# Group C - 1

### PROCEDURE –

```
mysql>
mysql> -- Create a table
mysql> CREATE TABLE users (
       id INT PRIMARY KEY AUTO_INCREMENT,
        name VARCHAR(50)
    ->
        email VARCHAR(50)
   -> );
Query OK, 0 rows affected (0.01 sec)
mvsal>
mysql> -- Insert some data into the table
mysql> INSERT INTO users (name, email) VALUES ('Alice', 'alice@example.com');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO users (name, email) VALUES ('Bob', 'bob@example.com');
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO users (name, email) VALUES ('Charlie', 'charlie@example.com');
Query OK, 1 row affected (0.00 sec)
mysql> -- Create a stored procedure
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE get_users()
    -> BEGIN
         SELECT * FROM users;
   -> END//
Query OK, 0 rows affected (0.00 sec)
mysql>
mysql> DELIMITER ;
mysql>
mysql> -- Call the stored procedure
mysql> CALL get_users();
| id | name
                | email
       Alice
                | alice@example.com
       Bob
                bob@example.com
| 3 | Charlie | charlie@example.com
3 rows in set (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
```

### FUNCTION –

8 rows in set (0.00 sec)

```
mysql> -- Create a table
mysql> -- Create a table
mysql> CREATE TABLE students (
--> id INT PRIMARY KEY AUTO_INCREMENT,
--> name VARCHAR(50),
               grade INT
ERROR 1050 (42S01): Table 'students' already exists
mysql> mysql> — Insert some data into the table mysql> MSERT INTO students (name, grade) VALUES ('Alice', 90); Query OK, 1 row affected (0.00 sec)
<code>mysql></code> INSERT INTO students (name, grade) VALUES ('Bob', 85); Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO students (name, grade) VALUES ('Charlie', 75);
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO students (name, grade) VALUES ('Dave', 95); Query OK, 1 row affected (0.00 sec)
mysql> -- Create a user-defined function mysql> DELIMITER //
mysql> CREATE FUNCTION is_passing(grade INT)
     sqlx CREATE FUNCTION is_pa:

-> RETURNS BOOLEAN

-> BEGIN

-> IF grade >= 60 THEN

-> RETURN TRUE;

-> ELSE

-> RETURN FALSE;
             RETURN FALSE;
END IF;
-> END IF;
-> END//
ERROR 1418 (MY000): This function has none of DETERMINISTIC, NO SQL, or READS SQL DATA in its declaration and binary logging is enabled (you *might* want to use the less safe log_bin_trust_function_creators variable)
mysql> DELIMITER;
mysql> select * from students;
   id | name
                         | grade |
    1 | Alice
2 | Bob
                                 90
    3 | Charlie
4 | Dave
5 | Alice
6 | Bob
    6 | Bob
7 | Charlie
8 | Dave
```

# **GROUP C-2**

## TRIGGERS –

1 row in set (0.00 sec)

```
mysql> delimiter $
mysql> create trigger trig1 after insert on Student_details for each row begin insert into backup_details set sid=NEW.s_id,sName=NEW.s_name;
-> END $
Query OK, 0 rows affected (0.01 sec)
mysql> select * from Student_details;
    -> END$
Empty set (0.01 sec)
mysql> delimiter ;
mysql> desc student_ details;
ERROR 1146 (42S02): Table 'assignmentc2.student_' doesn't exist
mysql> desc Student_details;
| Field
                              | Null | Key | Default | Extra |
             | Type
s_id
               int
                                            I NULL
                               YES
               varchar(20)
                                             NULL
| s_name
                               YES
| s_address
               | varchar(20)
                               YES
                                             NULL
| depart_name | varchar(20)
                               YES
                                             NULL
| s_mobile
               | varchar(10)
                             YES
                                            NULL
5 rows in set (0.00 sec)
mysql> insert into Student_details values("1","Prathamesh","Pune","IT","859674525");
Query OK, 1 row affected (0.01 sec)
mysql> select * from backup_details;
| sid | sName
                     | sAddress | departName | sMobile |
                                               NULL
     1 | Prathamesh | NULL
                                 I NULL
```

### GROUP C - 3

#### CURSOR –

1 row in set (0.00 sec)

```
Database changed
mysql> -- Create a database
mysql> CREATE DATABASE my_database;
ERROR 1007 (HY000): Can't create database 'my database': database exists
mysql>
mysql> -- Use the database
mysql> USE my_database;
Database changed
mysql>
mysql> -
        - Create a table
mysql> CREATE TABLE products (
-> id INT PRIMARY KEY AUTO_INCREMENT,
        name VARCHAR(50)
        price DECIMAL(10,2)
    -> );
Query OK, 0 rows affected (0.01 sec)
mvsal>
mysql>
       -- Insert some data into the table
mysql> INSERT INTO products (name, price) VALUES ('Product A', 10.50);
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO products (name, price) VALUES ('Product B', 15.00);
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO products (name, price) VALUES ('Product C', 20.00);
Query OK, 1 row affected (0.00 sec)
mysql> INSERT INTO products (name, price) VALUES ('Product D', 12.75);
Query OK, 1 row affected (0.00 sec)
mysql>
       -- Create a stored procedure with a cursor
mysql>
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE show_products()
    -> BEGIN
        DECLARE done BOOLEAN DEFAULT FALSE;
        DECLARE product_id INT;
        DECLARE product_name VARCHAR(50);
         DECLARE product_price DECIMAL(10,2);
        DECLARE products_cursor CURSOR FOR SELECT id, name, price FROM products;
           - Declare handlers for exceptions
        DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;
    ->
        OPEN products_cursor;
        product_loop: LOOP
    ->
          FETCH products_cursor INTO product_id, product_name, product_price;
    ->
          IF done THEN
mysql> CREATE PROCEDURE show_products()
     -> BEGIN
    ->
          DECLARE done BOOLEAN DEFAULT FALSE;
    ->
          DECLARE product_id INT
    ->
          DECLARE product_name VARCHAR(50);
    ->
          DECLARE product_price DECIMAL(10,2)
    ->
->
->
->
->
->
         DECLARE products_cursor CURSOR FOR SELECT id, name, price FROM products;
         -- Declare handlers for exceptions
DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;
          OPEN products_cursor;
          product_loop: LOOP
            FETCH products_cursor INTO product_id, product_name, product_price;
            IF done THEN
              LEAVE product_loop;
            SELECT CONCAT(product_id, ': ', product_name, ' - $', product_price) AS product_info;
    ->
          END LOOP;
    ->
          CLOSE products_cursor;
    -> END//
ERROR 1304 (42000): PROCEDURE show_products already exists
mysql>
mysql> DELIMITER ;
mysql>
mysql> -- Call the stored procedure
mysql> CALL show_products();
| product_info
| 1: Product A - $10.50 |
1 row in set (0.00 sec)
| product_info
| 2: Product B - $15.00 |
1 row in set (0.00 sec)
| product_info
| 3: Product C - $20.00 |
```

```
SELECT CONCAT(product_id, ': ', product_name, ' - $', product_price) AS product_info;
    ->
       END LOOP;
CLOSE products_cursor;
    ->
    -> END//
ERROR 1304 (42000): PROCEDURE show_products already exists
mysql> DELIMITER ;
mysql>
mysql> -- Call the stored procedure
mysql> CALL show_products();
| product_info
| 1: Product A - $10.50 |
1 row in set (0.00 sec)
| product_info
| 2: Product B - $15.00 |
1 row in set (0.00 sec)
| product_info
| 3: Product C - $20.00 |
1 row in set (0.00 sec)
| product_info
| 4: Product D - $12.75 |
1 row in set (0.01 sec)
```

Query OK, 0 rows affected (0.01 sec)