

# COMP 3311: Database Management Systems

## Lecture 8 Exercises SQL Queries

Sailor(sailorId, sName, rating, age)

Reserves(sailorId, boatId, rDate)

Boat(boatId, bName, color)

**Exercise 1:** Find name and the number of reservations for each red boat.

**Exercise 2:** Find the sailor id and number of reservations made for each sailor.

**Exercise 3:** Find the records (tuples) of the sailors with the highest rating.

**Exercise 4:** Find the names of sailors who have reserved a red boat. **Do not use join; use only set membership.**

Name: (1) \_\_\_\_\_ / \_\_\_\_\_ Student#: (1) \_\_\_\_\_ Date: \_\_\_\_\_  
Last/Family (PRINT) Given/First (PRINT)

Name: (2) \_\_\_\_\_ / \_\_\_\_\_ Student#: (2) \_\_\_\_\_  
Last/Family (PRINT) Given/First (PRINT)

**NOTE:** You are highly encouraged to do this exercise with a partner.

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#### SQL Queries

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Reserves(sailorId, boatId, rDate)

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**Exercise 5:** Find the ratings and the average age of the ratings where a rating's average age is equal to the minimum average age of all ratings.

**Exercise 6:** Find the boat name and number of reservations made for each boat. **Do not create any derived tables.**

**Exercise 7:** Find the age of the youngest adult sailor (i.e.,  $\text{age} \geq 18$ ) for each rating for which there are at least 2 adult sailors (i.e., 2 sailors whose age is  $\geq 18$ ) with the same rating. **Do not create any derived tables.**