

**EXPERIMENT 10: VIEWS**

- I. **CREATE TABLE clientmaster(CLIENTNO NUMERIC PRIMARY KEY,CNAME VARCHAR(20),CITY VARCHAR(20));**  
**INSERT INTO clientmaster(`CLIENTNO`,`CNAME`,`CITY`) VALUES**  
**(`101`,`senchu`,`kannur`),**  
**(`102`,`sobin`,`kannur`),**  
**(`103`,`sajan`,`mumbai`),**  
**(`104`,`siju`,`gujarath`),**  
**(`105`,`george`,`kottayam`);**
- II. **CREATE TABLE SALESMASTER(SALESMANNO NUMERIC PRIMARY KEY,SNAME VARCHAR(20),CITY VARCHAR(20));**  
**INSERT INTO salesmaster(`SALESMANNO`,`SNAME`,`CITY`)VALUES**  
**(`1`,`biju`,`mumbai`),**  
**(`2`,`amith`,`mumbai`),**  
**(`3`,`sreelal`,`kannur`),**  
**(`4`,`anoop`,`thrissu`),**  
**(`5`,`goutham`,`pala`);**
- III. **CREATE TABLE salesorder(ORDERNO int PRIMARY KEY NOT NULL CHECK (ORDERNO like "0%"), CLIENTNO NUMERIC,FOREIGN KEY(CLIENTNO) REFERENCES clientmaster(CLIENTNO),ORDERDATE DATE);**  
**ALTER TABLE salesorder MODIFY ORDERNO VARCHAR(20);**  
**INSERT INTO `salesorder`(`ORDERNO`,`CLIENTNO`,`ORDERDATE`)VALUES**  
**(`0`,`101`,`2013-06-01`),**  
**(`1`,`103`,`2013-02-01`),**  
**(`2`,`103`,`2013-03-21`),**  
**(`3`,`102`,`2013-03-02`),**  
**(`4`,`105`,`2013-04-02`);**

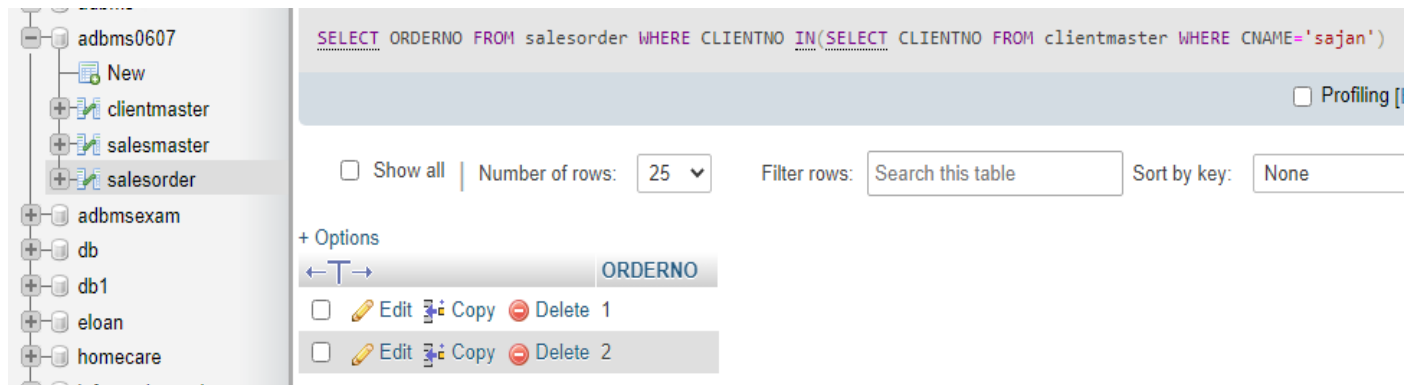
1

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

### QUERY

```
SELECT ORDERNO FROM salesorder WHERE CLIENTNO IN(SELECT CLIENTNO FROM clientmaster WHERE CNAME='sajan');
```

### OUTPUT



SELECT ORDERNO FROM salesorder WHERE CLIENTNO IN(SELECT CLIENTNO FROM clientmaster WHERE CNAME='sajan')

Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

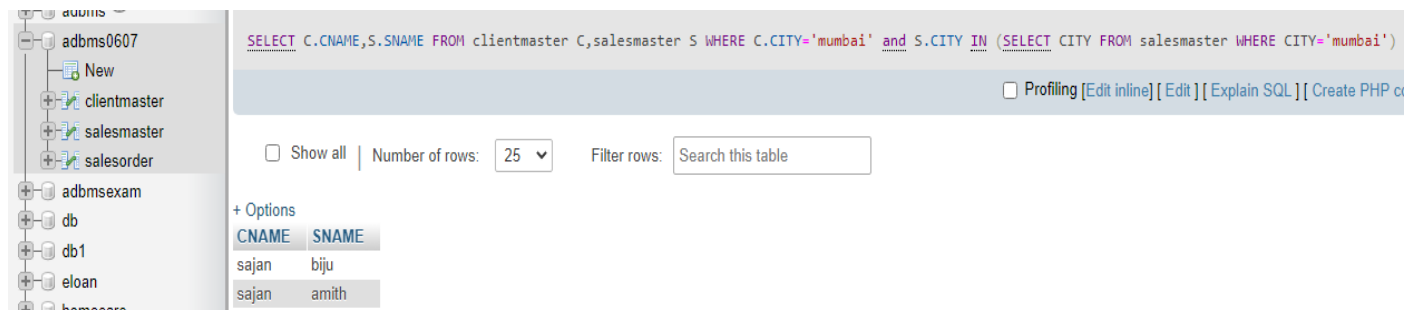
ORDERNO
1
2

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

### QUERY

```
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');
```

### OUTPUT



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')

Number of rows: 25 Filter rows: Search this table

+ Options

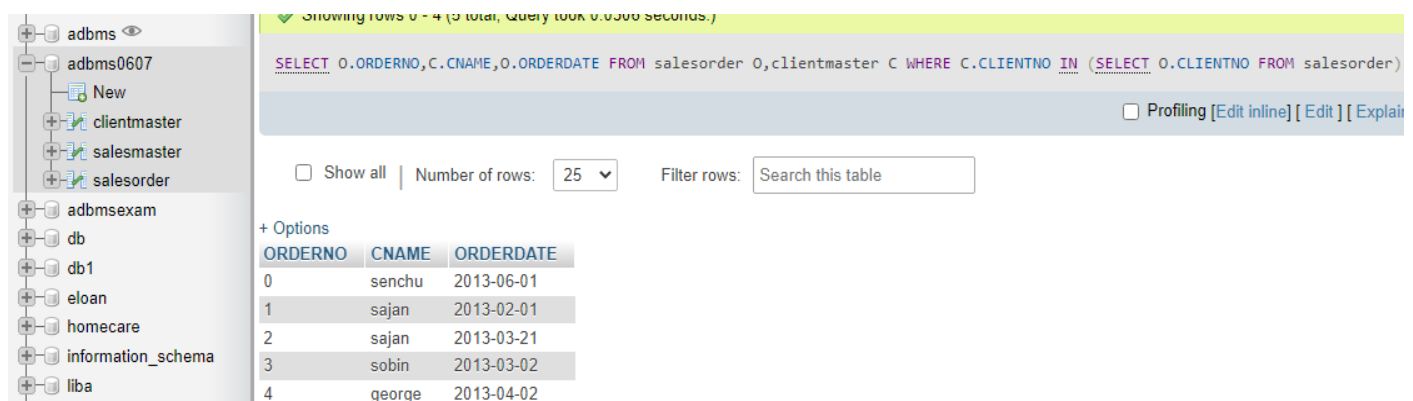
CNAME	SNAME
sajan	biju
sajan	amith

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

### QUERY

```
SELECT O.ORDERNO,C.CNAME,O.ORDERDATE FROM salesorder O,clientmaster C WHERE C.CLIENTNO IN (SELECT O.CLIENTNO FROM salesorder);
```

### OUTPUT



Showing rows 0 - 4 (5 total, Query took 0.000 seconds.)

SELECT O.ORDERNO,C.CNAME,O.ORDERDATE FROM salesorder O,clientmaster C WHERE C.CLIENTNO IN (SELECT O.CLIENTNO FROM salesorder)

Number of rows: 25 Filter rows: Search this table

+ Options

ORDERNO	CNAME	ORDERDATE
0	senchu	2013-06-01
1	sajan	2013-02-01
2	sajan	2013-03-21
3	sobin	2013-03-02
4	george	2013-04-02

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

#### QUERY

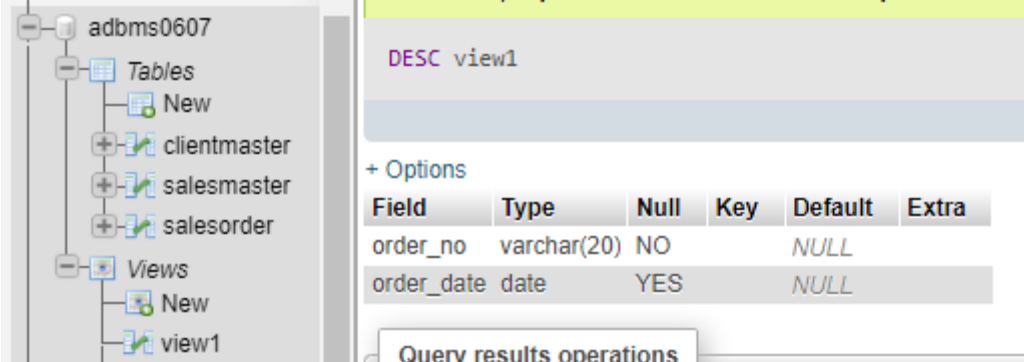
CREATE VIEW VIEW1(order\_no,order\_date)AS SELECT ORDERNO,ORDERDATE FROM salesorder

### 2. Describe the view view1

#### QUERY

DESC view1;

#### OUTPUT



The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Views' folder under 'adbms0607' is expanded, showing 'view1'. On the right, the 'Query Results' pane displays the output of the 'DESC view1' query. The output is a table with columns: Field, Type, Null, Key, Default, and Extra. The data rows are:

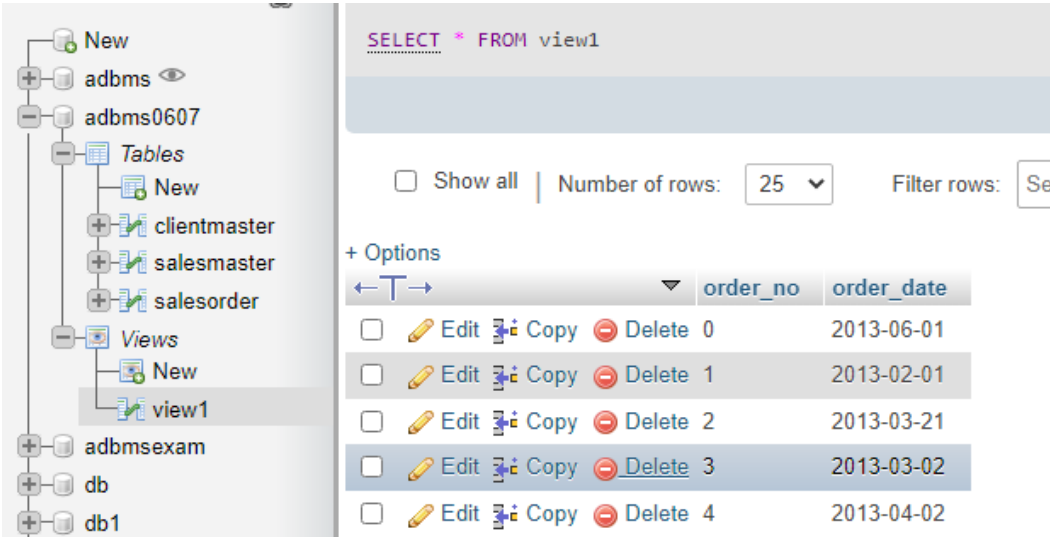
Field	Type	Null	Key	Default	Extra
order_no	varchar(20)	NO		NULL	
order_date	date	YES		NULL	

### 3. Display Values of view1

#### QUERY

SELECT \* FROM view1;

#### OUTPUT



The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Views' folder under 'adbms0607' is expanded, showing 'view1'. On the right, the 'Query Results' pane displays the output of the 'SELECT \* FROM view1' query. The output is a table with columns: order\_no and order\_date. The data rows are:

order_no	order_date
0	2013-06-01
1	2013-02-01
2	2013-03-21
3	2013-03-02
4	2013-04-02

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

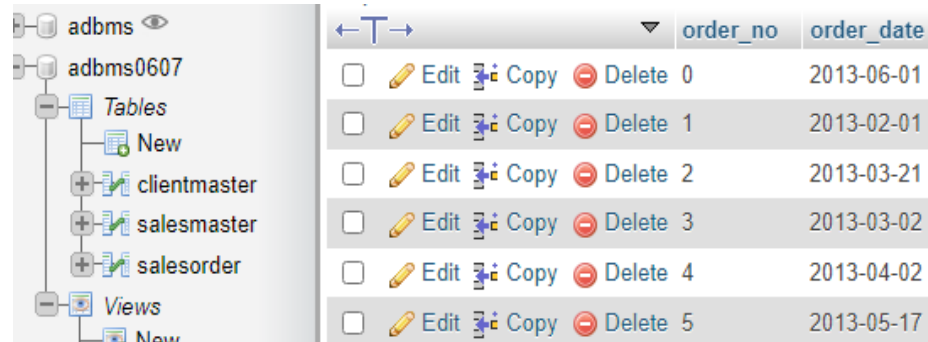
##### QUERY

INSERT INTO view1 VALUES(5,'2013-05-17');

##### OUTPUT

✓ 1 row inserted. (Query took 0.0993 seconds.)

```
INSERT INTO view1 VALUES(5,'2013-05-17')
```



The screenshot shows the 'adbms' schema in a database client. Under 'Tables', there are 'clientmaster', 'salesmaster', and 'salesorder'. Under 'Views', there is a 'New' button. To the right, a table with columns 'order\_no' and 'order\_date' is displayed. The table contains 6 rows, with the last row having 'order\_no' 5 and 'order\_date' '2013-05-17'.

order_no	order_date
0	2013-06-01
1	2013-02-01
2	2013-03-21
3	2013-03-02
4	2013-04-02
5	2013-05-17

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

##### QUERY

CREATE VIEW view2(clientno,cname) AS SELECT CLIENTNO,CNAME FROM clientmaster;

##### OUTPUT

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0446 seconds.)

```
CREATE VIEW view2(clientno,cname) AS SELECT CLIENTNO,CNAME FROM clientmaster
```

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

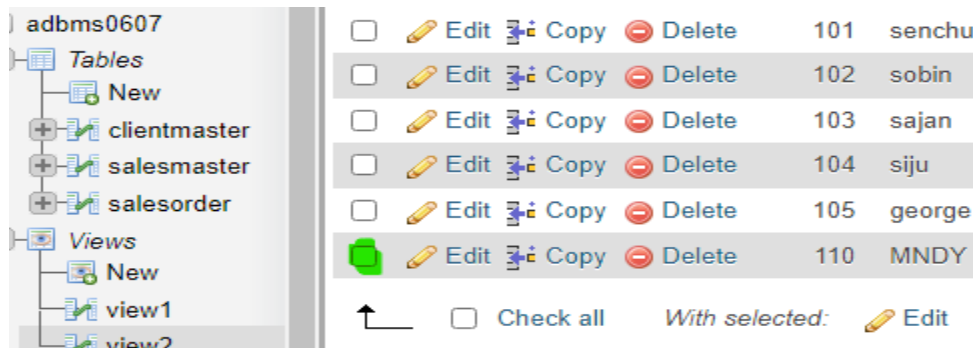
##### QUERY

INSERT INTO view2 VALUES(110,'MNDY');

##### OUTPUT

✓ 1 row inserted. (Query took 0.1274 seconds.)

```
INSERT INTO view2 VALUES(110,'MNDY')
```



The screenshot shows the 'adbms0607' schema. Under 'Tables', there are 'clientmaster', 'salesmaster', and 'salesorder'. Under 'Views', there are 'New', 'view1', and 'view2'. To the right, a table with columns 'clientno' and 'cname' is displayed. The table contains 6 rows, with the last row having 'clientno' 110 and 'cname' 'MNDY'.

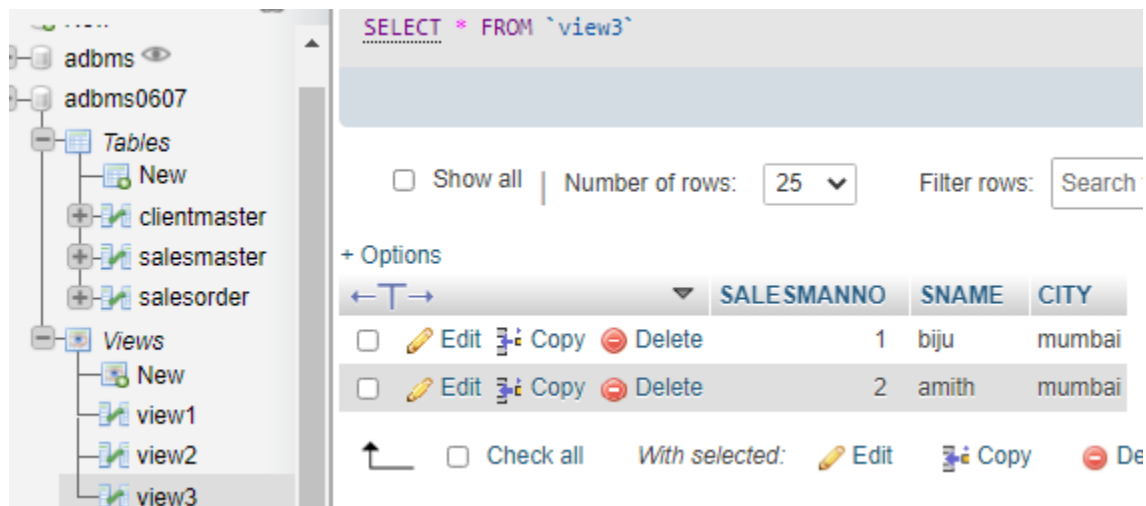
clientno	cname
101	senchu
102	sobin
103	sajan
104	siju
105	george
110	MNDY

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

### QUERY

CREATE VIEW view3 AS SELECT SALESMANNO,SNAME,CITY FROM salesmaster WHERE CITY="MUMBAI";

### OUTPUT



SELECT \* FROM `view3`

Number of rows: 25

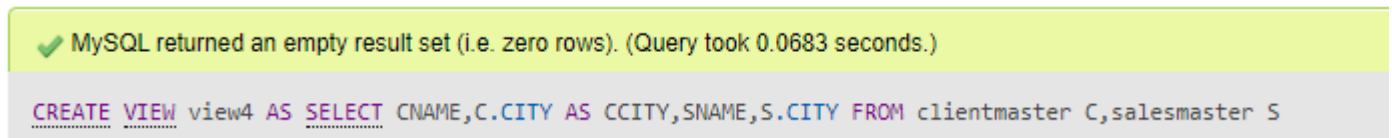
	SALESMANNO	SNAME	CITY
<input type="checkbox"/>	1	biju	mumbai
<input type="checkbox"/>	2	amith	mumbai

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

### QUERY

CREATE VIEW view4 AS SELECT CNAME,C.CITY AS CCITY,SNAME,S.CITY FROM clientmaster C,salesmaster S;

### OUTPUT



✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0683 seconds.)

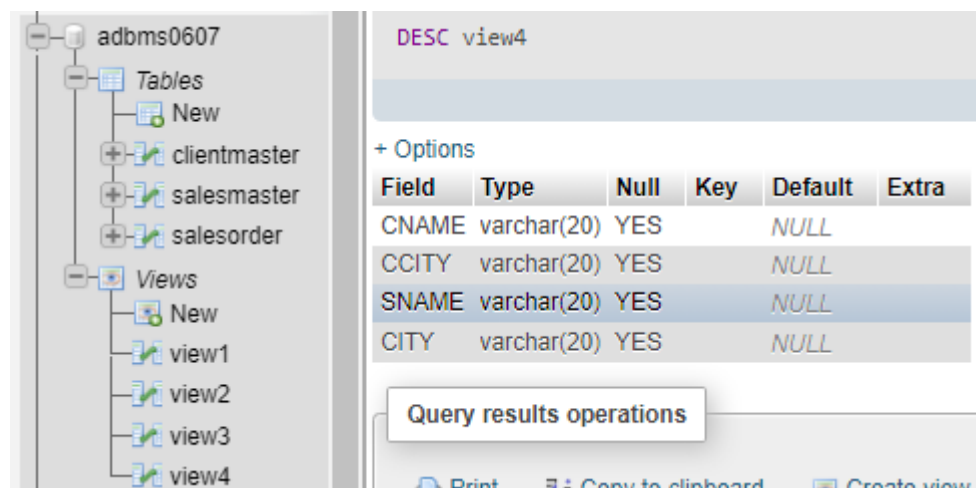
CREATE VIEW view4 AS SELECT CNAME,C.CITY AS CCITY,SNAME,S.CITY FROM clientmaster C,salesmaster S;

## 9. Describe view4

### QUERY

DESC view4;

### OUTPUT



DESC view4

Field	Type	Null	Key	Default	Extra
CNAME	varchar(20)	YES		NULL	
CCITY	varchar(20)	YES		NULL	
SNAME	varchar(20)	YES		NULL	
CITY	varchar(20)	YES		NULL	

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

### QUERY

```
INSERT INTO `view4`(`CNAME`, `CCITY`, `SNAME`, `CITY`) VALUES ('JOICE','KTKLM','JOHN','MNDY');
```


#1393 - Can not modify more than one base table through a join view 'adbms0607.view4'

### OUTPUT

#### Error

SQL query: [Copy](#)

```
INSERT INTO `view4`(`CNAME`, `CCITY`, `SNAME`, `CITY`) VALUES ('JOICE','KTKLM','JOHN','MNDY')
```

MySQL said: 

#1393 - Can not modify more than one base table through a join view 'adbms0607.view4'

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

### QUERY

```
CREATE VIEW view5 AS SELECT CNAME,SNAME FROM view4;
```

### OUTPUT

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0353 seconds.)

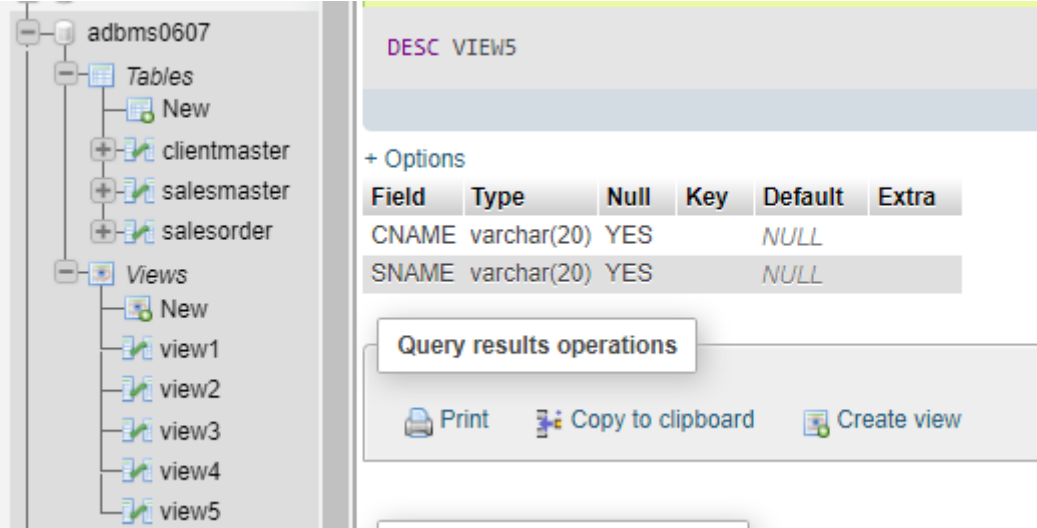
```
CREATE VIEW view5 AS SELECT CNAME,SNAME FROM view4
```

## 12. Describe view5

### QUERY

```
DESC VIEW5;
```

### OUTPUT



The screenshot shows the MySQL Workbench interface. On the left, the 'adbms0607' database is selected, showing a tree view with 'Tables' and 'Views'. Under 'Views', 'view5' is listed. On the right, the 'DESC VIEW5' query results are displayed. The results show two fields: 'CNAME' and 'SNAME', both of type 'varchar(20)', with 'NULL' as the default value. Below the results, there are buttons for 'Print', 'Copy to clipboard', and 'Create view'.

Field	Type	Null	Key	Default	Extra
CNAME	varchar(20)	YES		NULL	
SNAME	varchar(20)	YES		NULL	

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

#### QUERY

```
INSERT INTO `view5`(`CNAME`, `SNAME`) VALUES ("JOICE","JOHN");
```


#1393 - Can not modify more than one base table through a join view 'adbms0607.view5'

#### OUTPUT

##### Error

SQL query: [Copy](#)

```
INSERT INTO `view5`(`CNAME`, `SNAME`) VALUES ("JOICE","JOHN")
```

MySQL said: 

#1393 - Can not modify more than one base table through a join view 'adbms0607.view5'

### 14. Delete the view4 table

#### QUERY

```
DROP VIEW view4;
```

#### OUTPUT

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0060 seconds.)

```
DROP VIEW view4
```

### 15. Delete the view5 table.

#### QUERY

```
DROP VIEW view5;
```

#### OUTPUT

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0054 seconds.)

```
DROP VIEW view5
```