

ADVANCED DATA BASE MANAGEMENT SYSTEM

EXPERIMENT NO.9 &10

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ROLL NO ; 16**

EXPERIMENT NO.9 : 07/06/2021
SUBQUERY

Create table of **salesorder** with following fields: Order Number(Unique key begins with 0),Client number(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

SQL> select * from clientmaster;

CLIENTNO	CNAME	CITY
101	senchu	kannur
102	sobin	kannur
103	sajan	mumbai
104	siju	gujarath
105	george	kottayam

SQL> select * from salesorder;

ORDERNO	CLIENTNO	ORDERDATE
0	101	01-JUN-13
1	103	01-FEB-13
2	103	21-MAR-13
3	102	02-MAR-13
4	105	02-APR-13

```
SQL> select * from salesmaster;
```

SALESMANNO	SNAME	CITY
1	biju	mumbai
2	amith	mumbai
3	sreelal	kannur
4	anoop	thrissu
5	goutham	pala

```
CREATE TABLE clientmaster  
(  
    clientno int PRIMARY KEY,  
    cname varchar(78),  
    city varchar(40)  
);
```

```
CREATE TABLE salesorder  
(  
    ordno varchar(20) UNIQUE CHECK (ordno like 0%),  
    clientno int, FOREIGN KEY(client) REFERENCES  
clientmaster(clientno),  
    orderd date  
);
```

```
CREATE TABLE salesmaster  
(  
    salesmanno int PRIMARY KEY,  
    sname varchar(54),  
    city varchar(33)  
);
```

```

insert into clientmaster VALUES (101,"senchu","kannur");
insert into clientmaster VALUES (102,"sobin","kannur");
insert into clientmaster VALUES (103,"sajan","mumbai");
insert into clientmaster VALUES (104,"siju","gujarat");
insert into clientmaster VALUES (105,"george","kottayam");

```

```

insert into salesorder values("00",101,'2013-06-01');
insert into salesorder values("01",103,'2013-02-01');
insert into salesorder values("02",103,'2013-03-21');
insert into salesorder values("03",102,'2013-03-02');
insert into salesorder values("04",105,'2013-04-02');

```

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

```

SELECT * FROM salesorder WHERE clientno IN (SELECT clientno
FROM clientmaster WHERE cname = 'sajan');

```

+ Options		
← T →	ordno	clientno
<input type="checkbox"/> Edit Copy Delete	01	103
<input type="checkbox"/> Edit Copy Delete	02	103

b)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");

```

+ Options	
cname	sname
sajan	biju
sajan	amith

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

```
SELECT c.cname,s.orderd,s.ordno FROM clientmaster c,salesorder s
WHERE c.clientno IN (SELECT s.clientno from salesorder);
```

+ Options

cname	orderd	ordno
senchu	2013-06-01	00
sajan	2013-02-01	01
sajan	2013-03-21	02
sobin	2013-03-02	03
george	2013-04-02	04

EXPERIMENT NO.10 : 14/06/2021

VIEW TABLE

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

CREATE VIEW view1 AS SELECT orderno, orderd FROM salesorder ;

```
mysql> CREATE VIEW view1 AS SELECT orderno, orderd FROM salesorder ;
Query OK, 0 rows affected (0.02 sec)
```

2. Describe the view view1

DESC view1;

```
mysql> DESC view1;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| orderno | varchar(20) | YES  |     | NULL    |       |
| orderd  | date         | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

3. Display Values of view1:

select * from view1;

```
mysql> select * from view1;
+-----+-----+
| orderno | orderd |
+-----+-----+
| 00      | 2013-06-01 |
| 01      | 2013-02-01 |
| 02      | 2013-03-21 |
| 03      | 2013-03-02 |
| 04      | 2013-04-02 |
+-----+-----+
5 rows in set (0.00 sec)
```

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

insert into view1 values(05,'2013-07-01');

```
mysql> insert into view1 values(05,'2013-07-01');
ERROR 3819 (HY000): Check constraint 'salesorder_chk_1' is violated.
mysql> CREATE VIEW view1 AS SELECT clientno, cname FROM clientmaster ;
```

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

```
CREATE VIEW view2 AS SELECT clientno, cname FROM clientmaster ;
```

```
mysql> CREATE VIEW view2 AS SELECT clientno, cname FROM clientmaster ;  
Query OK, 0 rows affected (0.01 sec)
```

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

```
insert into view2 values(106,'Abhijith');
```

```
mysql> insert into view2 values(106,'Abhijith');  
Query OK, 1 row affected (0.01 sec)
```

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

```
CREATE VIEW view3 AS SELECT * FROM salesmaster ;
```

```
mysql> CREATE VIEW view3 AS SELECT * FROM salesmaster ;  
Query OK, 0 rows affected (0.01 sec)
```

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

```
CREATE VIEW view4 AS SELECT c.cname,c.city,s.sname FROM salesmaster s, clientmaster c where s.city=c.city;
```

```
ERROR 1060 (42S21): Duplicate column name 'city'  
mysql> CREATE VIEW view4 AS SELECT c.cname,city,s.sname FROM salesmaster s, clientmaster c where s.city=c.city;  
ERROR 1052 (23000): Column 'city' in field list is ambiguous  
mysql> CREATE VIEW view4 AS SELECT c.cname,c.city,s.sname FROM salesmaster s, clientmaster c where s.city=c.city;  
Query OK, 0 rows affected (0.01 sec)
```

9. Describe view4

```
DESC view4;
```

```
mysql> DESC view4;
```

Field	Type	Null	Key	Default	Extra
cname	varchar(78)	YES		NULL	
city	varchar(40)	YES		NULL	
sname	varchar(54)	YES		NULL	

3 rows in set (0.00 sec)

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

insert into view4 values('sachin','kochi','dani','kottayam');

```
mysql> insert into view4 values('sachin','kochi','dani','kottayam');
ERROR 1394 (HY000): Can not insert into join view 'db.view4' without fields list
```

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

create view view5 as select cname,sname from view4;

```
mysql> create view view5 as select cname,sname from view4;
Query OK, 0 rows affected (0.01 sec)
```

12.Describe view5:

desc view5;

```
mysql> desc view5;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| cname | varchar(78)   | YES  |     | NULL    |       |
| sname | varchar(54)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

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

insert into view5 (cname,sname) values ("john","amal");

```
mysql> insert into view5 (cname,sname) values ("john","amal");
ERROR 1356 (HY000): View 'db.view5' references invalid table(s) or column(s) or function(s) or definer/invoker of view lack rights to use them
```

14.Delete the view4 table

drop view view4;

```
mysql> drop view view4;
Query OK, 0 rows affected (0.01 sec)
```

15.Delete the view5 table.

drop view view5;

```
mysql> drop view view5;
Query OK, 0 rows affected (0.01 sec)
```


