CSCB20
UTSC
Worksheet 3

February 11, 2018

1. Write the following queries based on the database schema:

   ```
   Classes(class, type, country, numGuns, bore, displacement)
   Ships(name, class, launched)
   Battles(name, date)
   Outcomes(ship, battle, result)
   ```

   (a) Find the class name and country for all classes with atleast 10 guns

   (b) Find the names of all ships launched prior to 1918 but call the resulting column `shipName`

   (c) Find the names of ships sunk in battle and the name of the battle in which they were sunk

   (d) Find all ships that have the same name as their class

   (e) Find the names of all ships that begin with the letter "R"

   (f) Find the ships heavier than 35,000 tons

   (g) List the name, displacement and number of guns of the ships engaged in the battle of Guadalcanal

   (h) List all the ships mentioned in the database. (Remember that all these ships may not appear in the `Ship` relation)

   (i) Find those countries that have both battleships and battlecruisers

   (j) Find those ships that were damaged in one battle, but later fought in another

   (k) Find those battles with atleast three ships of the same country