

Lab 1

COEN 178 Intro to Database Systems

Contact Info

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Office Hours: Thursday 10:30 -12:30PM

[Zoom Link](#)

Goal For Lab 1

- Learn how to log in through sqlplus
- Learn how to run basic SQL commands
- Learn how to run SQL files

Turn In

Submit (due at beginning of next lab):

1. A .log file containing the log of your correct queries and their output
2. A .sql file containing the commands for each part of the lab (can exclude those given by lab doc)
3. A .txt (or .doc/.docx/.pdf) file containing your answers for the lab questions

Recommend: Write down the sql queries in a .sql file as you go through the lab. Then at the end create a .lst file and run the sql files you created

Demo: Show me your files and database

Login to SQLPlus

- setup oracle
 - Need to do every time
- sqlplus<username>@db11g
- “password” to change password

Key commands

- `spool logfile.log`
 - Captures commands you enter and their output
- `spool off`
 - Ends log
- `start file.sql`
 - Runs sql queries in file

SQL

- Case insensitive
 - Style is SQL keywords in UPPERCASE: `SELECT name FROM users;`
- Need to end statements in a ;
- Can put queries across multiple lines
- Common Types of queries
 - `SELECT` attributes, that, you, want `FROM` tablename;
 - `INSERT INTO` table `VALUES` (value1, value2, value3)
 - Inserts a single row

SQL (continued)

```
CREATE TABLE tablename (  
    column1 VARCHAR(20),  
    column2 NUMBER(10,2)  
);  
  
DROP TABLE tablename;
```


Transactions

- All commands are done in a transaction
- Must "COMMIT;" operations in order to make them permanent
- You WILL lose progress if you disconnect without committing
- Creating .sql files also helps with this in case you lose connection or forget to commit