

## Exp-18

### HIGH LEVEL PROGRAMMING EXTENSIONS CURSORS

```
MySQL 8.0 Command Line Cli  x  +  -
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 $$
mysql>
mysql> CREATE PROCEDURE CursorExample()
-> BEGIN
->   DECLARE done INT DEFAULT FALSE;
->   DECLARE s_name VARCHAR(50);
->   DECLARE cur CURSOR FOR SELECT name FROM students;
->   DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;
->
->   OPEN cur;
->
->   read_loop: LOOP
->     FETCH cur INTO s_name;
->     IF done THEN
->       LEAVE read_loop;
->     END IF;
->     SELECT s_name AS StudentName;
->   END LOOP;
->   CLOSE cur;
-> END$$
Query OK, 0 rows affected (0.01 sec)

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

```
MySQL 8.0 Command Line Cli  x  +  -
->
->   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> |
```