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### Assignment08 DML

```
2  -- 1. Find the sailors who get rating greater than 5 and is over than 30 years old
```

```
3  • SELECT sname
```


```
4  FROM sailors
```

```
5  WHERE rating > 5.0 AND age > 30;
```

```
6
```

```
7
```

```
8  -- 2 Find the names of sailors who have reserved boat 104
```

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	sname
▶	Dustin
	Lubber
	Rusty
	Horatio
	Horatio

```
7
```

```
8  -- 2. Find the names of sailors who have reserved boat 104.
```

```
9  • SELECT sname
```

```
10 FROM Sailors
```

```
11 WHERE sid IN (SELECT sid FROM Reserves WHERE bid = 104);
```

```
12
```

```
13 -- 3. Find the names of sailors who have reserved a red boat
```

```
14 • SELECT sname
```

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	sname
▶	Dustin
	Lubber

```

13  -- 3. Find the names of sailors who have reserved a red boat
14  • SELECT sname
15  FROM Sailors
16  WHERE sid IN (SELECT sid FROM Reserves R JOIN Boats B ON R.bid = B.bid WHERE B.color = 'red');
17
18  -- 4. Find the colors of boats reserved by Lubber
19  • SELECT DISTINCT B.color
20  FROM Boats B

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	sname
▶	Dustin
	Lubber
	Horatio

```

--
18  -- 4. Find the colors of boats reserved by Lubber
19  • SELECT DISTINCT B.color
20  FROM Boats B
21  JOIN Reserves R ON B.bid = R.bid
22  JOIN Sailors S ON R.sid = S.sid
23  WHERE S.sname = 'Lubber';
24

```



Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	color
▶	red
	green

```

25  -- 5. Find the names of sailors who have reserved at least one boat.
26  • SELECT DISTINCT sname
27  FROM Sailors
28  WHERE sid IN (SELECT sid FROM Reserves);
29
30  -- 6. Find the names of sailors who have reserved a red or a green boat
31  • SELECT DISTINCT S.sname
32  FROM Sailors S
33  JOIN Reserves R ON S.sid = R.sid

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

	sname
▶	Dustin
	Lubber
	Horatio

```

30 -- 6. Find the names of sailors who have reserved a red or a green boat
31 • SELECT DISTINCT S.sname
32 FROM Sailors S
33 JOIN Reserves R ON S.sid = R.sid
34 JOIN Boats B ON R.bid = B.bid
35 WHERE B.color IN ('red', 'green');
36

```



Result Grid  Filter Rows:  Export:  Wrap Cell Content: 

sname
▶ Dustin
Lubber
Horatio

```

37 -- 7. Find the names of sailors who have reserved a red and a green boat.
38 • SELECT sname
39 FROM Sailors
40 WHERE sid IN (
41     SELECT sid
42     FROM Reserves
43     JOIN Boats ON Reserves.bid = Boats.bid
44     WHERE color = 'red'
45 ) AND sid IN (
46     SELECT sid
47     FROM Reserves
48     JOIN Boats ON Reserves.bid = Boats.bid
49     WHERE color = 'green'
50 );
51

```




Result Grid  Filter Rows:  Export:  Wrap Cell Content: 

sname
▶ Dustin
Lubber

```

52 -- 8. Find the names of sailors who have reserved at least two boats.
53 • SELECT sname
54 FROM Sailors
55 WHERE sid IN (
56     SELECT sid
57     FROM Reserves
58     GROUP BY sid
59     HAVING COUNT(*) >= 2
60 );
61
62 -- 9. Find the names of sailors with age over 20 who have not reserved a red boat.
63 • SELECT sname

```



Result Grid  Filter Rows:  Export:  Wrap Cell Content: 

sname
▶ Dustin
Lubber
Horatio

```

62  -- 9. Find the names of sailors with age over 20 who have not reserved a red boat.
63  • SELECT sname
64  FROM Sailors
65  WHERE age > 20 AND sid NOT IN (
66      SELECT sid
67      FROM Reserves
68      JOIN Boats ON Reserves.bid = Boats.bid
69      WHERE color = 'red'
70  );
71
72  -- 10. Find the names of boat that is reserved by Dustin but not by Lubber.
73  • SELECT b.Bname
74  FROM Boats b
75  JOIN Reserves r ON b.bid = r.bid

```





Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

sname
Brutus
Andy
Rusty
Horatio
Art
Bob

```

72  -- 10. Find the names of boat that is reserved by Dustin but not by Lubber.
73  • SELECT b.Bname
74  FROM Boats b
75  JOIN Reserves r ON b.bid = r.bid
76  JOIN Sailors s ON r.sid = s.sid
77  WHERE s.sname = 'Dustin' AND b.bid NOT IN (
78      SELECT r1.bid
79      FROM Reserves r1
80      JOIN Sailors s1 ON r1.sid = s1.sid
81      WHERE s1.sname = 'Lubber'
82  );
83
84

```

Result Grid   Filter Rows:  Export:  Wrap Cell Content: 

Bname
Interlake