

## CS 325 - Week 12 Lab Exercise

- This lab exercise is due by the end of lab on Wednesday, November 9.
- 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 `lab12.sql` with a comment including at least your names and today's date. Add commands for the following into this SQL script.
- FIRST: Make sure there is a copy of `set-up-ex-tb1s.sql` in the current directory, then put this command in your script:  

```
start set-up-ex-tb1s.sql
```

...so that your script will always start with a "clean" complete version of the `empl` and `dept` tables, before we start altering their contents with `UPDATE`'s and `DELETE`'s...!
- THEN start spooling to a file `lab12-results.txt`.
- Write a `prompt` command that outputs both of your names.
- Write a `prompt` command outputting `lab problem 1`, then write an `UPDATE` command that will set the `commission` attribute to 10 for all employees whose `job_title` is 'Manager', followed by a query that will show all of the contents of the `empl` table.
- Write a `prompt` command outputting `lab problem 2`, then write a `DELETE` command that will delete employees whose `job_title` is 'Clerk', followed by a query that will show all of the contents of the `empl` table.
- Write a `prompt` command outputting `lab problem 3`, then drop and create a view `empl_salaries` that includes just employee last names and employee salaries.
- Write a `prompt` command outputting `lab problem 4`, then write a query that will project all of the "contents" of the `empl_salaries` view.
- Write a `prompt` command outputting `lab problem 5`, then write a query that will project just the highest salary using **only** the `empl_salaries` view.
- Write a `prompt` command outputting `lab problem 6`, then drop and create a view `earliest_hires` that will contain two columns: a job title, and the earliest (minimum) hire date for someone with that job title.
- Write a `prompt` command outputting `lab problem 7`, then write a query that will project all of the "contents" of the `earliest_hires` view.
- Write a `prompt` command outputting `lab problem 8`, then write a query that will project just the latest minimum hire date for any job title using **only** the `earliest_hires` view.
- Turn off spooling.
- Execute and (as necessary) debug your script.
- When you believe your SQL script is working properly, submit your `lab12.sql` and `lab12-results.txt` files using `~st10/325submit` with a homework number of **92**.