

WEEK 2

SQL BUILT IN FUNCTIONS

```
mysql> CREATE DATABASE company_ops_db;
Query OK, 1 row affected (0.07 sec)

mysql> USE company_ops_db;
Database changed
mysql> CREATE TABLE user_account (
  ->     user_id INT PRIMARY KEY AUTO_INCREMENT,
  ->     email VARCHAR(100),
  ->     mobile VARCHAR(25),
  ->     phone VARCHAR(25)
  -> );
Query OK, 0 rows affected (0.10 sec)

mysql> CREATE TABLE employee (
  ->     emp_id INT PRIMARY KEY AUTO_INCREMENT,
  ->     emp_name VARCHAR(100),
  ->     department VARCHAR(50),
  ->     joining_date DATE
  -> );
Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO user_account (email, mobile, phone) VALUES
  -> ('karthik@gmail.com', '98765 43210', NULL),
  -> ('meena@yahoo.com', NULL, '044-234-5678'),
  -> ('john@outlook.com', NULL, NULL);
Query OK, 3 rows affected (0.03 sec)
Records: 3  Duplicates: 0  Warnings: 0

mysql> INSERT INTO employee (emp_name, department, joining_date) VALUES
  -> ('kaRthik raJa', 'IT', '2020-01-10'),
  -> ('MEENA devi', 'HR', '2018-05-20'),
  -> ('joHN SMith', 'IT', '2022-07-01');
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

TASK 1:

```
mysql> SELECT
  ->     email,
  ->     CONCAT(SUBSTRING_INDEX(email, '@', 1), '123') AS default_password
  -> FROM user_account;
+-----+-----+
| email          | default_password |
+-----+-----+
| karthik@gmail.com | karthik123      |
| meena@yahoo.com  | meena123        |
| john@outlook.com | john123         |
+-----+-----+
3 rows in set (0.03 sec)
```

TASK 2:

```
mysql> SELECT
->     email,
->     REGEXP_REPLACE(COALESCE(mobile, phone), '^[0-9]', '') AS valid_contact
-> FROM user_account;
+-----+-----+
| email          | valid_contact |
+-----+-----+
| karthik@gmail.com | 9876543210   |
| meena@yahoo.com  | 0442345678   |
| john@outlook.com | NULL         |
+-----+-----+
3 rows in set (0.02 sec)
```

TASK 3:

```
mysql> SELECT
->     emp_name,
->     CONCAT(
->         UPPER(SUBSTRING(emp_name, 1, 1)),
->         LOWER(SUBSTRING(emp_name, 2))
->     ) AS normalized_name
-> FROM employee;
+-----+-----+
| emp_name      | normalized_name |
+-----+-----+
| kaRThik raJa | Karthik raja   |
| MEENA devi   | Meena devi     |
| joHN SMith   | John smith     |
+-----+-----+
3 rows in set (0.02 sec)
```

TASK 4:

```
mysql> SELECT
->     email,
->     COALESCE(mobile, phone, email) AS preferred_contact
-> FROM user_account;
+-----+-----+
| email          | preferred_contact |
+-----+-----+
| karthik@gmail.com | 98765 43210      |
| meena@yahoo.com  | 044-234-5678     |
| john@outlook.com | john@outlook.com |
+-----+-----+
3 rows in set (0.00 sec)
```

TASK 5:

```
mysql> SELECT
->     department,
->     AVG(TIMESTAMPDIFF(YEAR, joining_date, CURDATE())) AS avg_experience_years
-> FROM employee
-> GROUP BY department;
+-----+-----+
| department | avg_experience_years |
+-----+-----+
| IT         | 4.5000              |
| HR         | 7.0000              |
+-----+-----+
2 rows in set (0.03 sec)

mysql> |
```