

Experiment No 3

Aim: Create a database using DDL & apply DDL & DML Commands

Class: SE Comp

Year: 2020-21

Performed by: Danyl Fernandes, 72

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Query:

```
create table sailor(  
    sid int,  
    sname varchar(40),  
    rating varchar(5),  
    age int  
);
```

```
select * from sailor
```

The screenshot displays the phpMyAdmin web interface. On the left, a sidebar shows a tree view of databases, including 'exp3' and 'sailor'. The main panel is titled 'Table: sailor' and shows the 'Table structure' tab. A table with 4 columns is displayed:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	sid	int(11)			Yes	NULL			Change Drop More
2	sname	varchar(40)	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	rating	varchar(5)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	age	int(11)			Yes	NULL			Change Drop More

Below the table structure, there are options to 'Check all', 'With selected', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Fulltext', and 'Add to central columns'. There is also a 'Remove from central columns' button. At the bottom, there is a 'Console' tab with the following SQL queries entered:

```
> SELECT * FROM `sailor`  
> SELECT * FROM `sailor`  
> create table sailor ( sid int, sname varchar(40), rating varchar(5), age int )  
> SELECT * FROM `sailor`
```

Query:

```
create table boat (  
    bid int,  
    bname varchar(40),  
    color varchar(40)  
);
```

```
select * from boat
```

The screenshot shows the phpMyAdmin web interface. On the left is a sidebar with a database tree. The main area is titled 'Table: boat' and shows the 'Table structure' tab. It displays a table with three columns: 'bid' (int(11)), 'bname' (varchar(40)), and 'color' (varchar(40)). Below the table structure, there are options to 'Add' columns, 'Indexes', and a 'Console' at the bottom for executing SQL queries.

Server: 127.0.0.1 > Database: exp3 > Table: boat

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	bid	int(11)			Yes	NULL			Change Drop More
2	bname	varchar(40)	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	color	varchar(40)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext Add to central columns
Remove from central columns

Print Propose table structure Track table Move columns Normalize

Add 1 column(s) after color Go

Indexes

Console

```
Press Ctrl+Enter to execute query  
> SELECT * FROM `sailor`  
> SELECT * FROM `sailor`  
> create table sailor ( sid int, sname varchar(40), rating varchar(5), age int )  
> SELECT * FROM `sailor`  
> create table boat ( bid int, bname varchar(40), color varchar(40) )  
> SELECT * FROM `boat`
```

Query:

```
alter table sailor add address varchar(40) after sname
```

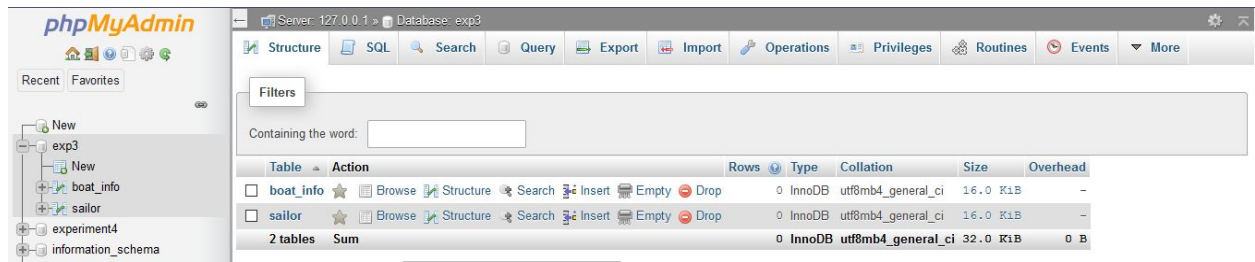
```
select * from sailor
```

The screenshot shows the phpMyAdmin interface for a MySQL database. The left sidebar displays a tree view of databases and tables, with 'sailor' selected under the 'exp3' database. The main panel shows the 'Table structure' view for the 'sailor' table. The table has five columns: 'sid' (int(11)), 'sname' (varchar(40)), 'address' (varchar(40)), 'rating' (varchar(5)), and 'age' (int(11)). Each column has a 'Change' button and a 'Drop' button. Below the table structure, there are buttons for 'Check all', 'With selected', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Fulltext', and 'Add to central columns'. At the bottom, there is a 'Console' tab with a text area containing the following SQL queries:

```
> SELECT * FROM `sailor`  
> SELECT * FROM `sailor`  
> create table sailor ( sid int, sname varchar(40), rating varchar(5), age int )  
> SELECT * FROM `sailor`
```

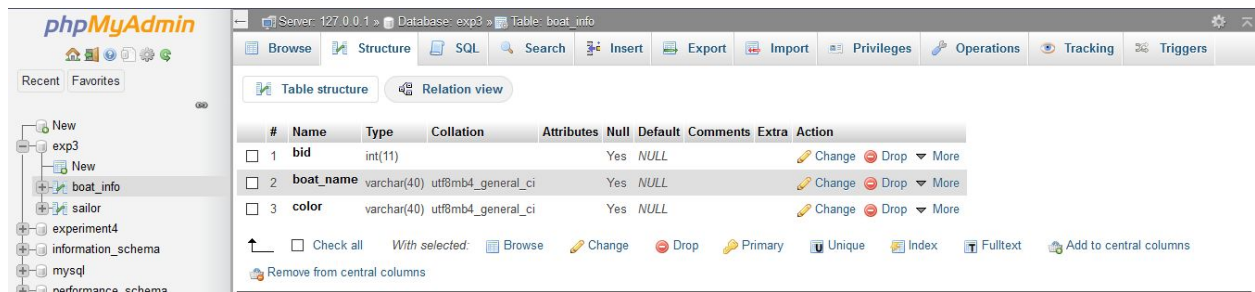
Query:

```
alter table boat rename to boat_info
```



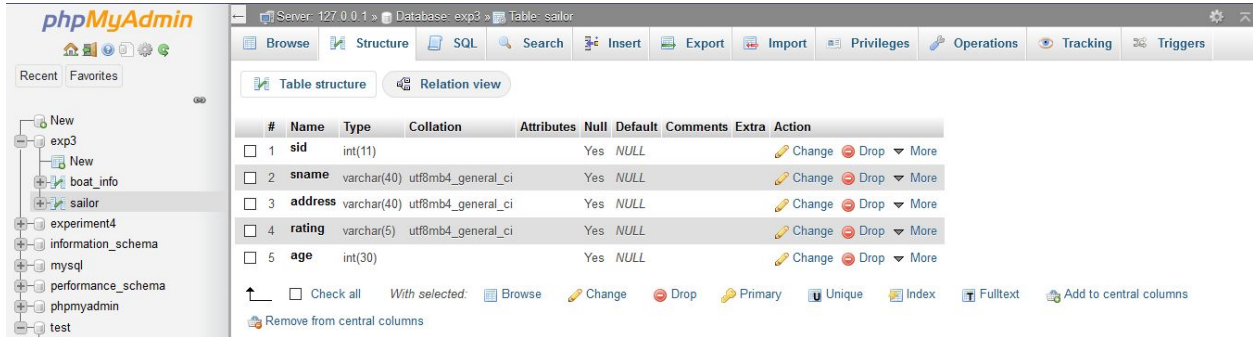
Query:

```
alter table boat_info change column bname boat_name varchar(40)
```



Query:

```
alter table sailor modify age int(30)
```

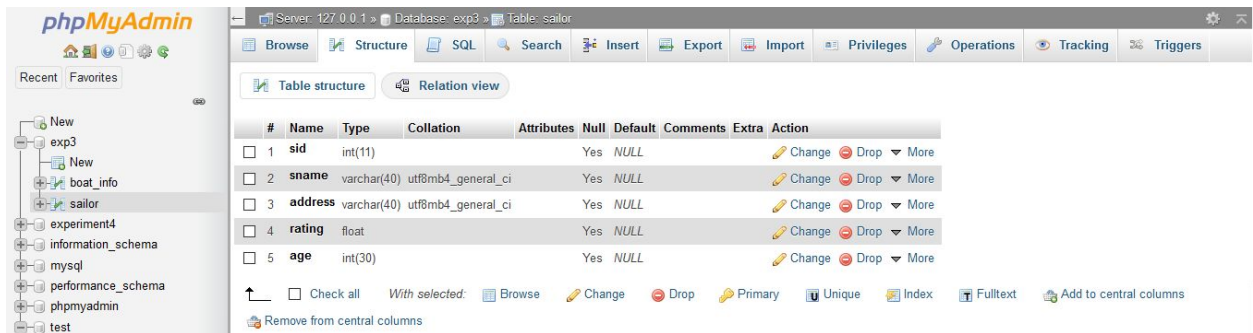


The screenshot shows the phpMyAdmin interface with the 'sailor' table structure displayed. The table has five columns: sid, sname, address, rating, and age. The 'age' column is currently of type int(11) and is being modified to int(30).

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	sid	int(11)			Yes	NULL			Change Drop More
2	sname	varchar(40)	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	address	varchar(40)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	rating	varchar(5)	utf8mb4_general_ci		Yes	NULL			Change Drop More
5	age	int(30)			Yes	NULL			Change Drop More

Query:

```
alter table sailor modify rating float
```



The screenshot shows the phpMyAdmin interface with the 'sailor' table structure displayed. The 'rating' column is currently of type varchar(5) and is being modified to float.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	sid	int(11)			Yes	NULL			Change Drop More
2	sname	varchar(40)	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	address	varchar(40)	utf8mb4_general_ci		Yes	NULL			Change Drop More
4	rating	float			Yes	NULL			Change Drop More
5	age	int(30)			Yes	NULL			Change Drop More

Query:

```
insert into sailor values (1, "Rahul", "Mumbai", 4, 34);
```

```
insert into sailor values (2, "Danyl", "Pune", 5, 21);
```

```
insert into sailor values (3, "Shrinath", "Hyderabad", 3, 22);
```

+ Options

sid	sname	address	rating	age
1	Rahul	Mumbai	4	34
2	Danyl	Pune	5	21
3	Shrinath	Hyderabad	3	22

Query:

```
insert into boat_info values (1, "Titan", "red");
```

```
insert into boat_info values (1, "Pirate", "green");
```

```
insert into boat_info values (1, "Falkan", "yellow");
```

+ Options

bid	boat_name	color
1	Titan	red
1	Pirate	green
1	Falkan	yellow

Query:

```
update boat_info set color="blue" where color="red"
```

bid	boat_name	color
1	Titan	blue
1	Pirate	green
1	Falkan	yellow

Query:

```
select * from sailor
```

sid	sname	address	rating	age
1	Rahul	Mumbai	4	34
2	Danyl	Pune	5	21
3	Shrinath	Hyderabad	3	22

Query:

```
update sailor set rating="5"
```

sid	sname	address	rating	age
1	Rahul	Mumbai	5	34
2	Danyl	Pune	5	21
3	Shrinath	Hyderabad	5	22

Query:

```
select * from boat_info where color="blue"
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0018 seconds.)

```
select * from boat_info where color="blue"
```

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Refresh\]](#)

☐ Show all | Number of rows: 25 Filter rows:

+ Options

bid	boat_name	color
1	Titan	blue

Query:

```
select * from boat_info where color="yellow"
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0018 seconds.)

```
select * from boat_info where color="yellow"
```

☐ Profiling [\[Edit inline\]](#) [\[Edit\]](#) [\[Explain SQL\]](#) [\[Create PHP code\]](#) [\[Refresh\]](#)

☐ Show all | Number of rows: 25 Filter rows:

+ Options

bid	boat_name	color
1	Falken	yellow

Query:

```
delete from boat_info where color="yellow"
```

```
select * from boat_info
```

bid	boat_name	color
1	Titan	blue
1	Pirate	green