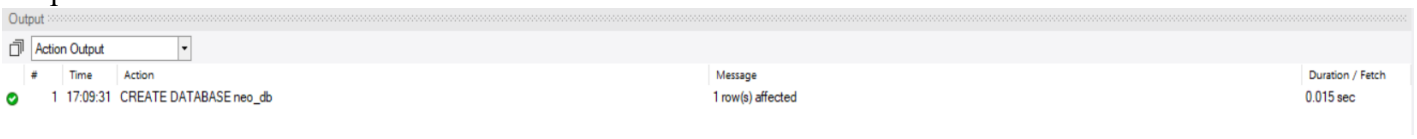
1. Question: Create a database

SQL Query: create database neo_db;

Output:

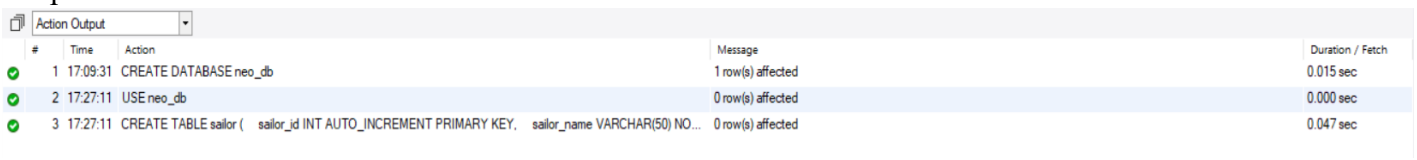


2. Question: Create a table as name as sailor

SQl Query: use neo_db;

```
create table sailor (
    sailor_id int auto_increment primary key,
    sailor_name varchar(50) not null,
    rating int,
    age real
);
```

Output:

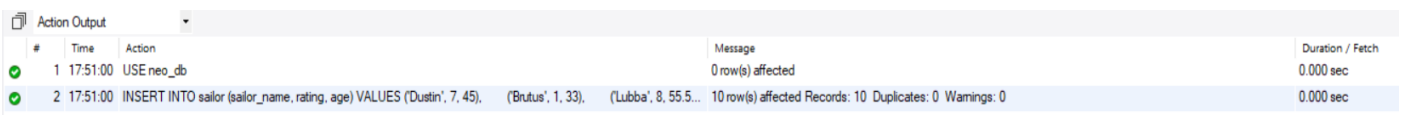


3. Question: Insert the values into sailor table

SQL Query: use neo_db;

```
insert into sailor (sailor_name, rating, age)
values ('Dustin', 7, 45), ('Brutus', 1, 33),
('Lubba', 8, 55.5), ('Andy',8,25),
('Rusty',10,35), ('Hortatio',7,35),
('Zorba',10,16), ('Hortatio',9,35),
('Alex',3,25.5), ('Bob',3,63.5);
```

Output:



4. Question: Create a table name as boat

SQL Query: create table boat (

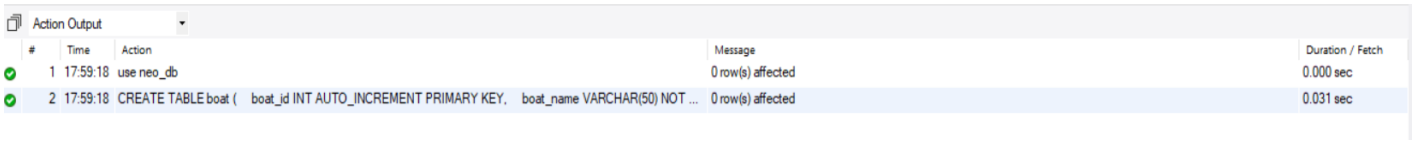
boat_id int auto_increment primary key,

boat_name varchar(50) not null,

color varchar(50),

);

Output:



Action Output

#	Time	Action	Message	Duration / Fetch
1	17:59:18	use neo_db	0 row(s) affected	0.000 sec
2	17:59:18	CREATE TABLE boat (boat_id INT AUTO_INCREMENT PRIMARY KEY, boat_name VARCHAR(50) NOT ...	0 row(s) affected	0.031 sec

5. Question: Insert the values into boat table.

SQL Query: use neo_db;

insert into boat (boat_name, color)

values

('Sea Breeze', 'Blue'), ('Ocean Pearl', 'White'),

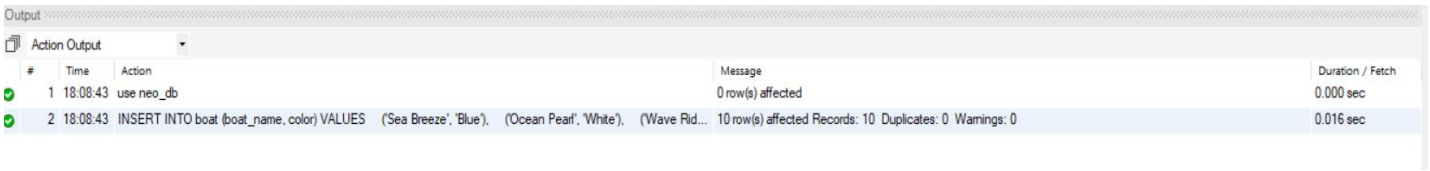
('Wave Rider', 'Red'), ('Golden Sail', 'Yellow'),

('Storm Breaker', 'Black'), ('Silver Arrow', 'Gray'),

('Coral Queen', 'Pink'), ('Emerald Tide', 'Green'),

('Sunset Voyager', 'Orange'), ('Midnight Star', 'Purple');

Output:



Output

Action Output

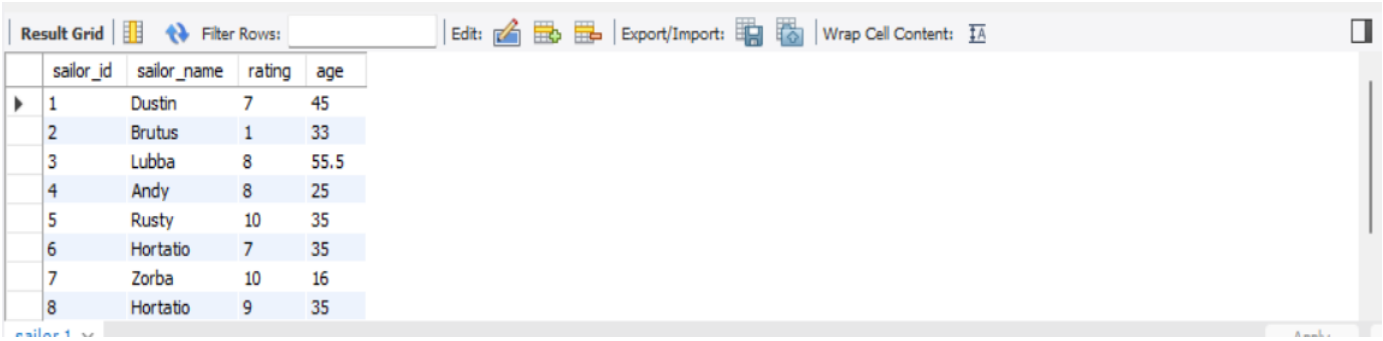
#	Time	Action	Message	Duration / Fetch
1	18:08:43	use neo_db	0 row(s) affected	0.000 sec
2	18:08:43	INSERT INTO boat (boat_name, color) VALUES ('Sea Breeze', 'Blue'), ('Ocean Pearl', 'White'), ('Wave Rid...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0	0.016 sec

6. Question : View the sailor table

SQL Query: use neo_db;

select * from sailor;

Output:



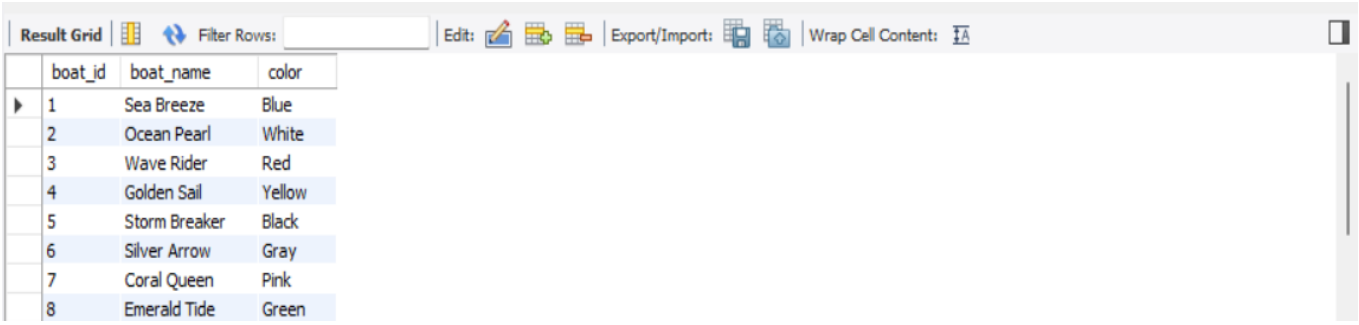
sailor_id	sailor_name	rating	age
1	Dustin	7	45
2	Brutus	1	33
3	Lubba	8	55.5
4	Andy	8	25
5	Rusty	10	35
6	Hortatio	7	35
7	Zorba	10	16
8	Hortatio	9	35

7. Question: View the boat table

SQL Query: use neo_db;

select * from boat;

Output:



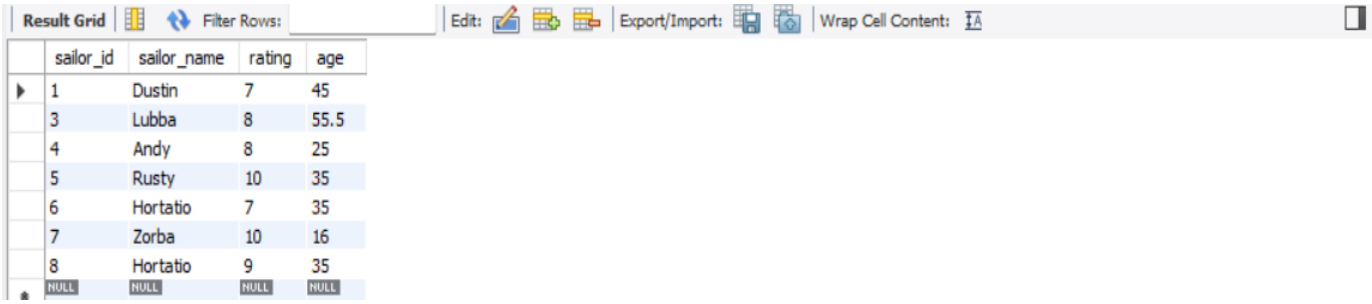
boat_id	boat_name	color
1	Sea Breeze	Blue
2	Ocean Pearl	White
3	Wave Rider	Red
4	Golden Sail	Yellow
5	Storm Breaker	Black
6	Silver Arrow	Gray
7	Coral Queen	Pink
8	Emerald Tide	Green

8. Question: Display all sailors whose rating is greater than 5.

SQL Query: use neo_db;

select * from sailor where rating > 5;

Output:



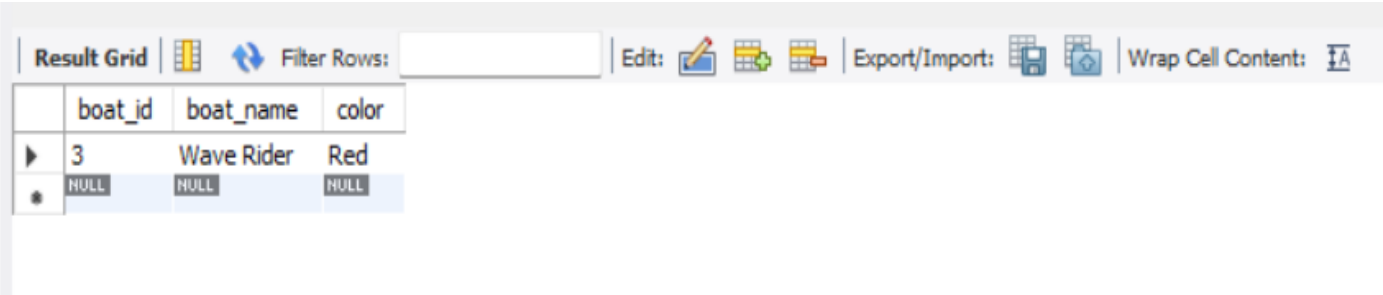
sailor_id	sailor_name	rating	age
1	Dustin	7	45
3	Lubba	8	55.5
4	Andy	8	25
5	Rusty	10	35
6	Hortatio	7	35
7	Zorba	10	16
8	Hortatio	9	35
NULL	NULL	NULL	NULL

9. Question: Display all boats whose color is red.

SQL Query: use neo_db;

select * from boat where color = ‘red’;

Output:



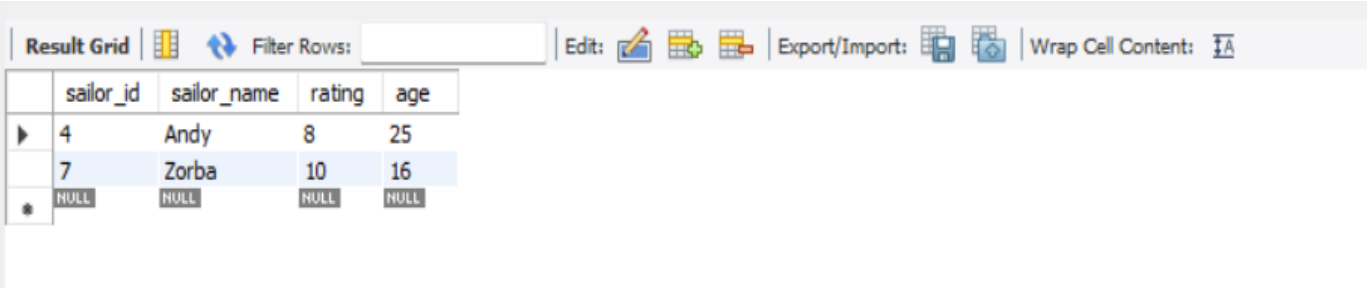
boat_id	boat_name	color
3	Wave Rider	Red
NULL	NULL	NULL

10. Question: Display all sailors whose rating is greater than 5 **and** age is less than 30.

SQL Query: use neo_db;

select * from sailor where rating > 5 and age <30;

Output:



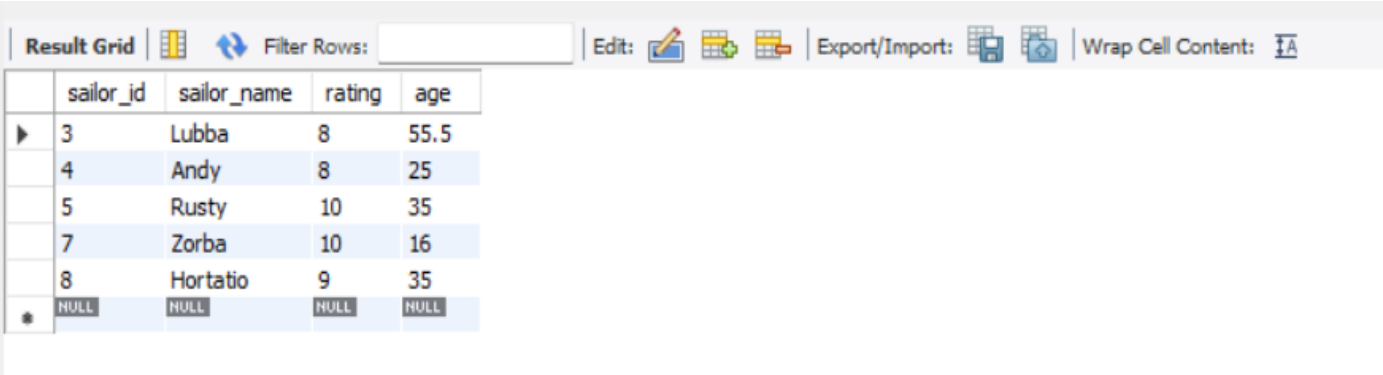
sailor_id	sailor_name	rating	age
4	Andy	8	25
7	Zorba	10	16
NULL	NULL	NULL	NULL

11. Question: Display all sailors whose rating is greater than 7 **or** age is less than 25.

SQL Query: use neo_db;

select * from sailor where rating > 7 or age < 25;

Output:



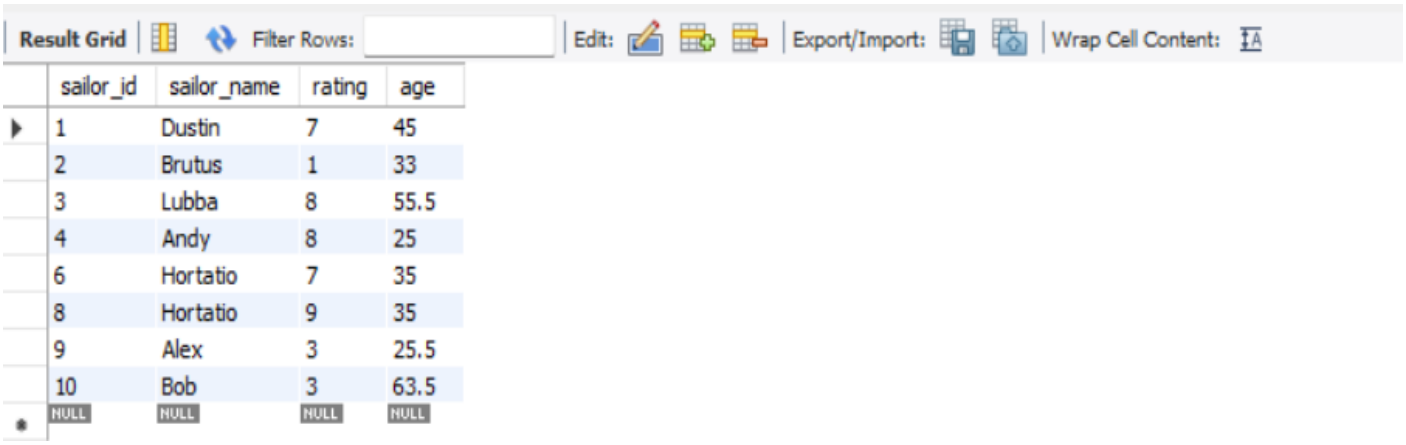
sailor_id	sailor_name	rating	age
3	Lubba	8	55.5
4	Andy	8	25
5	Rusty	10	35
7	Zorba	10	16
8	Hortatio	9	35
NULL	NULL	NULL	NULL

12. Question: Display all sailors whose rating is **not equal to 10**.

SQL Query: use neo_db;

select * from sailor where not rating = 10;

Output:



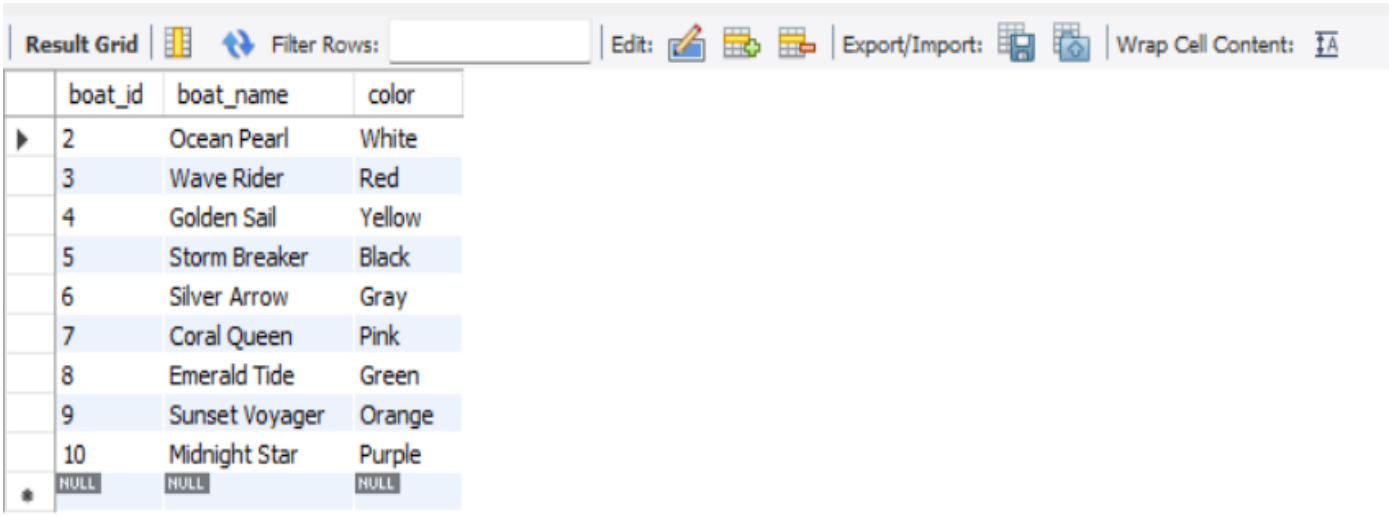
sailor_id	sailor_name	rating	age
1	Dustin	7	45
2	Brutus	1	33
3	Lubba	8	55.5
4	Andy	8	25
6	Hortatio	7	35
8	Hortatio	9	35
9	Alex	3	25.5
10	Bob	3	63.5
NULL	NULL	NULL	NULL

13. Question: Display all boats whose color is **not Blue**.

SQL Query: use neo_db;

select * from boat where not color = 'blue';

Output:



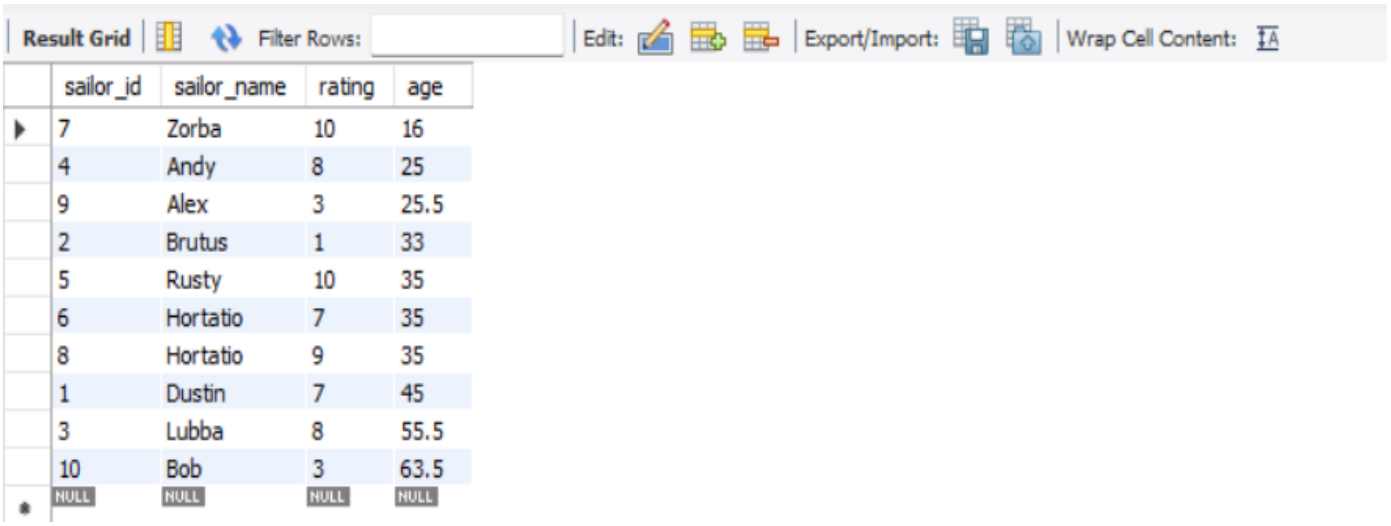
boat_id	boat_name	color
2	Ocean Pearl	White
3	Wave Rider	Red
4	Golden Sail	Yellow
5	Storm Breaker	Black
6	Silver Arrow	Gray
7	Coral Queen	Pink
8	Emerald Tide	Green
9	Sunset Voyager	Orange
10	Midnight Star	Purple
NULL	NULL	NULL

14. Question: Display all sailors sorted by **age in ascending order.**

SQL Query: use neo_db;

select * from sailor order by age asc;

Output:



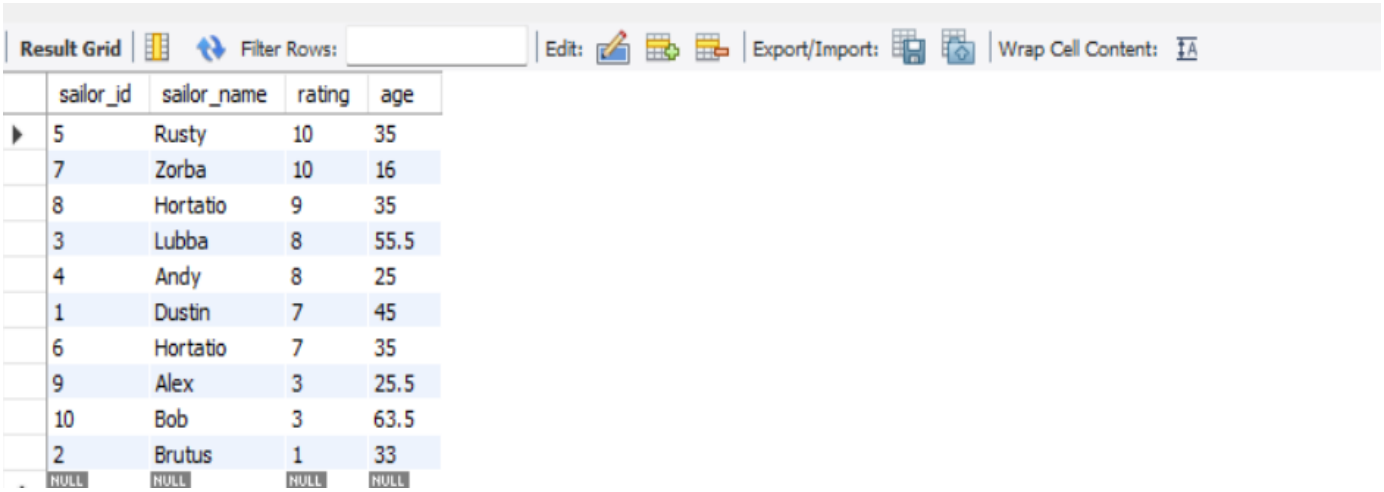
sailor_id	sailor_name	rating	age
7	Zorba	10	16
4	Andy	8	25
9	Alex	3	25.5
2	Brutus	1	33
5	Rusty	10	35
6	Hortatio	7	35
8	Hortatio	9	35
1	Dustin	7	45
3	Lubba	8	55.5
10	Bob	3	63.5
NULL	NULL	NULL	NULL

15. Question: Display all sailors sorted by **rating in descending order.**

SQL Query: use neo_db;

SELECT * FROM sailor ORDER BY Rating DESC;

Output:



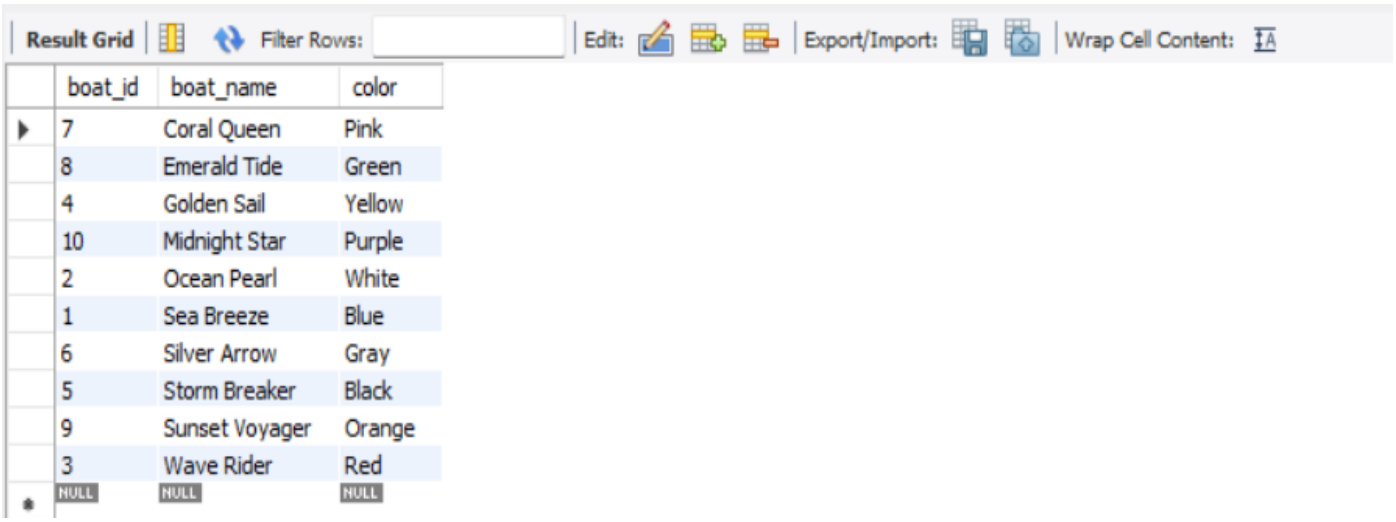
sailor_id	sailor_name	rating	age
5	Rusty	10	35
7	Zorba	10	16
8	Hortatio	9	35
3	Lubba	8	55.5
4	Andy	8	25
1	Dustin	7	45
6	Hortatio	7	35
9	Alex	3	25.5
10	Bob	3	63.5
2	Brutus	1	33
NULL	NULL	NULL	NULL

16. Question: Display all boats sorted by **boat name in alphabetical order**.

SQL Query: use neo_db;

select * from boat order by boat_name;

Output:



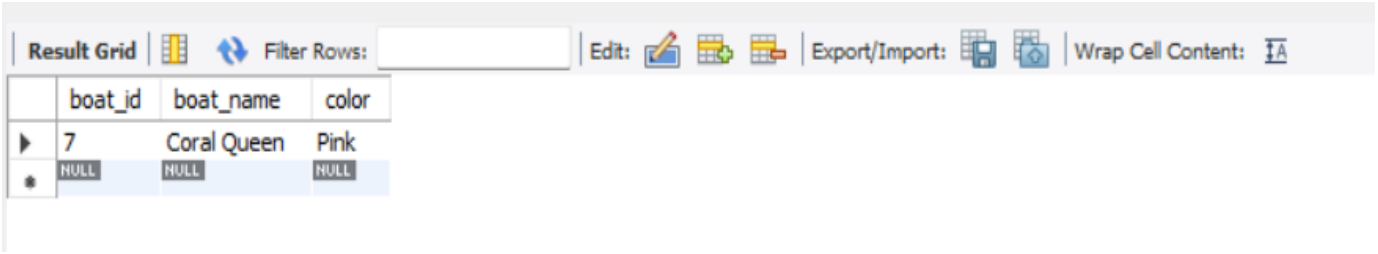
boat_id	boat_name	color
7	Coral Queen	Pink
8	Emerald Tide	Green
4	Golden Sail	Yellow
10	Midnight Star	Purple
2	Ocean Pearl	White
1	Sea Breeze	Blue
6	Silver Arrow	Gray
5	Storm Breaker	Black
9	Sunset Voyager	Orange
3	Wave Rider	Red
NULL	NULL	NULL

17. Question: Display all boat name whose name **ends with the letter 'n'**.

SQL Query: use neo_db;

select * from boat where boat_name like '%n';

Output:



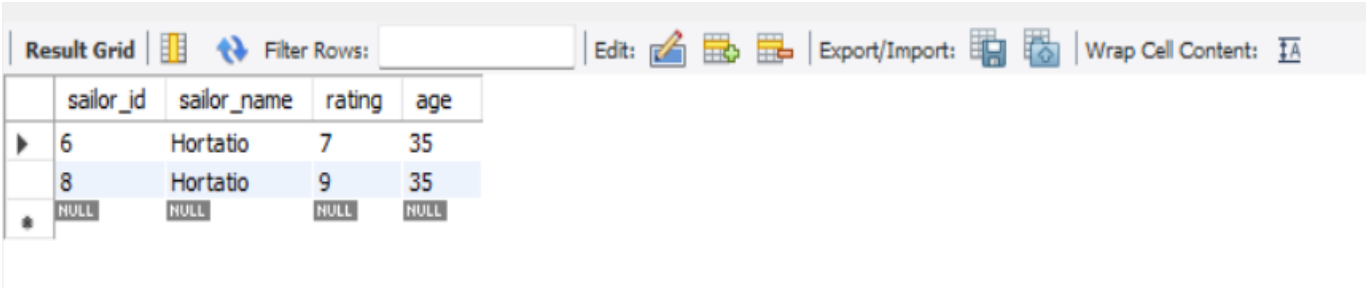
boat_id	boat_name	color
7	Coral Queen	Pink
NULL	NULL	NULL

18. Question: Display all sailors whose name **starts with the letter 'h' and ends with the letter 'o'**.

SQL Query: use neo_db;

select * from sailor where sailor_name like 'h%%o';

Output:



sailor_id	sailor_name	rating	age
6	Hortatio	7	35
8	Hortatio	9	35
NULL	NULL	NULL	NULL