) for this lab exercise. (One trio is permitted if there is an odd number of students in lab.)
 - You will **not** receive full credit if you work as an individual.
- Begin a SQL script `lab13.sql` with a comment including at least your names and today's date. Add commands for the following into this SQL script.
- FIRST: start spooling to a file `lab13-results.txt` (so the above set-up is not in the spooled results.)
- Write a `prompt` command that outputs both of your names.
- Write a `prompt` command outputting `lab problem 1`, then...
 - drop and create a view `dept_avgs` that includes just department names (with column name `dept_name`) and the average salary of all employees who work in that department (with column name `avg_salary`).
 - write a query doing a relational selection of `dept_avgs`
- Write a `prompt` command outputting `lab problem 2`, then...
 - write a `column` command that gives the `dept_name` column a noticeably-different heading and format of your choice, and
 - use `/` to re-run the previous query, to show this change in action.
- Write a `prompt` command outputting `lab problem 3`, then...
 - write a `column` command that gives the `avg_salary` column a noticeably-different heading and a format of your choice, and
 - use `/` to re-run the previous query, to show this change in action.
- Write a `prompt` command outputting `lab problem 4`, then...
 - write a `column` command that specifically gives column `salary` whatever format `avg_salary` has at this time, BUT then changes its heading to a noticeably-different heading
 - write a query that does an equi-join of `dept` and `empl`, BUT it only projects the columns `dept_name` and `salary` from that equi-join, ORDERING the results by `dept_name`
- Write a `prompt` command outputting `lab problem 5`, then...
 - write a `break` command to break on column `dept_name`, and
 - use `/` to re-run the previous query, to show this change in action.
- Write a `prompt` command outputting `lab problem 6`, then...
 - write a `compute` command to print the average of the salaries for each `dept_name`, and
 - use `/` to re-run the previous query, to show the `compute`'s effects.
- Write a `prompt` command outputting `lab problem 7`, then...
 - write a `tttitle` to add a top title of your choice, and
 - use `/` to re-run the previous query, and show the resulting top title.

- Write a prompt command outputting `lab problem 8`, then...
 - be polite, and write the commands to clear breaks, columns, and computes, and to turn top titles off. (Although resetting space, feedback, pagesize, linesize, newpage, and heading were not required for this lab exercise, if you DID reset any of these, restore them to their default values, also.)
- Turn off spooling.
- Execute and (as necessary) debug your script. When you believe your SQL script is working properly, submit your `lab13.sql` and `lab13-results.txt` files using `~st10/325submit` with a homework number of **93**.