TASK 8: STORED PROCEDURES AND FUNCTIONS DONE BY ALEFIYA JOHARBHAI MANAGORI

1. USE CREATE PROCEDURE AND CREATE FUNCTION

```
mysql> DELIMITER //
mysql> CREATE FUNCTION CalculateDiscount(price DECIMAL(10,2), discount percent INT)
 -> RETURNS DECIMAL(10,2)
 -> DETERMINISTIC
 -> BEGIN
 -> RETURN price - (price * discount percent / 100);
 -> END //
Query OK, 0 rows affected (0.01 sec)
mysql> DELIMITER;
mysql> SELECT CalculateDiscount(1000.00, 10) AS discounted_price;
+----+
| discounted price |
+----+
    900.00
+----+
1 row in set (0.01 sec)
mysgl> DROP PROCEDURE IF EXISTS GetOrdersByUser;
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql> DELIMITER //
mysql> CREATE PROCEDURE GetOrdersByUser(IN uid INT)
 -> BEGIN
 -> SELECT o.order_no, o.order_date, o.order_amount
 -> FROM Orders o
 -> WHERE o.user id = uid;
 -> END //
Query OK, 0 rows affected (0.01 sec)
mysql> DELIMITER;
mysql> CALL GetOrdersByUser(1);
+----+
| order_no | order_date | order_amount |
+----+
  101 | 2025-06-22 | 20498.00 |
+----+
1 row in set (0.01 sec)
Query OK, 0 rows affected (0.01 sec)
```

2. USE PARAMETER AND CONDITIONAL LOGIC

```
mysql> DELIMITER //
mysql> CREATE PROCEDURE CheckOrderValue(IN oid INT)
 -> BEGIN
     DECLARE order_val DECIMAL(10,2);
 ->
 ->
     SELECT order_amount INTO order_val FROM Orders WHERE order_no = oid;
 ->
 ->
 -> IF order val > 10000 THEN
        SELECT 'High Value Order' AS status;
 ->
 -> ELSE
        SELECT 'Regular Order' AS status;
 -> END IF;
 -> END //
Query OK, 0 rows affected (0.01 sec)
mysql> DELIMITER;
mysql> CALL CheckOrderValue(101);
+----+
status
+----+
| High Value Order |
+----+
1 row in set (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
mysql> DELIMITER //
mysql> CREATE FUNCTION PaymentStatus(amount DECIMAL(10,2))
 -> RETURNS VARCHAR(20)
 -> DETERMINISTIC
 -> BEGIN
 ->
     DECLARE status VARCHAR(20);
 ->
  -> IF amount >= 10000 THEN
       SET status = 'Premium';
 ->
 -> ELSEIF amount >= 5000 THEN
  ->
      SET status = 'Standard';
 -> ELSE
  ->
       SET status = 'Basic';
 -> END IF;
 ->
 -> RETURN status;
 -> END //
Query OK, 0 rows affected (0.10 sec)
mysql> DELIMITER;
mysql> SELECT PaymentStatus(12000);
+----+
| PaymentStatus(12000) |
+----+
| Premium
```

```
1 row in set (0.00 sec)
mysql> DELIMITER //
mysql> CREATE PROCEDURE GetTotalSpent(IN uid INT)
 -> BEGIN
 -> SELECT u.u_name, SUM(o.order_amount) AS total_spent
 -> FROM User u
 -> JOIN Orders o ON u.user_id = o.user_id
 -> WHERE u.user_id = uid
 -> GROUP BY u.u_name;
 -> END //
Query OK, 0 rows affected (0.01 sec)
mysql> DELIMITER;
mysql> CALL GetTotalSpent(1);
+----+
| u_name | total_spent |
+----+
| Aaliya | 20498.00 |
+----+
1 row in set (0.00 sec)
```

Query OK, 0 rows affected (0.01 sec)