

## SQL

### Objectives

- Write SQL statements.

### Assignment

Download the file for this HW and submit a .sql file answering the following questions.

### Requirements

First setup the database. Go to the directory where you downloaded the file (where HW3-populate.sql is). Log in to mysql (*hint*: you may need to start up mysqld).

```
show databases;
create database HW3;
show databases;
use HW3;
show tables;
source HW3-populate.sql
show tables;
```

Create a text file named Firstname\_Lastname\_HW3.sql with your SQL statement answers for the following as a working .sql file (can do: source Firstname\_Lastname\_HW3.sql):

1. List all state names and their 2-letter codes.
2. Write a query to report the information for all counties whose names start with "Prince". (*Hint*: Use "like").  
Output columns: name, statecode, populate\_1950, population\_2010  
Order by state code.
3. Write a single query to list only the population in year 2010 for the state represented by Sen. Richard Lugar.  
Output column: populate\_2010
4. Write a single query to report only the total number of the counties in 'Maryland'. The query should not hard-code the state code for Maryland (join the two tables in the WHERE clause)
5. Write a single query to find the name of the state that was admitted last into the union.  
Hint: Use nested subquery.
6. Find all democratic (i.e., with affiliation = 'D') senators that are not chairman of any committee or sub-committee.  
Output columns: name  
Order by name.

### Submission

1. Submit a .PDF file named **Firstname\_Lastname\_HW3.sql**

