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<u>Lab</u> – <u>15</u>

```
create database lab15;
use lab15;
-- Create EMPLOYEES table
CREATE TABLE EMPLOYEES (
  employee_id INT PRIMARY KEY,
  first_name VARCHAR(50),
  last_name VARCHAR(50),
  salary DECIMAL(10, 2)
);
-- Insert sample data into EMPLOYEES table
INSERT INTO EMPLOYEES (employee_id, first_name, last_name, salary)
VALUES
(1, 'John', 'Doe', 2000),
(2, 'Jane', 'Smith', 3000),
(3, 'Robert', 'Johnson', 4000),
(4, 'Emily', 'Davis', 1500);
```

```
mysql> select * from EMPLOYEES;
  employee_id | first_name
                             last_name
                                           salary
                John
                                           2000.00
            1
                              Doe
                              Smith
            2
                 Jane
                                           3000.00
                Robert
                              Johnson
            3
                                           4000.00
                Emily
                              Davis
                                           1500.00
4 rows in set (0.00 sec)
```

-- Update salaries and count the number of records updated

DELIMITER \$\$

CREATE PROCEDURE UpdateSalaries()

BEGIN

DECLARE rows_updated INT;

-- Update salaries

UPDATE EMPLOYEES

SET salary = salary * 1.10;

-- Get the number of affected rows

SET rows_updated = ROW_COUNT();

-- Display the result

IF rows_updated = 0 THEN

SELECT 'No Change' AS Message;

ELSE

```
SELECT CONCAT(rows_updated, ' record(s) updated') AS Message;
END IF;
END$$
```

-- Call the procedure

DELIMITER;

CALL UpdateSalaries();

```
mysql> SELECT * FROM EMPLOYEES;
 employee_id | first_name | last_name |
                                           salary
                John
                              Doe
                                           2200.00
                              Smith
            2
                Jane
                                           3300.00
                              Johnson
            3
                Robert
                                           4400.00
                Emily
                              Davis
            4
                                           1650.00
4 rows in set (0.00 sec)
```

DELIMITER \$\$

CREATE PROCEDURE FetchEmployeeDetails()

```
BEGIN
  DECLARE done INT DEFAULT 0;
  DECLARE emp_id INT;
  DECLARE emp_name VARCHAR(100);
  DECLARE emp_salary DECIMAL(10, 2);
  -- Cursor declaration
  DECLARE emp_cursor CURSOR FOR
    SELECT employee_id, CONCAT(first_name, ' ', last_name), salary FROM
EMPLOYEES;
  -- Handler for end of data
  DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
  -- Open the cursor
  OPEN emp_cursor;
  FETCH emp_cursor INTO emp_id, emp_name, emp_salary;
  -- Loop through the cursor
  REPEAT
    IF NOT done THEN
      SELECT emp_id AS Employee_ID, emp_name AS Name, emp_salary AS
Salary;
    END IF;
    FETCH emp_cursor INTO emp_id, emp_name, emp_salary;
  UNTIL done END REPEAT;
```

	Close the cursor
	CLOSE emp_cursor;
El	ND\$\$
D	ELIMITER;
	Call the procedure
	ALL FetchEmployeeDetails();
O,	ALL I etoliEmployeeDetails(),

```
Employee ID | Name
                          Salary
            1 | John Doe | 2200.00
1 row in set (0.00 sec)
 Employee ID | Name
                            Salary
            2 | Jane Smith | 3300.00
1 row in set (0.01 sec)
 Employee_ID | Name
                                Salary
            3 | Robert Johnson | 4400.00
1 row in set (0.01 sec)
                       Salary
  Employee_ID | Name
            4 | Emily Davis | 1650.00
1 row in set (0.02 sec)
Query OK, 0 rows affected (0.02 sec)
-- Create TEMP_EMP table
CREATE TABLE TEMP_EMP (
 employee_id INT PRIMARY KEY,
  last_name VARCHAR(50),
 salary DECIMAL(10, 2)
);
```

```
DELIMITER $$
CREATE PROCEDURE InsertHighSalaryEmployees()
BEGIN
  DECLARE done INT DEFAULT 0;
  DECLARE emp_id INT;
  DECLARE emp_last_name VARCHAR(50);
  DECLARE emp_salary DECIMAL(10, 2);
  -- Cursor declaration
  DECLARE emp_cursor CURSOR FOR
    SELECT employee_id, last_name, salary FROM EMPLOYEES WHERE salary >
2500:
  -- Handler for end of data
  DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
  -- Open the cursor
  OPEN emp_cursor;
  FETCH emp_cursor INTO emp_id, emp_last_name, emp_salary;
  -- Loop through the cursor
  REPEAT
    IF NOT done THEN
      INSERT INTO TEMP_EMP (employee_id, last_name, salary)
      VALUES (emp_id, emp_last_name, emp_salary);
```

```
END IF;
FETCH emp_cursor INTO emp_id, emp_last_name, emp_salary;
UNTIL done END REPEAT;

-- Close the cursor
CLOSE emp_cursor;

-- Display inserted data
SELECT * FROM TEMP_EMP;
END$$

DELIMITER;

-- Call the procedure
CALL InsertHighSalaryEmployees();
```

```
+-----+
| employee_id | last_name | salary |
+-----+
| 2 | Smith | 3300.00 |
| 3 | Johnson | 4400.00 |
+----+
2 rows in set (0.01 sec)

Query OK, 0 rows affected (0.02 sec)
```