

Applying SQL #1

(25 points • est. time 45 minutes)

Background

This exercise has you use material you've seen in chapters 1 and 2 of our *Oracle SQL* text and the class notes. You will find it helpful to use the *Student* and *Issue25* schema handouts.

Tasks

1. Launch *SQL*Plus* and connect to our *cis119do* database using your Oracle username and password.
2. Spool the results of your session to a text file with the command below. (Use your own username instead of `ttrollen`. Do not include spaces).

```
SQL>spool c:\ttrollen_applyingsql_1.txt
```

3. Issue the following commands:

```
SQL>show user
SQL>select sysdate from dual;
```

4. Use the following *SQL*Plus* commands to make your output more readable:

```
SQL>set pagesize 60
SQL>set linesize 120
```

5. Show the structure (i.e., the column names, datatypes and nullability) of the *ARTICLE* table.
6. Show the title, type and length of each article.
7. Edit your previous query to show the title, type and length for law articles only.
8. Edit your previous query to show the title, type and length for only law articles that are also longer than 1650 words.
9. Show the title, issue and length of each article, sorted with the longest article on top for only business or political or law articles.
10. Show the name, freelancer status, and last contact date of each writer, sorted primarily by freelancer status and secondarily by last contact date with the most recent on top.

11. Show the course number, description and cost of any course that does not have a prerequisite.
12. Display the course number, description and cost of any course that has **Java** *anywhere* within its description. Use *wildcard(s)* to accomplish this.
13. Show a *nonduplicated* list of the locations where the sections of course number 120 are scheduled.
14. Display the section id, modified date, and capacity of any section whose created date is different from its modified date and whose capacity less than 20.
15. The department chair has just learned that the elevator door project in the L building's 5th floor is not complete. This is a problem because instructors 102 and 107 were in an auto accident last week and are confined wheelchairs! Thus any of instructor 102's or 107's sections scheduled in a location beginning with **L5** need to be relocated. Show the section id, course number, location and instructor id for sections that need to be relocated. Do *not* use the **IN** operator.
16. Turn off spooling with the command

```
SQL>spool off
```

17. Open your spooled text file in a word processor. Type your name in the first line. Change the font size to 8 or 10 points and use the font named Courier New.
18. Type the corresponding task number (5-15) above each command of your printout.
19. Save and *print* the contents of your spooled text file.