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 the boat 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.**

Do not upload this exercise sheet to Canvas.

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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NOTE: Use only SQL constructs discussed in the lectures to answer these queries.

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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 use any subqueries. Do not create any derived tables.**

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

You must upload this completed exercise sheet to Canvas by **11 p.m. today.**