9.3 Module Exercise: Sailors Activity

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Directions: Complete Sailors Examples 1–3 in the Group BY-Having-Order by Exs resource. Please complete this activity prior to the live session, if possible.

Sailors Example 1:

Total number of unique sailors who has reserved each boat (ordered in descending order), displaying the count, boat name and boat id?

SELECT COUNT(DISTINCT(sid)) AS sCount, bname, Reserves.bid

FROM Reserves

JOIN Boats ON Reserves.bid = Boats.bid

GROUP BY Reserves.bid

ORDER BY COUNT(DISTINCT(sid)) DESC

Sailors Example 2:

Average age of sailors who have reserved each boat (using bname), showing boat name, bid, and the average age. Order results by bid.

SELECT bname, Reserves.bid, AVG(Sailors.age) AS avg_age
FROM Reserves
JOIN Boats ON Reserves.bid = Boats.bid
JOIN Sailors ON Reserves.sid = Sailors.sid
GROUP BY Reserves.bid
ORDER BY Reserves.bid DESC

Sailors Example 3:

In addition, **only show bnames where the average age of sailors who have reserved that boat is > 35 years old**.

SELECT bname, bid, avg_age

FROM

       (SELECT bname, Reserves.bid, AVG(Sailors.age) AS avg_age

       FROM Reserves

       JOIN Boats ON Reserves.bid = Boats.bid

       JOIN Sailors ON Reserves.sid = Sailors.sid

       GROUP BY Reserves.bid

       ORDER BY Reserves.bid DESC)

WHERE avg_age > 35