

Assignment No 8

Write DDL statements to create VIEWS on single and multiple tables from Order Management DB.

Do the following operation to demonstrate the use of view:

- Update the base table
- Insert new record in the base table.
- Delete record in the base table.
- DML on VIEW.

What are the restrictions applicable while creating or modifying views? Demonstrate using suitable queries.

```
mysql> create view city_pune as select c_id,c_name,c_city from customer where c_city='pune';
```

```
mysql> create view daily_orders as select o_date,count(c_id),avg(amount),count(o_id) from orders group by o_date;
```

```
mysql> create view orders_above_one as select c.c_id,c.c_name,count(items) from customer c inner join orders o on c.c_id=o.o_id where count(items)>1;
```

```
mysql> select * from city_pune;
+-----+
| c_id | c_name | c_city |
+-----+
| 1    | anish  | pune   |
| 4    | radhika| pune   |
| 6    | anish  | pune   |
+-----+
3 rows in set (0.03 sec)

mysql> select * from daily_orders;
+-----+
| o_date      | count(c_id) | avg(amount) | count(o_id) |
+-----+
| 2020-09-01  | 1           | 2000.0000   | 1           |
| 2018-09-01  | 1           | 800.0000    | 1           |
| 2021-07-01  | 1           | 50.0000     | 1           |
| 2020-06-12  | 1           | 1700.0000   | 1           |
| 2020-05-05  | 2           | 650.0000    | 2           |
+-----+
5 rows in set (0.02 sec)

mysql> select * from orders_above one;
ERROR 1146 (42S02): Table 'a1.orders_above' doesn't exist
mysql> select * from orders_above_one;
+-----+
| c_name | count(o.o_id) |
+-----+
| anish  | 2             |
| radhika| 2             |
+-----+
2 rows in set (0.00 sec)
```

2) Insert new record in the base table.

```
mysql> insert into customer values(11,"rohit",1234,"pune","maharashtra","rohit@gmail.com");
Query OK, 1 row affected (0.05 sec)

mysql> select * from customer;
+-----+-----+-----+-----+-----+-----+
| c_id | c_name | c_mobile | c_city | c_state | c_email |
+-----+-----+-----+-----+-----+-----+
| 1 | anish | 111 | pune | maharashtra | anish@gmail.com |
| 2 | bhumi | 222 | mumbai | maharashtra | bhumi@gmail.com |
| 3 | daniel | 333 | mumbai | maharashtra | daniel@gmail.com |
| 4 | radhika | 444 | pune | maharashtra | radhika@gmail.com |
| 5 | mitesh | 555 | nagpur | maharashtra | mitesh@gmail.com |
| 6 | anish | 666 | pune | maharashtra | anish@gmail.com |
| 7 | archit | 777 | banglore | karnataka | archit@gmail.com |
| 8 | sahil | 888 | surat | gujrat | sahil@gmail.com |
| 9 | anvesh | 999 | srinagar | J&K | anvesh@gmail.com |
| 10 | raghuram | 1111 | chennai | Tamil Nadu | raghu@gmail.com |
| 11 | rohit | 1234 | pune | maharashtra | rohit@gmail.com |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)

mysql> select * from city_pune;
+-----+-----+-----+
| c_id | c_name | c_city |
+-----+-----+-----+
| 1 | anish | pune |
| 4 | radhika | pune |
| 6 | anish | pune |
| 11 | rohit | pune |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

3) Update the base table

```
mysql> update customer set c_name="parth" where c_id=11;
Query OK, 1 row affected (0.04 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from customer;
+-----+-----+-----+-----+-----+-----+
| c_id | c_name | c_mobile | c_city | c_state | c_email |
+-----+-----+-----+-----+-----+-----+
| 1 | anish | 111 | pune | maharashtra | anish@gmail.com |
| 2 | bhumi | 222 | mumbai | maharashtra | bhumi@gmail.com |
| 3 | daniel | 333 | mumbai | maharashtra | daniel@gmail.com |
| 4 | radhika | 444 | pune | maharashtra | radhika@gmail.com |
| 5 | mitesh | 555 | nagpur | maharashtra | mitesh@gmail.com |
| 6 | anish | 666 | pune | maharashtra | anish@gmail.com |
| 7 | archit | 777 | banglore | karnataka | archit@gmail.com |
| 8 | sahil | 888 | surat | gujrat | sahil@gmail.com |
| 9 | anvesh | 999 | srinagar | J&K | anvesh@gmail.com |
| 10 | raghuram | 1111 | chennai | Tamil Nadu | raghu@gmail.com |
| 11 | parth | 1234 | pune | maharashtra | rohit@gmail.com |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.01 sec)

mysql> select * from city_pune;
+-----+-----+-----+
| c_id | c_name | c_city |
+-----+-----+-----+
| 1 | anish | pune |
| 4 | radhika | pune |
| 6 | anish | pune |
| 11 | parth | pune |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

4) Delete record in the base table.

```
mysql> delete from customer where c_name="parth";
Query OK, 1 row affected (0.05 sec)

mysql> select * from customer;
+-----+-----+-----+-----+-----+-----+
| c_id | c_name | c_mobile | c_city | c_state | c_email |
+-----+-----+-----+-----+-----+-----+
| 1 | anish | 111 | pune | maharashtra | a@gmail.com |
| 2 | bhumi | 222 | mumbai | maharashtra | bhumi@gmail.com |
| 3 | daniel | 333 | mumbai | maharashtra | daniel@gmail.com |
| 4 | radhika | 444 | pune | maharashtra | radhika@gmail.com |
| 5 | mitesh | 555 | nagpur | maharashtra | mitesh@gmail.com |
| 6 | anish | 666 | pune | maharashtra | anish@gmail.com |
| 7 | archit | 777 | banglore | karnataka | archit@gmail.com |
| 8 | sahil | 888 | surat | gujrat | sahil@gmail.com |
| 9 | anvesh | 999 | srinagar | J&K | anvesh@gmail.com |
| 10 | raghuram | 1111 | chennai | Tamil Nadu | raghu@gmail.com |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> select * from city_pune;
+-----+-----+-----+
| c_id | c_name | c_city |
+-----+-----+-----+
| 1 | anish | pune |
| 4 | radhika | pune |
| 6 | anish | pune |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

5) DML on VIEW.

-UPDATE

```
mysql> update city_pune set c_name="aneesh" where c_id=6;
Query OK, 1 row affected (0.05 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from city_pune;
+-----+-----+-----+
| c_id | c_name | c_city |
+-----+-----+-----+
| 1 | anish | pune |
| 4 | radhika | pune |
| 6 | aneesh | pune |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from customer;
+-----+-----+-----+-----+-----+-----+
| c_id | c_name | c_mobile | c_city | c_state | c_email |
+-----+-----+-----+-----+-----+-----+
| 1 | anish | 111 | pune | maharashtra | a@gmail.com |
| 2 | bhumi | 222 | mumbai | maharashtra | bhumi@gmail.com |
| 3 | daniel | 333 | mumbai | maharashtra | daniel@gmail.com |
| 4 | radhika | 444 | pune | maharashtra | radhika@gmail.com |
| 5 | mitesh | 555 | nagpur | maharashtra | mitesh@gmail.com |
| 6 | aneesh | 666 | pune | maharashtra | anish@gmail.com |
| 7 | archit | 777 | banglore | karnataka | archit@gmail.com |
| 8 | sahil | 888 | surat | gujrat | sahil@gmail.com |
| 9 | anvesh | 999 | srinagar | J&K | anvesh@gmail.com |
| 10 | raghuram | 1111 | chennai | Tamil Nadu | raghu@gmail.com |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

-INSERT

```
mysql> select * from customer;
```

c_id	c_name	c_mobile	c_city	c_state	c_email
1	anish	111	pune	maharashtra	a@gmail.com
2	bhumi	222	mumbai	maharashtra	bhumi@gmail.com
3	daniel	333	mumbai	maharashtra	daniel@gmail.com
4	radhika	444	pune	maharashtra	radhika@gmail.com
5	mitesh	555	nagpur	maharashtra	mitesh@gmail.com
6	aneesh	666	pune	maharashtra	anish@gmail.com
7	archit	777	banglore	karnataka	archit@gmail.com
8	sahil	888	surat	gujrat	sahil@gmail.com
9	anvesh	999	srinagar	J&K	anvesh@gmail.com
10	raghuram	1111	chennai	Tamil Nadu	raghu@gmail.com

```
10 rows in set (0.00 sec)
```

```
mysql> insert into city_pune values (11,rohit,"delhi");
ERROR 1054 (42S22): Unknown column 'rohit' in 'field list'
mysql> insert into city_pune values (11,"rohit","delhi");
Query OK, 1 row affected (0.04 sec)
```

```
mysql> select * from customer;
```

c_id	c_name	c_mobile	c_city	c_state	c_email
1	anish	111	pune	maharashtra	a@gmail.com
2	bhumi	222	mumbai	maharashtra	bhumi@gmail.com
3	daniel	333	mumbai	maharashtra	daniel@gmail.com
4	radhika	444	pune	maharashtra	radhika@gmail.com
5	mitesh	555	nagpur	maharashtra	mitesh@gmail.com
6	aneesh	666	pune	maharashtra	anish@gmail.com
7	archit	777	banglore	karnataka	archit@gmail.com
8	sahil	888	surat	gujrat	sahil@gmail.com
9	anvesh	999	srinagar	J&K	anvesh@gmail.com
10	raghuram	1111	chennai	Tamil Nadu	raghu@gmail.com
11	rohit	NULL	delhi	NULL	NULL

```
11 rows in set (0.00 sec)
```

```
mysql>
```

-DELETE

```
mysql> update customer set c_city="pune" where c_id=11;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from city_pune;
```

c_id	c_name	c_city
1	anish	pune
4	radhika	pune
6	aneesh	pune
11	rohit	pune

```
4 rows in set (0.00 sec)
```

```
mysql> delete from city_pune where c_id=11;
Query OK, 1 row affected (0.13 sec)
```

```
mysql> select * from city_pune;
```

c_id	c_name	c_city
1	anish	pune
4	radhika	pune
6	aneesh	pune

```
3 rows in set (0.00 sec)
```

```
mysql> select * from customer;
```

c_id	c_name	c_mobile	c_city	c_state	c_email
1	anish	111	pune	maharashtra	a@gmail.com
2	bhumi	222	mumbai	maharashtra	bhumi@gmail.com
3	daniel	333	mumbai	maharashtra	daniel@gmail.com
4	radhika	444	pune	maharashtra	radhika@gmail.com
5	mitesh	555	nagpur	maharashtra	mitesh@gmail.com
6	aneesh	666	pune	maharashtra	anish@gmail.com
7	archit	777	banglore	karnataka	archit@gmail.com
8	sahil	888	surat	gujrat	sahil@gmail.com
9	anvesh	999	srinagar	J&K	anvesh@gmail.com
10	raghuram	1111	chennai	Tamil Nadu	raghu@gmail.com

```
10 rows in set (0.00 sec)
```