

CSCB20

UTSC

Worksheet 2

January 21, 2019

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