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 ttitle 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**.