

## Exp-18

### HIGH LEVEL PROGRAMMING EXTENSIONS CURSORS

```
MySQL> CREATE TABLE students (
    -->     id INT AUTO_INCREMENT PRIMARY KEY,
    -->     name VARCHAR(50)
    --> );
Query OK, 0 rows affected (0.05 sec)

MySQL>
MySQL> INSERT INTO students (name) VALUES ('Alice'), ('Bob'), ('Charlie');
Query OK, 3 rows affected (0.02 sec)
Records: 3  Duplicates: 0  Warnings: 0

MySQL>
MySQL> DELIMITER $$

MySQL> CREATE PROCEDURE CursorExample()
--> BEGIN
-->     DECLARE done INT DEFAULT FALSE;
-->     DECLARE s_name VARCHAR(50);
-->     DECLARE cur CURSOR FOR SELECT name FROM students;
-->     DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;
-->
-->     OPEN cur;
-->
-->     read_loop: LOOP
-->         FETCH cur INTO s_name;
-->         IF done THEN
-->             LEAVE read_loop;
-->         END IF;
-->         SELECT s_name AS StudentName;
-->     END LOOP;
-->
-->     CLOSE cur;
--> END$$
Query OK, 0 rows affected (0.01 sec)

MySQL>
MySQL> DELIMITER ;
MySQL>
MySQL> CALL CursorExample();
+-----+
```

```
-->
-->     read_loop: LOOP
-->         FETCH cur INTO s_name;
-->         IF done THEN
-->             LEAVE read_loop;
-->         END IF;
-->         SELECT s_name AS StudentName;
-->     END LOOP;
-->
-->     CLOSE cur;
--> END$$
Query OK, 0 rows affected (0.01 sec)

MySQL>
MySQL> DELIMITER ;
MySQL>
MySQL> CALL CursorExample();
+-----+
| StudentName |
+-----+
| Alice       |
+-----+
1 row in set (0.02 sec)

+-----+
| StudentName |
+-----+
| Bob        |
+-----+
1 row in set (0.02 sec)

+-----+
| StudentName |
+-----+
| Charlie    |
+-----+
1 row in set (0.03 sec)

Query OK, 0 rows affected (0.03 sec)

MySQL> |
```