

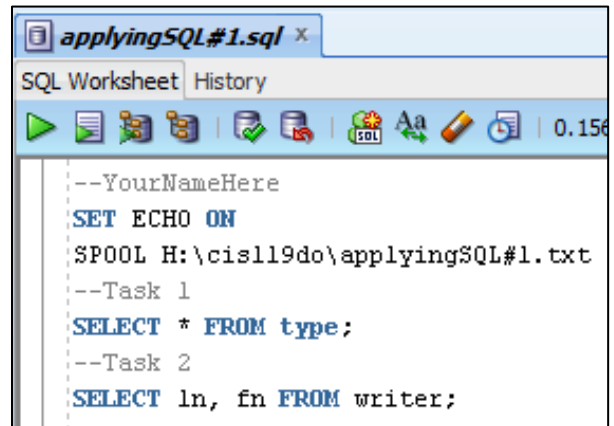
Applying SQL #1

(25 points • est. time 60 minutes)

Background

This assignment has you apply material we've seen in chapters 1-3 of our *Oracle SQL* text and the class notes. You will find it helpful to refer to the Issue25 and Student schema diagrams.

By the end of the assignment, you will have developed a script that resembles the illustration. The top three lines identify you and ensure your commands and results are written to a text file that you'll print and turn in for grading. The remaining lines are pairs... a *comment* to identify the task number and the SQL statement that accomplishes the task.




```
--YourNameHere
SET ECHO ON
SPOOL H:\cis119do\applyingSQL#1.txt
--Task 1
SELECT * FROM type;
--Task 2
SELECT ln, fn FROM writer;
```

Preliminaries

1. Launch *SQL Developer* and connect to our *cis119do* database.
2. Save your script (worksheet) to the **h:\cis119do** folder (if connected via mySCC) or to **c:\cis119do** (if connected via your own PC).
3. Enter the top three lines (comment with your name, **ECHO**, and **SPOOL**) and the comment for Task 1.

Tasks

Develop a statement for each task below. Build one statement at a time and use  (or F9) to run the new statement. Tweak your statement until it works correctly, then run and test again. If you get stuck, comment it out and move on to the next task. *Save your script frequently.*

1. Show the structure (i.e., column names, datatypes and nullability) of the **ARTICLE** table.
2. Show the title, type and length of each article.
3. Show the title, type and length for law articles only.
4. Show the title, type and length for only law articles that are also longer than 1650 words.
5. Show each article's title, issue and length sorted with the longest article on top for only business or political or law articles.
6. 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.
7. Show the course number, description and cost of any course that does not have a prerequisite.

8. Display the course number, description and cost of any course that has **Java** anywhere within its description. Use *wildcard(s)* to accomplish this.
9. Show a *nonduplicated* list of locations where the sections of course number 120 are scheduled.
10. 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.
11. The department chair has just learned that the elevator door in the L building's 5th floor is not functioning. This is problematic because instructors 102 and 107 were in an auto accident last week and both are on crutches! 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.

Wrap Up

1. Save your final script.
2. Run your final script.
3. Open your spooled text file in a word processor. Confirm that your name appears in the first line. Change the font to Courier New and font size to 8 or 10 points.
4. Save and **print** your spooled text file.