

OUTPUT OF ASSIGNMENT 2

- **DDL COMMANDS :**

1.Creating Database and Table :

```
MySQL 8.0 Command Line Client

mysql> CREATE DATABASE assign2;
Query OK, 1 row affected (0.02 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| assign2  |
| info     |
| information_schema |
| mysql    |
| performance_schema |
| sakila   |
| sys      |
| taxidb   |
| world    |
+-----+
9 rows in set (0.01 sec)

mysql> use assign2
Database changed
mysql> CREATE TABLE drivers (
    -> d_name varchar(30) ,
    -> d_email varchar(30),
    -> d_phone INTEGER(15),
    -> d_address varchar(50)
    -> );
Query OK, 0 rows affected, 1 warning (0.13 sec)

mysql> show tables;
+-----+
| Tables_in_assign2 |
+-----+
| drivers            |
+-----+
1 row in set (0.00 sec)

mysql>
```

2 .MODIFYING TABLE (USE OF ALTER COMMAND) :

```
MySQL 8.0 Command Line Client

mysql> ALTER TABLE drivers
  -> ADD license_no INTEGER(15);
Query OK, 0 rows affected, 1 warning (0.07 sec)
Records: 0 Duplicates: 0 Warnings: 1

mysql> show columns from drivers;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| d_name     | varchar(30)   | YES  |     | NULL    |       |
| d_email    | varchar(30)   | YES  |     | NULL    |       |
| d_phone    | int           | YES  |     | NULL    |       |
| d_address  | varchar(50)   | YES  |     | NULL    |       |
| license_no | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> ALTER TABLE drivers
  -> DROP COLUMN license_no;
Query OK, 0 rows affected (0.16 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> show columns from drivers;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| d_name     | varchar(30)   | YES  |     | NULL    |       |
| d_email    | varchar(30)   | YES  |     | NULL    |       |
| d_phone    | int           | YES  |     | NULL    |       |
| d_address  | varchar(50)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> █
```

3.RENAME TABLE :

```
mysql> RENAME TABLE drivers to driver_info;
Query OK, 0 rows affected (0.07 sec)

mysql> show columns from driver_info;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| d_name     | varchar(30)   | YES  |     | NULL    |       |
| d_email    | varchar(30)   | YES  |     | NULL    |       |
| d_phone    | int           | YES  |     | NULL    |       |
| d_address  | varchar(50)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.04 sec)

mysql> 
```

4.TRUNCATE TABLE :

```
mysql> TRUNCATE TABLE driver_info;
Query OK, 0 rows affected (0.09 sec)

mysql> SELECT * FROM driver_info;
Empty set (0.01 sec)
```

5.DROP TABLE :

```
mysql> DROP TABLE driver_info;
Query OK, 0 rows affected (0.05 sec)

mysql> SHOW FULL TABLES FROM assign2;
Empty set (0.00 sec)
```

• VIEWS :

1.CREATING VIEW :

```
mysql> CREATE VIEW view_1 AS SELECT d_name, d_address FROM drivers ;
Query OK, 0 rows affected (0.02 sec)

mysql> SELECT * FROM view1;
ERROR 1146 (42S02): Table 'assign2.view1' doesn't exist
mysql> SELECT * FROM view_1;
+-----+-----+
| d_name | d_address |
+-----+-----+
| bhavik | pune      |
| rithvik | mumbai    |
| gaurav  | solapur   |
| advait  | delhi     |
+-----+-----+
4 rows in set (0.00 sec)
```

2. UPDATING VIEW

```
mysql> UPDATE view_1
    -> SET d_address = 'nagpur'
    -> WHERE d_name = 'advait';
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM view_1;
+-----+-----+
| d_name | d_address |
+-----+-----+
| bhavik | pune      |
| rithvik | mumbai    |
| gaurav  | solapur   |
| advait  | nagpur    |
+-----+-----+
4 rows in set (0.00 sec)
```

3.DROPPING VIEW :

```
mysql> show tables;
+-----+
| Tables_in_assign2 |
+-----+
| drivers            |
| view_1             |
+-----+
2 rows in set (0.01 sec)

mysql> DROP VIEW view_1;
Query OK, 0 rows affected (0.01 sec)

mysql> show tables;
+-----+
| Tables_in_assign2 |
+-----+
| drivers            |
+-----+
1 row in set (0.00 sec)

mysql> █
```

- **INDEX :**

1.CREATING AND DISPLAYING INDEX :-

```
mysql> CREATE INDEX index_1 ON drivers(d_name);
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> CREATE INDEX index_2 ON drivers(d_name,d_phone);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> SHOW INDEX FROM drivers;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
drivers	1	index_1	1	d_name	A	4	NULL	NULL	YES	BTREE			YES	NULL
drivers	1	index_2	1	d_name	A	4	NULL	NULL	YES	BTREE			YES	NULL
drivers	1	index_2	2	d_phone	A	4	NULL	NULL	YES	BTREE			YES	NULL

3 rows in set (0.03 sec)

2.DROP INDEX:-

```
mysql> DROP INDEX index_2 ON drivers;
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> SHOW INDEX FROM drivers;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
drivers	1	index_1	1	d_name	A	4	NULL	NULL	YES	BTREE			YES	NULL

1 row in set (0.01 sec)

● SEQUENCE :-

(Used as AUTO_INCREMENT, IN MYSQL)

```
mysql> ALTER TABLE drivers
  -> ADD driver_id int(15) NOT NULL AUTO_INCREMENT,
  -> ADD PRIMARY KEY (driver_id);
Query OK, 0 rows affected, 1 warning (0.08 sec)
Records: 0  Duplicates: 0  Warnings: 1

mysql> INSERT INTO drivers (d_name,d_email,d_phone,d_address) VALUES
  -> ('adesh','adesh@gmail.com','5050505050','mumbai');
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM drivers;
```

d_name	d_email	d_phone	d_address	driver_id
bhavik	bhavik@gmail.com	9090909090	pune	1
rithvik	rithvik@gmail.com	8080808080	mumbai	2
gaurav	gaurav@gmail.com	7070707070	solapur	3
advait	advait@gmail.com	6060606060	nagpur	4
adesh	adesh@gmail.com	5050505050	mumbai	5

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

• SYNONYMS:-

```
mysql> CALL sys.create_synonym_db('assign2','info');
+-----+
| summary |
+-----+
| Created 1 view in the `info` database |
+-----+
1 row in set (0.05 sec)

Query OK, 0 rows affected (0.06 sec)

mysql> SHOW FULL TABLES FROM info;
```

Tables_in_info	Table_type
drivers	VIEW

```
1 row in set (0.00 sec)
```


