

## Experiment No:09

### SUBQUERY

#### QUESTION:

=>Create table of **salesorder** with following fields: Order Number(Unique key begins with 0),Clientnumber(FK),Order Date.

=>Create table **clientmaster** with following fields: clientno(PK),cname,city.

=>Create table **salesmaster** with following fields:  
salesmanno(PK),sname,city.  
Add 5 rows of data in 3 tables

#### QUERY:

```
create table clientmaster (cno varchar(10) primary key not null, cname  
varchar(20), city varchar(20));
```

```
create table salesmaster (salesmanno varchar(10) primary key,sname  
VARCHAR(20),city VARCHAR(20));
```

```
create table salesorder (orderno varchar(20) primary key not null check  
(order_no like "0%"),cno int REFERENCES clientmaster(client_no),  
orderdate date);
```

```
insert into clientmaster values(101,'senchu','kannur'),  
(102,'sobin','kannur'),(103,'sajan','mumbai'),(104,'siju','gujarath'),  
(105,'george','kottayam');
```

```
insert into salesmaster VALUES(1,'biju','mumbai'),(2,'amith','mumbai'),  
(3,'sreelal','kannur'),(4,'anoop','thrissur'),(5,'goutham','pala');
```

```
insert into salesorder values ('0',101,'2013-06-01'),('01',103,'2013-02-  
01'),('02',103,'2013-03-21'),('03',102,'2013-03-02'),('04',105,'2013-04-02');
```

select \* from clientmaster;

				cno	cname	city
<input type="checkbox"/>	Edit	Copy	Delete	101	senchu	kannur
<input type="checkbox"/>	Edit	Copy	Delete	102	sobin	kannur
<input type="checkbox"/>	Edit	Copy	Delete	103	sajan	mumbai
<input type="checkbox"/>	Edit	Copy	Delete	104	siju	gujarat
<input type="checkbox"/>	Edit	Copy	Delete	105	george	kottayam

select \* from salesmaster;

				salesmanno	sname	city
<input type="checkbox"/>	Edit	Copy	Delete	1	biju	mumbai
<input type="checkbox"/>	Edit	Copy	Delete	2	amith	mumbai
<input type="checkbox"/>	Edit	Copy	Delete	3	sreelal	kannur
<input type="checkbox"/>	Edit	Copy	Delete	4	anoop	thrissur
<input type="checkbox"/>	Edit	Copy	Delete	5	goutham	pala

select \* from salesorder;

				orderno	cno	orderdate
<input type="checkbox"/>	Edit	Copy	Delete	000	101	2013-05-01
<input type="checkbox"/>	Edit	Copy	Delete	001	103	2013-02-01
<input type="checkbox"/>	Edit	Copy	Delete	002	103	2013-03-21
<input type="checkbox"/>	Edit	Copy	Delete	003	102	2013-03-02
<input type="checkbox"/>	Edit	Copy	Delete	004	105	2013-04-02
<input type="checkbox"/>	Edit	Copy	Delete	005	NULL	2013-04-05

1. Retrieve all orders placed by a client named sajan.

select \* from salesorder WHERE cno IN(select cno FROM clientmaster WHERE cname="sajan");

				orderno	cno	orderdate
<input type="checkbox"/>	Edit	Copy	Delete	001	103	2013-02-01
<input type="checkbox"/>	Edit	Copy	Delete	002	103	2013-03-21

2. Retrieve the names of all clients and salesman in the city of mumbai.

```
SELECT c.cname,s.sname FROM clientmaster c,salesmaster s WHERE  
c.city="mumbai" and s.city IN (SELECT city FROM salesmaster where  
city="mumbai");
```

cname	sname
sajan	biju
sajan	amith

3. Retrieve the order number, cname, order date from client master and sales order table.

```
SELECT c.cname,s.order_date,s.order_no FROM clientmaster  
c,salesorder s WHERE c.cno IN (SELECT s.cno from salesorder);
```

cname	orderdate	orderno
senchu	2013-05-01	000
sajan	2013-02-01	001
sajan	2013-03-21	002
sobin	2013-03-02	003
george	2013-04-02	004

## EXPERIMENT NO:10

### VIEW TABLE

1. Create a view view1 from salesorder with (order number, order date)

CREATE VIEW view1 as SELECT orderno, orderdate from salesorder;

2. Describe the view view1

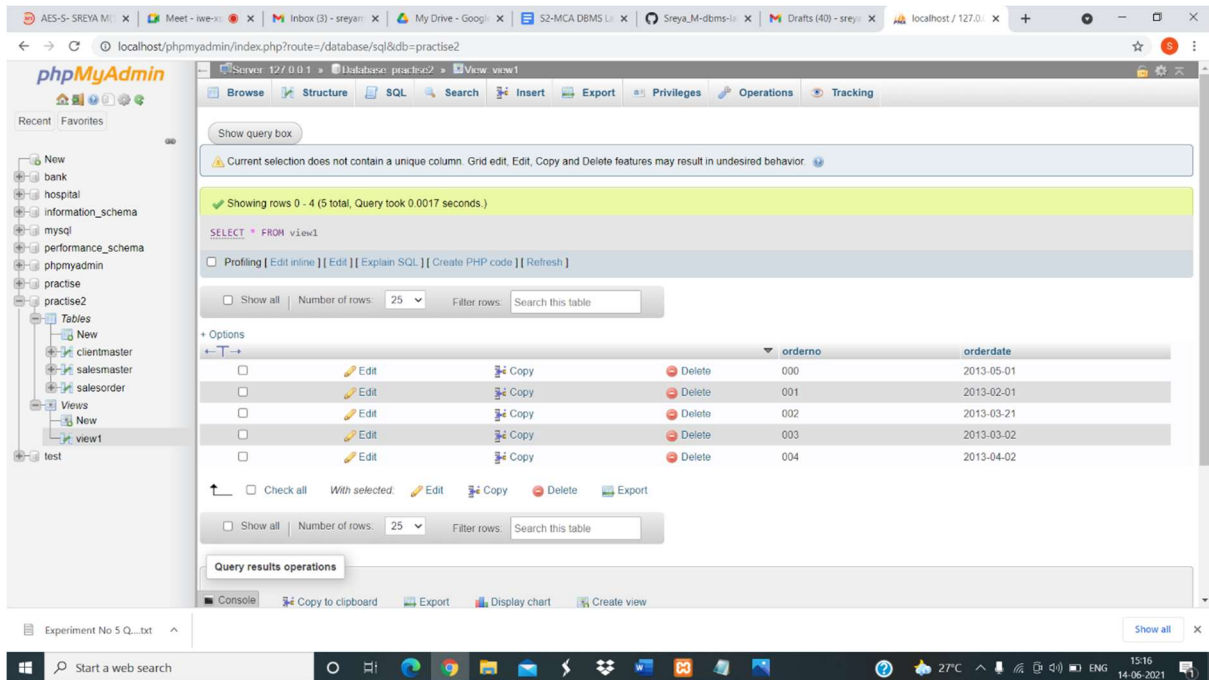
DESC view1

The screenshot shows the phpMyAdmin web interface. The left sidebar displays a database structure with a 'practise2' database selected. The main panel shows a successful SQL query execution message: 'Your SQL query has been executed successfully.' Below this, the command 'DESC view1' is shown. A table displays the structure of the view 'view1' with two columns: 'orderno' (varchar(10)) and 'orderdate' (date). The 'orderno' column is marked as 'NO' for null and 'NULL' for default. The 'orderdate' column is marked as 'YES' for null and 'NULL' for default. Below the table, there are options to 'Print', 'Copy to clipboard', and 'Create view'. A 'Bookmark this SQL query' section is also visible, with a label field and a checkbox for 'Let every user access this bookmark'.

Field	Type	Null	Key	Default	Extra
orderno	varchar(10)	NO		NULL	
orderdate	date	YES		NULL	

### 3. Display Values of view1

`SELECT * FROM view1`

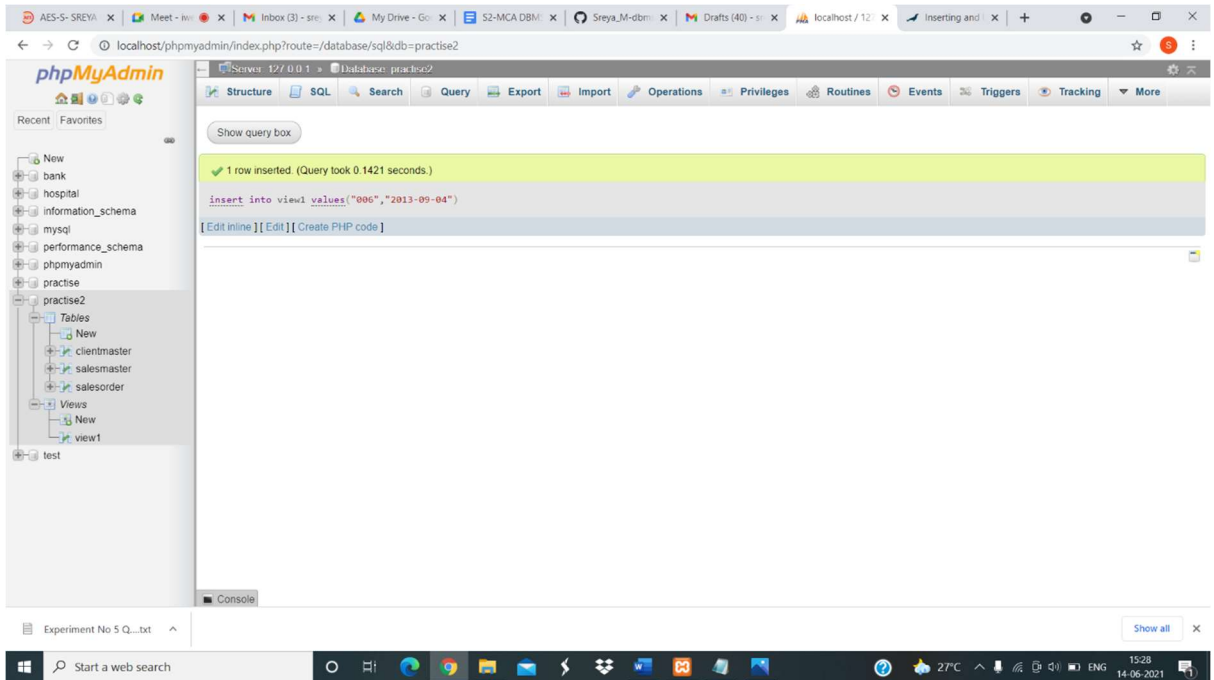


The screenshot shows the phpMyAdmin interface with the 'practise2' database selected. The 'view1' view is chosen from the left sidebar. The main panel displays the results of the query `SELECT * FROM view1`. A message indicates 'Showing rows 0 - 4 (5 total, Query took 0.0017 seconds)'. Below this, a table with 5 rows is shown. The columns are 'orderno' and 'orderdate'. The rows contain the following data:

orderno	orderdate
000	2013-05-01
001	2013-02-01
002	2013-03-21
003	2013-03-02
004	2013-04-02

### 4. Insert one row of data in view1 and observe the output/error message

`insert into view1 values("005","2013-04-05")`



The screenshot shows the phpMyAdmin interface with the 'practise2' database selected. The 'view1' view is chosen from the left sidebar. The main panel displays the results of the query `insert into view1 values("005","2013-04-05")`. A message indicates '1 row inserted (Query took 0.1421 seconds)'. Below this, the SQL query is shown in a text area.

Current selection does not contain a unique column. Grid edit, Edit, Copy and Delete features may result in undesired behavior.

Showing rows 0 - 6 (7 total, Query took 0.0013 seconds)

```
SELECT * FROM `view1`
```

Options: ☐ Show all | Number of rows: 25 | Filter rows: Search this table

	orderno	orderdate
<input type="checkbox"/>	000	2013-05-01
<input type="checkbox"/>	001	2013-02-01
<input type="checkbox"/>	002	2013-03-21
<input type="checkbox"/>	003	2013-03-02
<input type="checkbox"/>	004	2013-04-02
<input type="checkbox"/>	005	2013-04-05
<input type="checkbox"/>	006	2013-09-04

Query results operations: ☐ Check all | With selected: ☐ Edit | ☐ Copy | ☐ Delete | ☐ Export

5. Create a view view2 from clientmaster (clientno, cname)

CREATE view view2 as SELECT cno,cname from clientmaster;

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0782 seconds)

```
CREATE view view2 as SELECT cno,cname from clientmaster
```

Options: ☐ Show all | Number of rows: 25 | Filter rows: Search this table

6. Insert one row of data in view2 and observe the output/error message

insert into view2 values("106","Anu")

The screenshot shows the phpMyAdmin interface with the 'practise2' database selected. The 'view2' view is chosen from the left sidebar. The SQL tab is active, displaying the query: `INSERT into view2 VALUES("106","Anu")`. A green message bar at the top indicates '1 row inserted (Query took 0.0819 seconds)'. The left sidebar shows the database structure with 'practise2' expanded, showing 'Tables' (New, clientmaster, salesmaster, salesorder) and 'Views' (New, view1, view2).

The screenshot shows the phpMyAdmin interface with the 'practise2' database selected. The 'view2' view is chosen from the left sidebar. The SQL tab is active, displaying the query: `SELECT * FROM `view2``. A green message bar at the top indicates 'Showing rows 0 - 5 (6 total, Query took 0.0030 seconds)'. Below the query, there is a table with 6 rows and 2 columns: 'cno' and 'cname'. The rows are numbered 101 to 106. The last row (106) contains the value 'Anu' in the 'cname' column. The left sidebar shows the database structure with 'practise2' expanded, showing 'Tables' (New, clientmaster, salesmaster, salesorder) and 'Views' (New, view1, view2).

	cno	cname
<input type="checkbox"/>	101	senchu
<input type="checkbox"/>	102	sobin
<input type="checkbox"/>	103	sajan
<input type="checkbox"/>	104	siju
<input type="checkbox"/>	105	george
<input type="checkbox"/>	106	Anu

## 7. Create a view view3 from salesmaster with all columns with condition 'city=mumbai'

create view view3 as select \* from clientmaster where city="mumbai"

The screenshot shows the phpMyAdmin interface for a database named 'practise2'. The left sidebar shows the database structure with tables 'clientmaster', 'salesmaster', and 'salesorder'. The main panel is in the 'SQL' tab, displaying the query: `CREATE view view3 as SELECT * from salesmaster where city="mumbai"`. A message above the query states: 'MySQL returned an empty result set (i.e. zero rows). (Query took 0.0550 seconds)'. The bottom status bar shows 'Experiment No 5 Q...txt'.

The screenshot shows the phpMyAdmin interface for the 'practise2' database, specifically viewing 'view3'. The main panel displays the query: `SELECT * FROM "view3"`. Below the query, a table shows the results of the view. The table has three columns: 'salesmanno', 'sname', and 'city'. There are two rows of data.

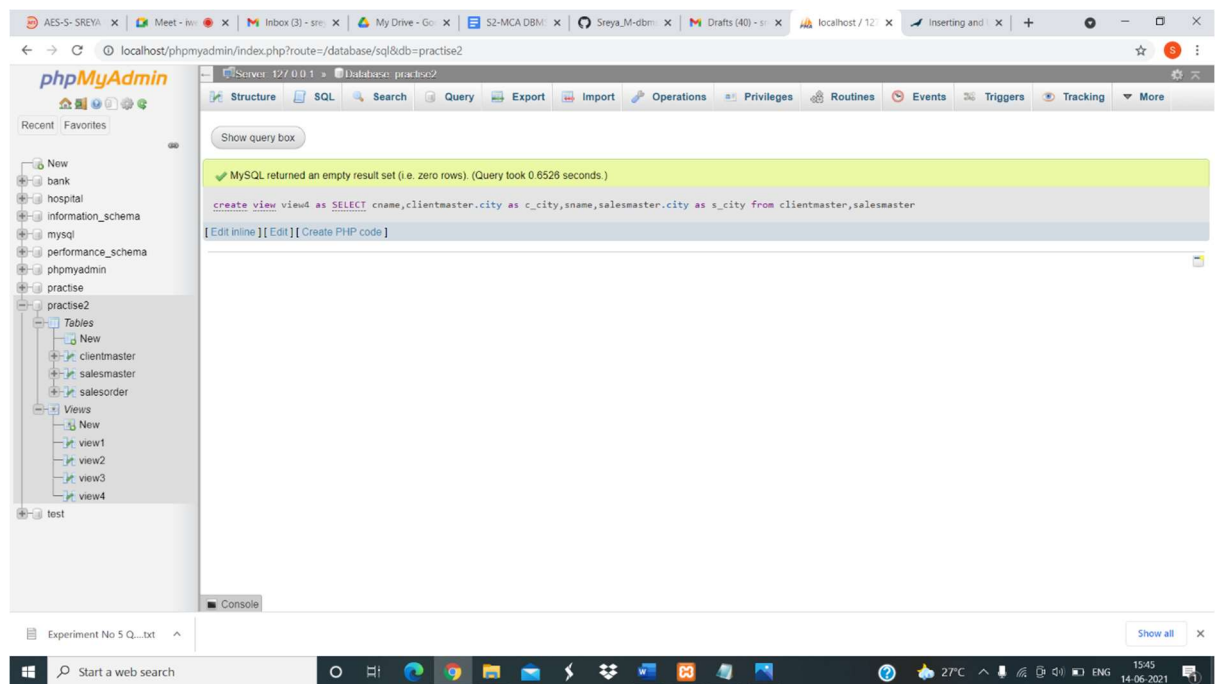
	salesmanno	sname	city
<input type="checkbox"/>	1	biju	mumbai
<input type="checkbox"/>	2	amith	mumbai

The bottom status bar shows 'Experiment No 5 Q...txt'.



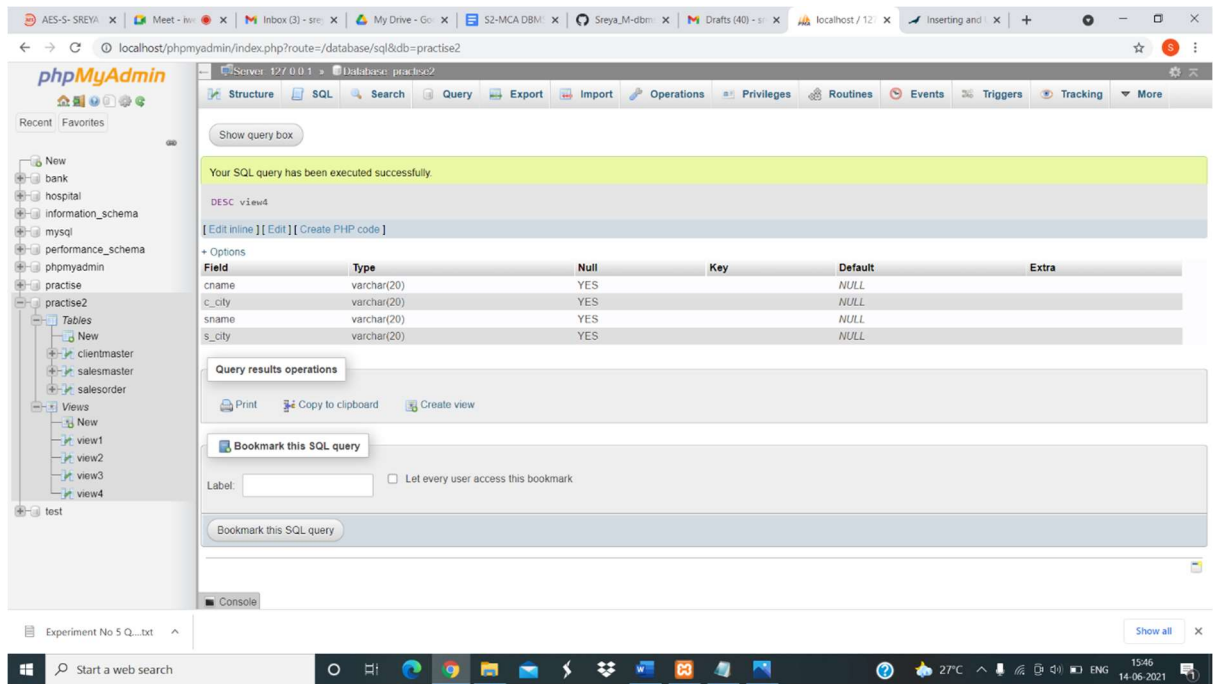
8. Create a view view4 from clientmaster and salesmaster with details (cname,city, sname,city)

create view view4 as SELECT cname,clientmaster.city as c\_city,sname,salesmaster.city as s\_city from clientmaster,salesmaster;



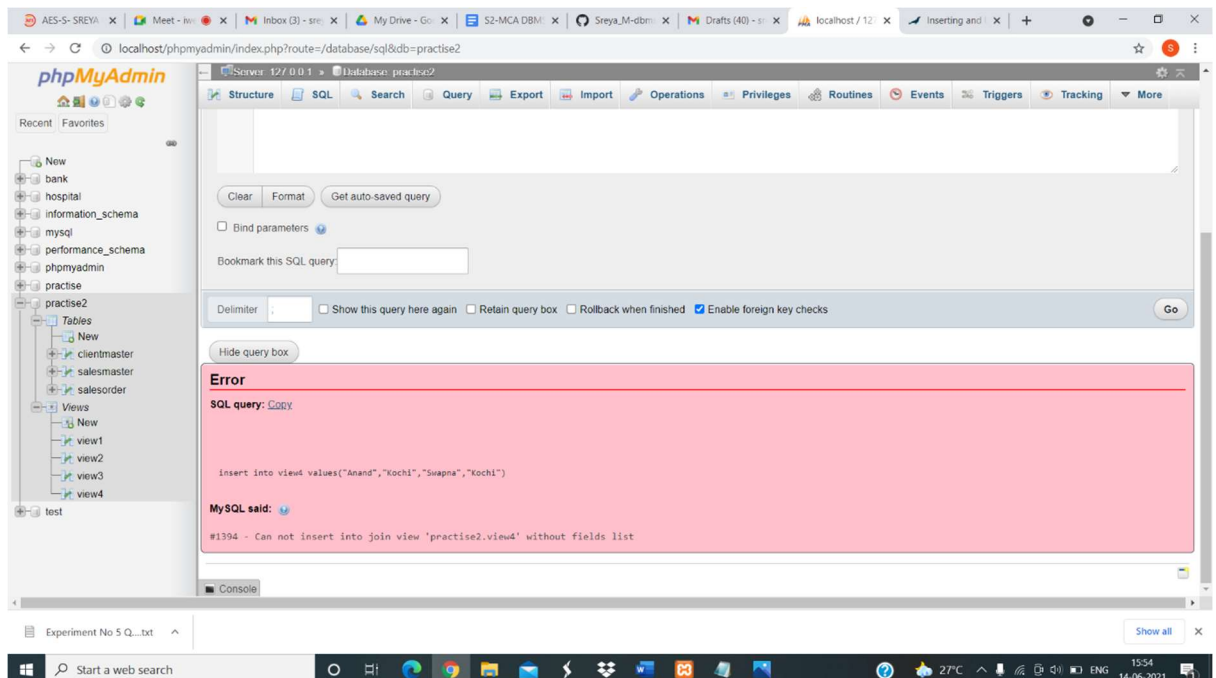
9. Describe view4

DESC view4



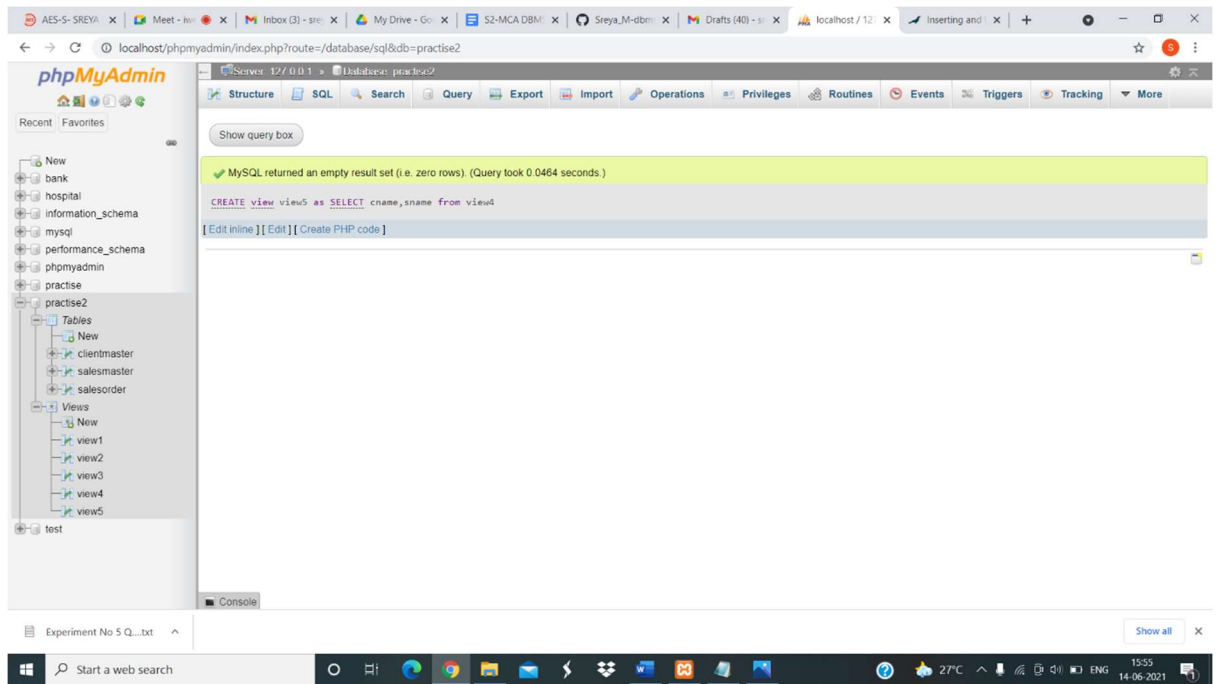
10. Insert one row of data in view4 and observe the output/error message

insert into view4 values("Anand","Kochi","Swapna","Kochi")



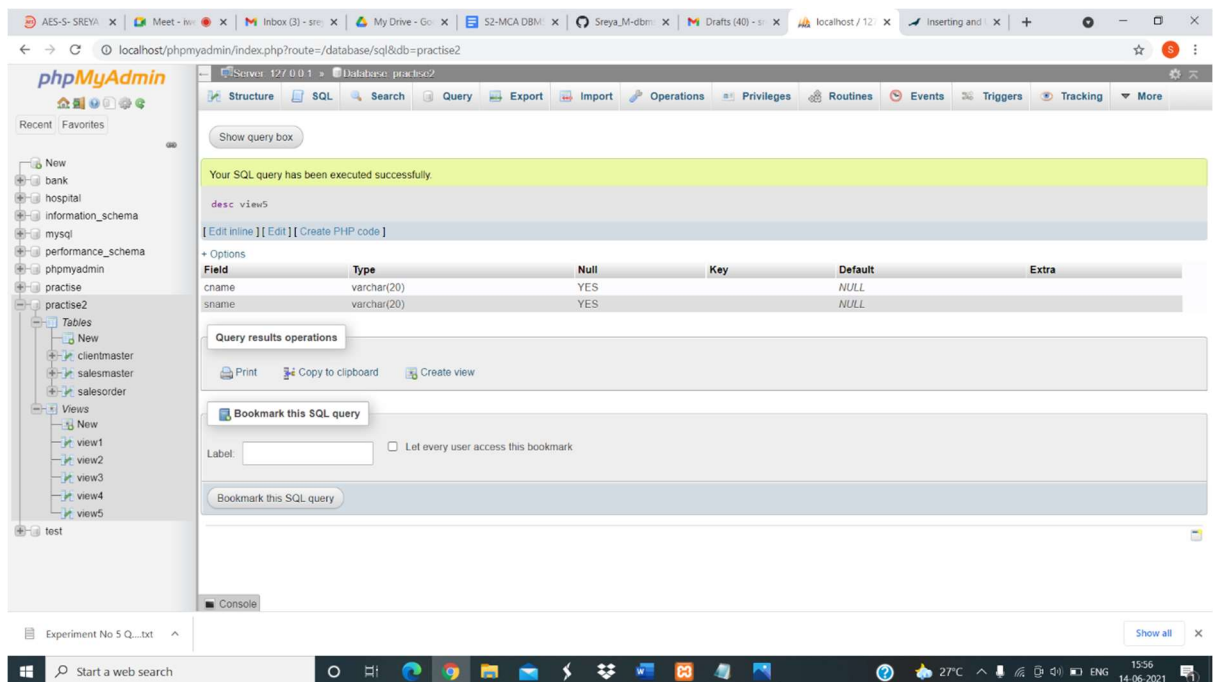
11. Create a view view5 from view4(cname, sname)

CREATE view view5 as SELECT cname,sname from view4;



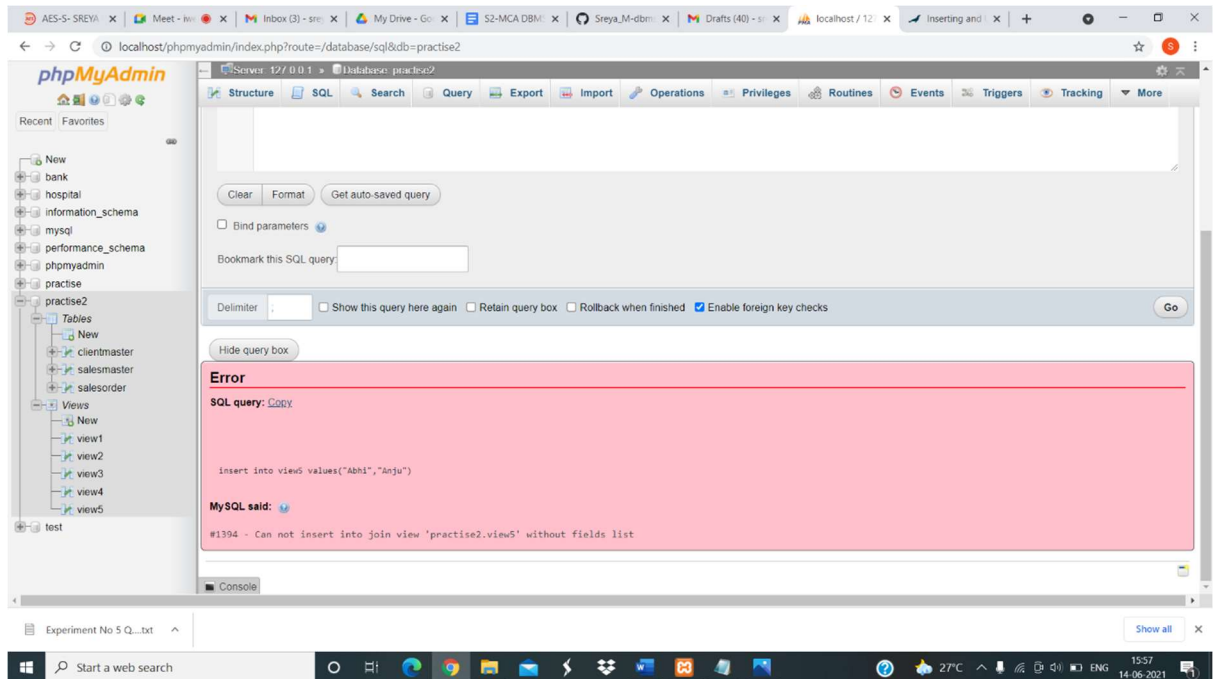
## 12. Describe view5

### Desc view5



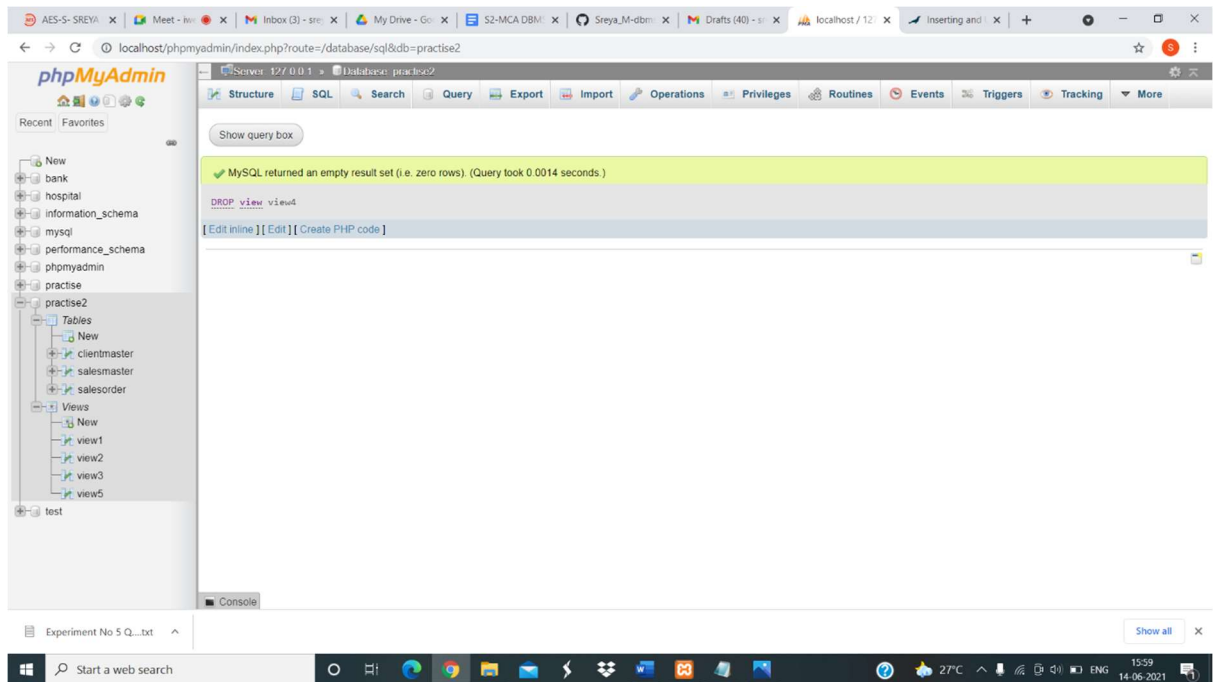
13. Insert one row of data in view5 and observe the output/error message

insert into view5 values("Abhi","Anju")



14. Delete the view4 table

DROP view view4



15.Delete the view5 table.

DROP view view5

