Dealing with the glue system

## Introduction to Oracle

- Log onto grace system
  - ssh glue.umd.edu
  - ssh linux.glue.umd.edu
- Go into the class directory
  - cd /afs/glue.umd.edu/class/spring2014/cmsc/424/0201
- Go into public directory cd public/Mondial\_dataset
- Start oracle tap oraclient
  - Your SID is 'dbclass1'
- Start sqlplus sqlplus
- Enter user name and password that were emailed to you
- To change your password
  - alter user <username> identified by <pass>;

## Load tables

- Copy Mondial\_dataset from public directory to your own
  - cp -r ../../public/Mondial\_dataset .cd Mondial\_dataset
- Start sqlplus
  - sqlplus
- Create tables
  - @ create
- Load data
  - @ data
- If you need to trash everything
  - @ drop

## **Basic Query Structure**

A typical SQL query has the form:

select  $A_1, A_2, ..., A_n$ from  $r_1, r_2, ..., r_m$ where P

- A, represents an attribute
- $-R_i$  represents a relation
- − *P* is a predicate.
- The result of an SQL query is a relation.

## Sample queries

Find the country code for the United States
SELECT code
FROM country
WHERE name = 'United States'

Find the population of the United States

SELECT population

FROM country

WHERE code = 'USA'

Find countries that border the United States

SELECT country1

FROM borders

WHERE country2 = 'USA'