## 10. Cursor – Implicit and Explicit

Create a table employee and insert 30 records and implement the above cursor concepts with example.

```
mysql> CREATE TABLE employee (
-> id INT PRIMARY KEY,
-> name VARCHAR(50),
-> department VARCHAR(50),
-> salary INT
->);

Query OK, 0 rows affected (0.05 sec)

mysql>
mysql> INSERI INTO employee (id, name, department, salary)

-> VALUES (1, 'John Doe', 'Sales', 30000),
-> (2, 'Jane Smith', 'Marketing', 40000),
-> (3, 'Bob Johnson', 'Sales', 35000),
-> (4, 'Mary Lee', 'IT', 50000),
-> (5, 'Tom Jones', 'Marketing', 45000),
-> (6, 'Samantha Lee', 'Sales', 40000),
-> (6, 'Samantha Lee', 'Sales', 40000),
-> (8, 'Sarah Miller', 'Marketing', 35000),
-> (10, 'Emily Davis', 'IT', 55000),
-> (11, 'Alex Johnson', 'Marketing', 45000),
-> (12, 'Jacob Smith', 'Sales', 40000),
-> (13, 'Maria Rodriguez', 'IT', 55000),
-> (14, 'Andrew Lee', 'Marketing', 35000),
-> (15, 'Jessica Brown', 'Sales', 30000),
-> (16, 'Mark Davis', 'IT', 55000),
-> (17, 'Olivia Johnson', 'Marketing', 45000),
-> (18, 'Ethan Smith', 'Sales', 40000),
-> (19, 'Sophia Rodriguez', 'IT', 60000),
-> (10, 'Mark Davis', 'IT', 50000),
-> (22, 'William Davis', 'IT', 50000),
-> (24, 'Liam Smith', 'Sales', 40000),
-> (27, 'Isabella Brown', 'Sales', 30000),
-> (28, 'James Rodriguez', 'IT', 50000),
-> (24, 'Liam Smith', 'Sales', 40000),
-> (25, 'Emma Rodriguez', 'IT', 50000),
-> (26, 'Mosh Lee', 'Marketing', 45000),
-> (27, 'Mia Brown', 'Sales', 30000),
-> (28, 'James Davis', 'IT', 55000),
-> (29, 'Abigail Johnson', 'Marketing', 45000),
-> (30, 'Renjamin Smith', 'Sales', 40000);
```

```
mysql> DELIMITER $$
mysql> CREATE PROCEDURE print_employee_salaries()
   -> BEGIN
          DECLARE done INT DEFAULT FALSE;
          DECLARE emp_name VARCHAR(50);
          DECLARE emp_salary INT;
DECLARE cur CURSOR FOR SELECT name, salary FROM employee;
          DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;
          OPEN cur;
          read_loop: LOOP
              FETCH cur INTO emp_name, emp_salary;
              IF done THEN
                  LEAVE read_loop;
              END IF;
             SELECT CONCAT(emp_name, ' earns ', emp_salary, ' per year.') AS message;
          END LOOP;
          CLOSE cur;
   -> END$$
Query OK, 0 rows affected (0.14 sec)
mysql> DELIMITER ;
mysql> CALL print_employee_salaries();
message
| John Doe earns 30000 per year. |
1 row in set (0.01 sec)
| Jane Smith earns 40000 per year. |
1 row in set (0.02 sec)
| Bob Johnson earns 35000 per year. |
1 row in set (0.04 sec)
message
 Mary Lee earns 50000 per year.
```