

## WEEK 2 - SESSION 8 :

```
mysql> CREATE TABLE Users (
->   user_id INT PRIMARY KEY AUTO_INCREMENT,
->   username VARCHAR(50),
->   email VARCHAR(100),
->   aadhar VARCHAR(12),
->   status VARCHAR(20),
->   created_at DATETIME
-> );
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> INSERT INTO Users (username, email, aadhar, status, created_at) VALUES
-> ('rahul01', 'rahul@gmail.com', '123456789012', 'active', NOW()),
-> ('ananya02', 'ananya@gmail.com', '234567890123', 'inactive', NOW()),
-> ('kiran03', 'kiran@gmail.com', '345678901234', 'active', NOW()),
-> ('sneha04', 'sneha@gmail.com', '456789012345', 'active', NOW()),
-> ('arjun05', 'arjun@gmail.com', '567890123456', 'inactive', NOW());
```

Query OK, 5 rows affected (0.02 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> CREATE INDEX idx_email
-> ON Users(email);
```

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> SHOW INDEX FROM Users;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment	Visible	Expression
users	0	PRIMARY	1	user_id	A	5		NULL	NULL	BTREE				
users	1	idx_email	1	email	A	5		NULL	NULL	BTREE	YES			

2 rows in set (0.03 sec)

```
mysql> CREATE UNIQUE INDEX idx_unique_username
-> ON Users(username);
```

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO Users (username, email, aadhar, status, created_at)
-> VALUES ('rahul01', 'test@gmail.com', '678901234567', 'active', NOW());
```

ERROR 1062 (23000): Duplicate entry 'rahul01' for key 'users.idx\_unique\_username'

mysql> Error: Duplicate entry 'rahul01' for key 'idx\_unique\_username'

```
-> SHOW INDEX FROM Users;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Error: Duplicate entry 'rahul01' for key 'idx\_unique\_username'

SHOW INDEX FROM U' at line 1

```
mysql> DROP INDEX idx_email ON Users;
```

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> SELECT * FROM Users
```

```
-> WHERE aadhar = '123456789012';
+-----+-----+-----+-----+
| user_id | username | email      | aadhar   | status | created_at   |
+-----+-----+-----+-----+
| 1 | rahul01 | rahul@gmail.com | 123456789012 | active | 2026-02-10 14:50:19 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> CREATE INDEX idx_aadhar
      -> ON Users(aadhar);
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> CREATE INDEX idx_status_created
      -> ON Users(status, created_at);
Query OK, 0 rows affected (0.05 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM Users
      -> WHERE status = 'active'
      -> ORDER BY created_at DESC;
+-----+-----+-----+-----+
| user_id | username | email      | aadhar   | status | created_at   |
+-----+-----+-----+-----+
| 4 | sneha04 | sneha@gmail.com | 456789012345 | active | 2026-02-10 14:50:19 |
| 3 | kiran03 | kiran@gmail.com | 345678901234 | active | 2026-02-10 14:50:19 |
| 1 | rahul01 | rahul@gmail.com | 123456789012 | active | 2026-02-10 14:50:19 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> CREATE VIEW Active_Users AS
      -> SELECT username, email, status
      -> FROM Users
      -> WHERE status = 'active';
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> SELECT * FROM Active_Users;
+-----+-----+-----+
| username | email      | status   |
+-----+-----+-----+
| rahul01 | rahul@gmail.com | active |
| kiran03 | kiran@gmail.com | active |
| sneha04 | sneha@gmail.com | active |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql>
```