Answer the following questions in both relational algebra and SQL. The SQL must match the Relational Algebra. You can only use the operators discussed in class today. Assume the following schema: Classes(<u>class</u>, type, country, numGuns, bore, displacement) Ships(ship, class, launched) Battles(battle, date) Outcomes(ship, battle, result) a) List the class name and country for all classes with at least 10 guns. Tclass, country humans>=10 Classes select class, country from Classes where nungues >= 10; b) List the ships (entire tuples) launched before 1918 (attribute launched is a year) Tambed < 1918 Ships Also valid IT ship Tourded < 1918 Ships select * from Ships where launched < 1918; c) List all the ships (entire tuples) that have the same name (attribute *ship*) as their class Ship = class Ships select + tom Ships where ship = class d) List the ship and class of ships that where sunk (result = 'sunk')/ Thip, class Oship IN (Thip Oreal#='sunk' 0) S select ship, class from Ships where ship IN (select ship from Outcomes real #='sunk');

Date:

Name 1: Name 2: