

SHIP DATABASE

TABLE NAME: SAILORS

SID	SNAME	RATINGS	AGE
S21	HARI	4	21
S22	RAKESH	5	24
S23	VEERU	4	45
S24	RAHUL	3	33
S25	RAMU	3	30

TABLE NAME: BOATS

BID	BNAME	COLOUR
B101	B1	WHITE
B102	B2	RED
B103	B3	WHITE
B104	B4	BLUE

TABLE NAME : RESERVES

SID	BID	DAY
S21	B101	2024-12-03
S24	B103	2024-12-05
S23	B104	2024-12-03
S21	B101	2024-12-10

QUESTIONS

List the sailors and the dates on which they reserved boats.

Query:

```
SELECT S.SNAME, R.DAY
FROM SAILORS S
JOIN RESERVES R ON S.SID = R.SID;
```

Retrieve the names of boats and their colors for all reservations.

Query:

```
SELECT B.BNAME, B.COLOUR
FROM BOATS B
JOIN RESERVES R ON B.BID = R.BID;
```

Find the names of sailors and the IDs of the boats they reserved.

Query:

```
SELECT S.SNAME, R.BID
FROM SAILORS S
JOIN RESERVES R ON S.SID = R.SID;
```

List the boat names along with the names of sailors who reserved them.

Query:

```
SELECT B.BNAME, S.SNAME
FROM BOATS B
JOIN RESERVES R ON B.BID = R.BID
JOIN SAILORS S ON R.SID = S.SID;
```

Retrieve the details of sailors and boats they reserved.

Query:

```
SELECT S.SNAME, S.AGE, B.BNAME, B.COLOUR
FROM SAILORS S
JOIN RESERVES R ON S.SID = R.SID
JOIN BOATS B ON R.BID = B.BID;
```

Retrieve the names of sailors and the colors of boats they have reserved.

Query:

```
SELECT S.SNAME, B.COLOUR
FROM SAILORS S
JOIN RESERVES R ON S.SID = R.SID
JOIN BOATS B ON R.BID = B.BID;
```

Find the sailors who reserved white boats.

Query:

```
SELECT S.SNAME
FROM SAILORS S
JOIN RESERVES R ON S.SID = R.SID
JOIN BOATS B ON R.BID = B.BID
WHERE B.COLOUR = 'WHITE';
```

Retrieve the names of boats along with the total number of reservations made for each.

Query:

```
SELECT B.BNAME, COUNT(R.SID) AS TOTAL_RESERVATIONS
FROM BOATS B
LEFT JOIN RESERVES R ON B.BID = R.BID
GROUP BY B.BNAME;
```

Find sailors older than 30 who reserved red boats.

Query:

```
SELECT S.SNAME
FROM SAILORS S
JOIN RESERVES R ON S.SID = R.SID
JOIN BOATS B ON R.BID = B.BID
WHERE S.AGE > 30 AND B.COLOUR = 'BLUE';
```

Retrieve the details of sailors who reserved a boat on '2024-12-03'.

Query:

```
SELECT S.SNAME, S.RATINGS, B.BNAME, B.COLOUR
FROM SAILORS S
JOIN RESERVES R ON S.SID = R.SID
JOIN BOATS B ON R.BID = B.BID
WHERE R.DAY = '2024-12-03';
```