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| **Academic Year:** 2024-25 | **Year:** Second Year | **Semester:** II |
| **PRN No.:** | **Name:** | |
| **Subject:** Database Management System | | |
| **Assignment No.**: 9 |  | |
| **Date:** |  | |

**Lab Assignment: 09**

**Title:** Cursor:

**Cursor for Row-by-Row Processing**:

Use a cursor to process each row of a table and update another table based on the results.

**Write and Execute Cursors to perform following kind of operations:**

**Theory:**

What is Cursor?

Explain Cursor Syntax

Cursor Life Cycle

**Execution:**

1. **Create a stored procedure that uses a cursor to print all employee names from the employees table.**
2. **Design a cursor-based stored procedure to find and update products with quantity < 10 to 'Out of Stock' in the products table.**
3. **Write a cursor-based procedure that sends alerts for overdue invoices by updating the invoices table status.**
4. **Create a procedure that uses a cursor to list all products in the products table along with their prices.**
5. **Write a procedure that uses a cursor to read from the employees table and increase the salary by 10% for employees with experience > 5 years.**
6. **Develop a cursor-based procedure to check each student’s marks and insert 'Pass' or 'Fail' into a separate results table.**
7. **Write a procedure using a cursor that monitors the attendance table and marks students as 'Irregular' if attendance < 75%.**

**Conclusion:**

**FAQs:**

1. What are the main steps to use a cursor in MySQL?
2. How do you open and close a cursor in MySQL?
3. Explain the use of FETCH with a MySQL cursor.
4. How do you handle the NOT FOUND condition while using cursors in MySQL? Explain with an example.
5. What is the difference between an explicit cursor and an implicit cursor in MySQL?