DBMS LAB INTERNAL

SET - 2

Table 1: Sailors

- Primary Key: sid (integer)
- Columns: sid, sname, rating, age

Sample Data:

sid	sname	rating	age
22	Dustin	7	45
29	Brutus	1	33
31	Luffy	8	25
32	Nami	8	22
58	Zoro	10	28

Table 2: Boats

- Primary Key: bid (integer)
- Columns: bid, bname, color

Sample Data:

bid	bname	color
101	Boat1	Red
102	Boat2	Blue
103	Boat3	Green
104	Boat4	Blue
105	Boat5	Green

Table 3: Reserves

- Primary Keys: sid (references Sailors.sid), bid (references Boats.bid)
- Columns: sid, bid, day

Sample Data:

sid	bid	day
22	102	2023-06-20
29	104	2023-06-22
31	102	2023-06-22
32	105	2023-06-25
58	103	2023-06-27

1. Retrieve the names of all sailors in alphabetical order.

2. Retrieve the names of sailors who have a rating greater than 5.

3. Retrieve the names of sailors who have reserved a boat with bid=102.

4. Retrieve the number of boats reserved on each day.

5. Retrieve the sailors' names and the count of their reservations, sorted by the count of reservations in descending order.

6. Retrieve the colors of the boats and the number of reservations for each color.

7. Retrieve the sailors' names and the average age of the sailors who have a rating greater than 5.

8. Retrieve the sailors' names who have reserved a boat on the same day as sailor 'Luffy'.

```
mysql> select sname,c from sailors ,(select rating as r ,avg(age) as c from sailors group by
rating having rating>5) n where sailors.rating=n.r ;
+---------+--------------------+
| sname   | c                  |
+---------+--------------------+
| Dustin  |                 40 |
| Lubber  |               40.5 |
| Andy    |               40.5 |
| Rusty   | 28.666666666666668 |
| horatio |                 40 |
| zorba   | 28.666666666666668 |
| Horatio | 28.666666666666668 |
+---------+--------------------+
7 rows in set (0.00 sec)
```