Create cursor for Employee table & extract the values from the table. Declare the variables ,Open the cursor & extract the values from the cursor. Close the cursor. Employee(E_id, E_name, Age, Salary)

-- **Step 1**: Create the Employee table

CREATE TABLE Employee (

   E_id INT,

   E_name VARCHAR(50),

   Age INT,

   Salary INT

);

-- **Step 2**: Insert some sample records

INSERT INTO Employee VALUES (1, 'Alice', 30, 50000);

INSERT INTO Employee VALUES (2, 'Bob', 28, 45000);

INSERT INTO Employee VALUES (3, 'Charlie', 32, 55000);

-- **Step 3**: Now, create a procedure to use a cursor

DELIMITER //

CREATE PROCEDURE fetch_employee_details()

BEGIN

   -- Declare variables

   DECLARE v_id INT;

   DECLARE v_name VARCHAR(50);

   DECLARE v_age INT;

   DECLARE v_salary INT;

   DECLARE done INT DEFAULT 0; -- flag to indicate end of data

   -- Declare the cursor

   DECLARE emp_cursor CURSOR FOR

     SELECT E_id, E_name, Age, Salary FROM Employee;

```sql
    -- Declare NOT FOUND handler
    DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;


    -- Open the cursor
    OPEN emp_cursor;


    -- Start fetching loop
    emp_loop: LOOP
        FETCH emp_cursor INTO v_id, v_name, v_age, v_salary;


        IF done THEN
            LEAVE emp_loop;
        END IF;


        -- Print the extracted values
        SELECT
            CONCAT('ID: ', v_id, ', Name: ', v_name, ', Age: ', v_age, ', Salary: ', v_salary)
            AS Employee_Info;
    END LOOP emp_loop;


    -- Close the cursor
    CLOSE emp_cursor;
END //

DELIMITER ;
```

```
mysql> DELIMITER //
mysql> create procedure fetch_employee_details()
    -> begin
    -> declare v_id int;
    -> declare v_name varchar(50);
    -> declare v_age int;
    -> declare v_salary int;
    -> declare done int default 0;
    -> declare emp_cursor cursor for
    -> select E_id, E_name,Age,Salary from Employee;
    -> declare continue handler for not found set done =1;
    -> open emp_cursor;
    -> emp_loop:LOOP
    -> fetch emp_cursor into v_id, v_name, v_age, v_salary;
    -> if done then
    -> leave emp_loop;
    -> end if;
    -> select concat('ID:',v_id,',Name:',v_name,',Age:',v_age,',Salary:'
,v_salary) as Employee_info;
    -> end loop emp_loop;
    -> close emp_cursor;
    -> end //
Query OK, 0 rows affected (0.03 sec)
```

-- Step 4: Call the procedure

CALL fetch_employee_details();

```
mysql> delimiter ;
mysql> call fetch_employee_details();
+------------------------------------+
| Employee_info                      |
+------------------------------------+
| ID:1,Name:Anand,Age:25,Salary:15000 |
+------------------------------------+
1 row in set (0.00 sec)

+------------------------------------+
| Employee_info                      |
+------------------------------------+
| ID:2,Name:Amar,Age:26,Salary:20000 |
+------------------------------------+
1 row in set (0.01 sec)

+------------------------------------+
| Employee_info                      |
+------------------------------------+
| ID:3,Name:Keith,Age:22,Salary:25000 |
+------------------------------------+
1 row in set (0.01 sec)

+------------------------------------+
| Employee_info                      |
+------------------------------------+
| ID:4,Name:Anil,Age:29,Salary:30000 |
+------------------------------------+
1 row in set (0.01 sec)
```