## MYSQL Assignment No:5

<u>Aim</u>: 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 Adarsh;
 Query OK, 1 row affected (0.02 sec)
mysql> USE Adarsh
 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'),
     -> (1, 'Infruvanantnapura

-> (2, 'Kollam'),

-> (3, 'Pathanamthitta'),

-> (4, 'Alappuzha'),

-> (5, 'Kottayam'),

-> (6, 'Idukki'),

-> (7, 'Ernakulam'),

-> (8, 'Thrissur'),

-> (9, 'Palakkad')
     -> (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)

- mysql> DROP VIEW Location\_view; Query OK, 0 rows affected (0.02 sec)
- → mysql> CREATE INDEX new\_index ON Location(Location\_ID); Query OK, 0 rows affected (0.11 sec) Records: 0 Duplicates: 0 Warnings: 0
- mysql> SHOW INDEXES FROM Location;

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     Location		PRIMARY new_index		Location_Id Location_Id		10 10	NULL NULL	NULL   NULL		BTREE   BTREE			YES YES	NULL   NULL
2 rows in se	rows in set (8.62 sec)													

- ♦ mysql> ALTER TABLE Location DROP INDEX new\_index; Query OK, 0 rows affected (0.03 sec) Records: 0 Duplicates: 0 Warnings: 0
- mysql> SHOW INDEXES FROM Location;

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)