CREATE TABLE Sailor (

sid INTEGER,

sname VARCHAR(20),

rating INTEGER,

age REAL);

INSERT INTO Sailor VALUES (22, 'Dustin', 7, 45.0);

INSERT INTO Sailor VALUES (29, 'Brutus', 1, 33.0);

INSERT INTO Sailor VALUES (31, 'Lubber', 8, 55.5);

INSERT INTO Sailor VALUES (32, 'Andy', 8, 25.5);

INSERT INTO Sailor VALUES (58, 'Rusty', 10, 35.0);

INSERT INTO Sailor VALUES (64, 'Horatio', 7, 35.0);

INSERT INTO Sailor VALUES (71, 'Zorba', 10, 16.0);

INSERT INTO Sailor VALUES (74, 'Horatio', 9, 35.0);

INSERT INTO Sailor VALUES (85, 'Art', 3, 25.5);

INSERT INTO Sailor VALUES (95, 'Bob', 3, 63.5);

CREATE TABLE Boat (

bid INTEGER,

bname VARCHAR(20),

color VARCHAR(20)

);

INSERT INTO Boat VALUES (101, 'Interlake', 'blue');

INSERT INTO Boat VALUES (102, 'Interlake', 'red');

INSERT INTO Boat VALUES (103, 'Clipper', 'green');

INSERT INTO Boat VALUES (104, 'Marine', 'red');

CREATE TABLE Reserves (

sid INTEGER,

bid INTEGER,

day DATE

);

INSERT INTO Reserves VALUES (22, 101, '10/10/98');

INSERT INTO Reserves VALUES (22, 102, '10/10/98');

INSERT INTO Reserves VALUES (22, 103, '10/8/98');

INSERT INTO Reserves VALUES (22, 104, '10/7/98');

INSERT INTO Reserves VALUES (31, 102, '11/10/98');

INSERT INTO Reserves VALUES (31, 103, '11/6/98');

INSERT INTO Reserves VALUES (31, 104, '12/12/98');

INSERT INTO Reserves VALUES (64, 101, '9/5/98');

INSERT INTO Reserves VALUES (64, 102, '9/8/98');

INSERT INTO Reserves VALUES (74, 103, '9/8/98');

SELECT sname, age

FROM Sailor;

SELECT \*

FROM Sailor

WHERE rating > 7;

UPDATE Sailor

SET rating = rating \* 1.1

WHERE age < 40;

select \* from sailor;

UPDATE Sailor

SET rating = rating + 2

WHERE sid IN (SELECT sid FROM Reserves WHERE day = '11-10-98');

DELETE FROM Sailor

WHERE rating < 3 AND age > 60;

UPDATE Sailor

SET sname = NULL

WHERE sid IN (SELECT sid FROM Reserves WHERE bid = 102);

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SELECT UPPER(Sailor.sname) AS UpperCaseName

FROM Sailor

JOIN Reserves ON Sailor.sid = Reserves.sid

JOIN Boat ON Reserves.bid = Boat.bid

WHERE Boat.bname = 'Interlake';

SELECT rating

FROM Sailor

WHERE UPPER(sname) LIKE '%US%';

SELECT AVG(age) AS AverageAge

FROM Sailor

WHERE rating = 8;

SELECT COUNT(\*) AS SailorCount

FROM Sailor

WHERE rating > 5;

SELECT

day AS ReservationDate,

ADD\_MONTHS(day, 2) AS AddedTwoMonths

FROM

Reserves

WHERE

bid = 101 AND sid = 64;

Find the months between date 12/02/2021 and system current date.

SELECT MONTHS\_BETWEEN(SYSDATE, TO\_DATE('12/02/2021', 'MM/DD/YYYY')) AS MonthsDifference

FROM dual;

SELECT

Boat.bname AS BoatName,

EXTRACT(MONTH FROM Reserves.day) AS ReservationMonth

FROM Reserves

JOIN Boat ON Reserves.bid = Boat.bid;

SELECT ABS(rating) AS AbsoluteRating

FROM Sailor;

SELECT SIGN(rating) AS SignRating

FROM Sailor;

SELECT POWER(rating, 2) AS PowerRating

FROM Sailor;

SELECT ROUND(15.67, 1) AS rounded\_value FROM dual;

SELECT MOD(15, 4) AS modulo\_result FROM dual;

SELECT FLOOR(rating) AS FloorRating FROM Sailor;

SELECT CEIL(rating) AS CeilRating FROM Sailor;

SELECT TRUNC(rating) AS TruncatedRating FROM Sailor;

SELECT sname, SQRT(age) AS SquareRootOfAge

FROM Sailor;

SELECT TO\_CHAR(day, 'DD-Mon-YYYY') AS FormattedReservationDate

FROM Reserves;

SELECT MIN(rating) AS MinRating, MAX(rating) AS MaxRating

FROM Sailor;

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SELECT sname, age

FROM Sailor

WHERE UPPER(sname) LIKE 'B%B' AND LENGTH(sname) >= 3;

SELECT sname, age

FROM Sailor

WHERE sname LIKE 'A%' OR sname LIKE 'L%';

SELECT sname, age

FROM Sailor

WHERE rating > 7 AND age BETWEEN 33 AND 45;

SELECT s.sname, s.age

FROM Sailor s

WHERE NOT EXISTS (

SELECT 1

FROM Reserves r

WHERE r.sid = s.sid AND r.day = TO\_DATE('10/10/98', 'MM/DD/YY')

);

SELECT sname, age

FROM Sailor

WHERE sid IN (SELECT sid FROM Reserves WHERE bid = 103);

SELECT sname, age

FROM Sailor s

WHERE EXISTS (

SELECT 1

FROM Reserves r

WHERE r.sid = s.sid AND r.bid = 103

);