

## 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	BTREE			YES	
users	1	idx_email	1	email	A	5			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>