

Student Name:

**CS3431: Database Systems I
C-Term 2013, Quiz 3**

ShipClass(name, type, country, numGuns, designYear, weight) --- Call it S

WarShips(shipName, className, builtYear) ---- Call it W

Missions(missionName, date) ----- Call it M

Results(shipName, missionName, status) ---- Call it R

Write the algebraic expression and the SQL Select statement for the following queries

Q1: Report the WarShips information (name, class, builtyear) from USA.

Q2: Report ship name for ships that were 'ok' in one mission, but later 'damaged' in another.

Hint: assume damaged ones do not participate again in missions.

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Q3: Report the Warships names that ‘sunk’ within 2 years from its first mission

Hint: Assume the date field is of type “Date” where you can apply Max() and Min() functions. The most recent date is always the maximum. Also assume Years(date1, date2) should return the number of years between the two dates.

Q4: Report the warships names that participated in more than 3 missions. Report the name and count sorted by the name.