

DSAA 5012: Advanced Database Management for Data Science

Lecture 7 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.**

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.

DSAA 5012: Advanced Database Management for Data Science

Lecture 7 Exercises SQL Queries

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

Sailor(sailorId, sName, rating, age)

Reserves(sailorId, boatId, rDate)

Boat(boatId, bName, color)

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 \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.**

Upload this completed exercise worksheet to Canvas by 11 p.m. Feb 24th.