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9. Problem Statement 9 (Cursors)
Consider a table Employee with schema as Employee (Emp_id, Emp_Name, Salary).
1. Write an explicit cursor to display records of all employees with salary greater
than 50,000.
Write a PL/SQL block of code using Implicit Cursor that will display total
number of tuples in Employee
3. Write a PL/SQL block of code using Parameterized Cursor that will display salary
of employee id entered by
the user.
mysql> create database sst;
mysql> use sst;
Database changed
mysql> CREATE TABLE Employee (
         Emp_id INT PRIMARY KEY,
         Emp_Name VARCHAR(100),
         Salary DECIMAL(10, 2)
Query OK, 0 rows affected (0.05 sec)
mysql> INSERT INTO Employee (Emp_id, Emp_Name, Salary) VALUES (1, 'Rajesh Kumar',
60000.00);
Query OK, 1 row affected (0.02 sec)
mysql> INSERT INTO Employee (Emp_id, Emp_Name, Salary) VALUES (2, 'Priya Sharma',
45000.00);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO Employee (Emp_id, Emp_Name, Salary) VALUES (3, 'Amit Verma',
70000.00);
Query OK, 1 row affected (0.01 sec)
mysgl> INSERT INTO Employee (Emp id, Emp Name, Salary) VALUES (4, 'Suman Patel',
55000.00);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO Employee (Emp_id, Emp_Name, Salary) VALUES (5, 'Neha Gupta',
80000.00);
Query OK, 1 row affected (0.01 sec)
mysql> INSERT INTO Employee (Emp_id, Emp_Name, Salary) VALUES (6, 'Vikram Singh',
40000.00);
Query OK, 1 row affected (0.01 sec)
mysql>
mysql> COMMIT;
mysql> DELIMITER $$
mysql>
mysgl> CREATE PROCEDURE GetEmployeesWithHighSalary()
         DECLARE done INT DEFAULT 0;
         DECLARE emp_id INT;
         DECLARE emp_name VARCHAR(100);
         DECLARE emp_salary DECIMAL(10, 2);
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DECLARE emp_cursor CURSOR FOR
         SELECT Emp_id, Emp_Name, Salary
         FROM Employee
        WHERE Salary > 50000;
      DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
      OPEN emp_cursor;
      read_loop: LOOP
         FETCH emp_cursor INTO emp_id, emp_name, emp_salary;
         IF done THEN
           LEAVE read_loop;
         END IF;
         SELECT emp_id AS "Employee ID", emp_name AS "Employee Name",
emp_salary AS "Salary";
      END LOOP;
      CLOSE emp_cursor;
   END$$
Query OK, 0 rows affected (0.02 sec)
mysql>
mysql> DELIMITER ;
mysql> CALL GetEmployeesWithHighSalary();
+----+
| Employee ID | Employee Name | Salary |
+----+
| NULL | NULL | 60000.00 |
+----+
1 row in set (0.01 sec)
+----+
| Employee ID | Employee Name | Salary |
+----+
| NULL | NULL | 70000.00 |
+----+
1 row in set (0.01 sec)
+----+
| Employee ID | Employee Name | Salary |
+----+
| NULL | NULL | 55000.00 |
+----+
1 row in set (0.02 sec)
+----+
| Employee ID | Employee Name | Salary |
+----+
| NULL | NULL | 80000.00 |
+----+
1 row in set (0.02 sec)
mysql> DELIMITER $$
mysql>
mysql> CREATE PROCEDURE GetTotalEmployees()
   BEGIN
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DECLARE total_employees INT;
        SELECT COUNT(*) INTO total_employees
        FROM Employee;
        SELECT total_employees AS "Total Employees";
    END$$
Query OK, 0 rows affected (0.01 sec)
mvsal>
mysql> DELIMITER ;
mysql> CALL GetTotalEmployees();
+----+
| Total Employees |
+----+
    6 |
1 row in set (0.01 sec)
Query OK, 0 rows affected (0.02 sec)
mysql> DELIMITER $$
mysql>
mysql> CREATE PROCEDURE GetEmployeeSalaryById(IN emp_id_input INT)
   -> BEGIN
   DECLARE emp_salary DECIMAL(10, 2);
        DECLARE emp_cursor CURSOR FOR
            SELECT Salary
            FROM Employee
            WHERE Emp_id = emp_id_input;
        DECLARE CONTINUE HANDLER FOR NOT FOUND SET emp_salary = NULL;
        OPEN emp_cursor;
        FETCH emp_cursor INTO emp_salary;
        IF emp_salary IS NULL THEN
            SELECT CONCAT('No employee found with ID ', emp_id_input) AS "Error";
            SELECT CONCAT('Salary of Employee ID ', emp_id_input, ' is: ',
emp_salary) AS "Employee Salary";
        END IF;
        CLOSE emp_cursor;
    END$$
| Employee Salary
|-----|
| Salary of Employee ID 1 is: 60000.00
l Error
| No employee found with ID 999
```