

DSAA 5012: Advanced Database Management For Data Science

Lecture 5 Exercises Relational Algebra

Sailor(sailorId, sName, rating, age) Reserves(sailorId, boatId, rDate) Boat(boatId, bName, color)

Exercise 1: Find the ids of sailors who have reserved boat 103.

Exercise 2: Find the names of sailors who have reserved boat 103.

Exercise 3: Find the names of sailors who have reserved a red boat.

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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Sailor(sailorId, sName, rating, age) Reserves(sailorId, boatId, rDate) Boat(boatId, bName, color)

Exercise 4: Find the names of sailors who have reserved either a red or a green boat.

Exercise 5: Find the names of sailors who have reserved both a red and a green boat.

Exercise 6: Find the ids of sailors who have made at least two reservations on the same date. [Hint: You need to join Reserves with itself.]

Upload this completed exercise worksheet to Canvas by 11 p.m. tomorrow (Feb 17th).