OUTPUTS:

1. **Display the details of all sailors who are of 50 years of age**

```
mysql> Select * from SAILOR_72 where Age=50;
+-----+-------+--------+-----+
| SID | SNAME | RATING | AGE |
+-----+-------+--------+-----+
| 298 | JOHN  |     50 |  50 |
+-----+-------+--------+-----+
1 row in set (0.52 sec)
```

2. **Display the details of boats which are of red color**

```
mysql> Select * from BOAT_72 where color='red';
+-----+-----------+-------+
| BID | BNAME     | COLOR |
+-----+-----------+-------+
|  22 | Blue Moon | red   |
|  44 | Destiny   | red   |
|  66 | Freedom   | red   |
+-----+-----------+-------+
3 rows in set (0.11 sec)
```

3. Display details of all other boats that are of the same color as that of boat having BID=1;

```
mysql> Select * from BOAT_72 where color=(Select color from BOAT_72 where BID=11);
+-----+------------+-------+
| BID | BNAME      | COLOR |
+-----+------------+-------+
|  11 | Apollo     | blue  |
|  77 | Gemma      | blue  |
|  99 | EvilSpirit | blue  |
+-----+------------+-------+
3 rows in set (0.09 sec)
```

4. Display which color of boats are more than the number of boats of green color.

```
mysql> Select color,count(*) AS 'no_of_boats' from BOAT_72 HAVING count(*) > (Select
count(*) from BOAT_72 where color = 'green');
+-------+-------------+
| color | no_of_boats |
+-------+-------------+
| blue  |          10 |
+-------+-------------+
1 row in set (0.14 sec)
```

5. Display the name of the eldest sailor

```
mysql> Select sname from SAILOR_72 where age = (Select max(age) from SAILOR_72);
+-------+
| sname |
+-------+
| JOHN  |
+-------+
```

6. Display the name of the youngest sailor

```
mysql> Select sname from SAILOR_72 where age = (Select min(age) from SAILOR_72);
+-------+
| sname |
+-------+
| A     |
| D     |
| G     |
+-------+
3 rows in set (0.00 sec)
```

7. Display the name and rating of the sailor who has the second highest Rating

```
mysql> Select sname,rating from SAILOR_72 where rating =(Select max(rating) from SAILOR_72
 where rating < (Select max(rating) from SAILOR_72));
+-------+--------+
| sname | rating |
+-------+--------+
| Maev  |     28 |
+-------+--------+
1 row in set (0.02 sec)
```

8. Display the name and rating of sailor with the third highest rating

```
mysql> Select sname,rating from SAILOR_72 where rating =(Select max(rating) from SAILOR_72
 where rating < (Select max(rating) from SAILOR_72 where rating < (Select max(rating) from
 SAILOR_72)));
+-------+--------+
| sname | rating |
+-------+--------+
| Eva   |     22 |
+-------+--------+
1 row in set (0.01 sec)
```

9. Display the sailors who have ratings greater than either sailor ‘SAM’, or ‘Ram’ or ‘Tina’

```
mysql> Select sname,rating from SAILOR_72 where rating > ANY(Select rating from SAILOR_72 where
sname IN('D','G','Maev'));
+-------+--------+
| sname | rating |
+-------+--------+
| A     |     10 |
| B     |     13 |
| C     |     12 |
| D     |      5 |
| E     |     12 |
| F     |      5 |
| H     |     12 |
| I     |     13 |
| J     |     20 |
| Maev  |     28 |
| Eva   |     22 |
| JOHN  |     50 |
+-------+--------+
12 rows in set (0.09 sec)
```

10. Display details of sailors who are elder than ‘Sam’ and ‘Ram’ and ‘Tina’

```
mysql> Select sname,age from SAILOR_72 where age > ALL(Select age from SAILOR_72 where sname IN
('C','H','J'));
+-------+-----+
| sname | age |
+-------+-----+
| Maev  |  28 |
| JOHN  |  50 |
+-------+-----+
2 rows in set (0.08 sec)
```

11. Display the details of the sailors whose rating is higher than the youngest sailor.

```
mysql> Select * from SAILOR_72 where rating >ALL(Select rating from SAILOR_72 where age In (Select
 min(age) from SAILOR_72));
+-----+-------+--------+-----+
| SID | SNAME | RATING | AGE |
+-----+-------+--------+-----+
|   2 | B     |     13 |  23 |
|   3 | C     |     12 |  24 |
|   5 | E     |     12 |  24 |
|   8 | H     |     12 |  22 |
|   9 | I     |     13 |  23 |
|  11 | J     |     20 |  24 |
|  20 | Maev  |     28 |  28 |
|  22 | Eva   |     22 |  22 |
| 298 | JOHN  |     50 |  50 |
+-----+-------+--------+-----+
9 rows in set (0.00 sec)
```

12. Display details of the boats that have been reserved

```
mysql> Select * from BOAT_72 where BID IN(Select BOAT_72.BID From BOAT_72 cross join reserves_72 WHERE
BOAT_72.BID=Reserves_72.bid);
+-----+------------+-------+
| BID | BNAME      | COLOR |
+-----+------------+-------+
|  22 | Blue Moon  | red   |
|  33 | Carpe Diem | green |
|  44 | Destiny    | red   |
|  55 | Encore     | green |
|  77 | Gemma      | blue  |
|  88 | Hakuna     | White |
|  99 | EvilSpirit | blue  |
+-----+------------+-------+
7 rows in set (0.00 sec)
```

13. Display the names of sailors who have not reserved any boats

```
mysql> Select * from SAILOR_72 WHERE SID NOT IN (Select SAILOR_72.SID FROM SAILOR_72 cross join Reserve
s_72 WHERE SAILOR_72.SID=Reserves_72.SID);
+-----+-------+--------+-----+
| SID | SNAME | RATING | AGE |
+-----+-------+--------+-----+
|   1 | A     |     10 |  20 |
|   6 | F     |      5 |  23 |
|  11 | J     |     20 |  24 |
|  20 | Maev  |     28 |  28 |
|  22 | Eva   |     22 |  22 |
| 298 | JOHN  |     50 |  50 |
+-----+-------+--------+-----+
6 rows in set (0.00 sec)
```

14. Display details of sailors who have reserved boats

```
mysql> Select * from SAILOR_72 WHERE SID IN (Select SAILOR_72.SID FROM SAILOR_72 cross join Reserves_72
 WHERE SAILOR_72.SID=Reserves_72.SID);
+-----+-------+--------+-----+
| SID | SNAME | RATING | AGE |
+-----+-------+--------+-----+
|   2 | B     |     13 |  23 |
|   3 | C     |     12 |  24 |
|   4 | D     |      5 |  20 |
|   5 | E     |     12 |  24 |
|   7 | G     |      4 |  20 |
|   8 | H     |     12 |  22 |
|   9 | I     |     13 |  23 |
+-----+-------+--------+-----+
7 rows in set (0.00 sec)
```

15. Display details of sailors who have reserved Green color boats.

```
mysql> Select * from SAILOR_72 where SID IN(Select SID from RESERVES_72 where BID IN
(Select BID from BOAT_72 where COLOR='green' and BID IN(Select BID from RESERVES_72)
));
+-----+-------+--------+-----+
| SID | SNAME | RATING | AGE |
+-----+-------+--------+-----+
|   3 | C     |     12 |  24 |
|   5 | E     |     12 |  24 |
+-----+-------+--------+-----+
2 rows in set (1.26 sec)

mysql> Select * from SAILOR_72 where SID IN(Select SID from RESERVES_72 where BID IN
(Select BID from BOAT_72 where COLOR='green' and BID =ANY(Select BID from RESERVES_7
2)));
+-----+-------+--------+-----+
| SID | SNAME | RATING | AGE |
+-----+-------+--------+-----+
|   3 | C     |     12 |  24 |
|   5 | E     |     12 |  24 |
+-----+-------+--------+-----+
2 rows in set (0.06 sec)
```

16. Display details of the boat/boats reserved by the sailor with the highest rating.

```
mysql> Select * from BOAT_72 where BID =ANY(Select BID from RESERVES_72 where SID IN
(Select SID from SAILOR_72 where RATING=(Select MAX(RATING) from SAILOR_72 WHERE SID
 IN(Select SID from RESERVES_72))));
+-----+------------+-------+
| BID | BNAME      | COLOR |
+-----+------------+-------+
|  22 | Blue Moon  | red   |
|  99 | EvilSpirit | blue  |
+-----+------------+-------+
2 rows in set (0.00 sec)
```

CONCLUSION: The Experiment to execute DQL SQL Statements were completed successfully.