

MYSQL Assignment No:5

Aim: Execute DDL statements which demonstrate the use of views and Indexing. Try to update the base table using its corresponding view. Also consider restrictions on updatable views and perform view creation from multiple tables.

- mysql> CREATE DATABASE Saranya;
Query OK, 1 row affected (0.02 sec)
- mysql> USE Saranya
Database changed
- ◆ mysql> CREATE TABLE Location (Location_Id INT PRIMARY KEY, Regional_Group VARCHAR(20));
Query OK, 0 rows affected (0.06 sec)
- mysql> INSERT INTO Location (Location_Id, Regional_Group) VALUES
-> (1, 'Thiruvananthapuram'),
-> (2, 'Kollam'),
-> (3, 'Pathanamthitta'),
-> (4, 'Alappuzha'),
-> (5, 'Kottayam'),
-> (6, 'Idukki'),
-> (7, 'Ernakulam'),
-> (8, 'Thrissur'),
-> (9, 'Palakkad'),
-> (10, 'Malappuram');
Query OK, 10 rows affected (0.01 sec)
Records: 10 Duplicates: 0 Warnings: 0
- ◆ mysql> CREATE VIEW Location_view AS SELECT Regional_Group FROM Location;
Query OK, 0 rows affected (0.04 sec)
- mysql> SELECT * FROM Location_view;
+-----+
| Regional_Group |
+-----+
| Thiruvananthapuram |
| Kollam |
| Pathanamthitta |
| Alappuzha |
| Kottayam |
| Idukki |
| Ernakulam |
| Thrissur |
| Palakkad |
| Malappuram |
+-----+
10 rows in set (0.00 sec)
- ◆ mysql> DROP VIEW Location_view;
Query OK, 0 rows affected (0.02 sec)
- ◆ mysql> CREATE VIEW Location_view AS SELECT * FROM Location;
Query OK, 0 rows affected (0.02 sec)

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

- Query OK, 0 rows affected (0.02 sec)

- Records: 0 Duplicates: 0 Warnings: 0

- ```
mysql> SHOW INDEXES FROM Location;
```
- | Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |
|----------|------------|-----------|--------------|-------------|-----------|-------------|----------|--------|------|------------|---------|---------------|---------|------------|
| Location | 0 | PRIMARY | 1 | Location_Id | A | 10 | NULL | NULL | | BTREE | | | YES | NULL |
| Location | 1 | new_index | 1 | Location_Id | A | 10 | NULL | NULL | | BTREE | | | YES | NULL |
- 2 rows in set (0.02 sec)

- Records: 0 Duplicates: 0 Warnings: 0

- ```
mysql> SHOW INDEXES FROM Location;
```
- | Table    | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |
|----------|------------|----------|--------------|-------------|-----------|-------------|----------|--------|------|------------|---------|---------------|---------|------------|
| Location | 0          | PRIMARY  | 1            | Location_Id | A         | 10          | NULL     | NULL   |      | BTREE      |         |               | YES     | NULL       |
- 1 row in set (0.00 sec)