

## VIEWS IN MYSQL

### 1. CREATE VIEW:

```
mysql> create view details as select
-> src,dest,arr_time,dep_time from flights
-> where f_id < 21404;
Query OK, 0 rows affected (0.03 sec)

mysql> select * from details;
+-----+-----+-----+-----+
| src    | dest    | arr_time | dep_time |
+-----+-----+-----+-----+
| Mumbai | Chennai | 15:00:00 | 17:00:00 |
| Goa     | Pune     | 20:00:00 | 21:00:00 |
| Pune    | Kolkata  | 10:00:00 | 11:00:00 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

### 2.UPDATE VIEW:

```
mysql> create view detail3 as select flight.f_id,
-> flight.dest,details.arr_time
-> from flight,details
-> where flight.arr_time = details.arr_time;
Query OK, 0 rows affected (0.03 sec)

mysql> select * from detail3;
+-----+-----+-----+
| f_id | dest    | arr_time |
+-----+-----+-----+
| 21401 | Chennai | 15:00:00 |
| 21402 | Pune     | 20:00:00 |
| 21404 | Punjab   | 20:00:00 |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

### 3. VIEW WITH CHECK OPTION:

```
mysql> create view sampleview as select
-> f_id,dest from flight
-> where src is not null with check option;
Query OK, 0 rows affected (0.03 sec)

mysql> select * from sampleview;
+-----+-----+
| f_id | dest    |
+-----+-----+
| 21401 | Chennai |
| 21402 | Pune     |
| 21404 | Punjab   |
| 21405 | Goa      |
+-----+-----+
4 rows in set (0.00 sec)
```

#### 4. DELETING VIEW:

```
mysql> delete from details
-> where dest = 'Pune';
Query OK, 1 row affected (0.02 sec)

mysql> select * from details;
+-----+-----+-----+-----+
| src    | dest    | arr_time | dep_time |
+-----+-----+-----+-----+
| Mumbai | Chennai | 15:00:00 | 17:00:00 |
| Pune   | Kolkata | 10:00:00 | 11:00:00 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

#### TRIGGERS IN MYSQL

##### QUERY 1:

```
mysql> create table Pass (user_id int(10) , Name varchar(20) , P_no varchar(15) , seat_no int(5) , f_id int(10));
Query OK, 0 rows affected, 3 warnings (0.04 sec)

mysql> desc Pass;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| user_id | int           | YES  |     | NULL    |       |
| Name    | varchar(20)   | YES  |     | NULL    |       |
| P_no    | varchar(15)   | YES  |     | NULL    |       |
| seat_no | int           | YES  |     | NULL    |       |
| f_id    | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

##### QUERY 2:

```
mysql> Delimiter $$
mysql> create trigger pass_name
-> after insert on Pass
-> for each row
-> begin
-> update Pass set pass_seat = concat(new.Name, ' ', new.seat_no) where user_id = New.user_id;
-> end $$
Query OK, 0 rows affected (0.01 sec)
```

### QUERY 3:

```
mysql> insert into PassName (userid, Name, seatno, PassSeat)
-> values (1200, 'Roshan', 124, 'Roshan_124');
Query OK, 1 row affected (0.03 sec)

mysql> insert into PassName (userid, Name, seatno, PassSeat)
-> values (1301, 'Ramesh', 120, 'Ramesh_120'),
-> (1000, 'Suresh', 180, 'Suresh_180'),
-> (1090, 'Keshav', 190, 'Keshav_190'),
-> (1190, 'Purav', 110, 'Purav_110');
Query OK, 4 rows affected (0.03 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

### QUERY 4:

```
mysql> select * from PassName;
+-----+-----+-----+-----+
| userid | Name   | seatno | PassSeat |
+-----+-----+-----+-----+
| 1200   | Roshan | 124    | Roshan_124 |
| 1301   | Ramesh | 120    | Ramesh_120 |
| 1000   | Suresh | 180    | Suresh_180 |
| 1090   | Keshav | 190    | Keshav_190 |
| 1190   | Purav  | 110    | Purav_110  |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```