

A.Y.
2023-24

Class: SE-ITA/B,

Semester: III Subject:

Structured Query Lab

Experiment – 10: Implement Cursors on the chosen system.

1. **Aim:** To Implement Procedures , Cursors and Functions on the chosen system.
2. **Objective:**
 - After performing the experiment, the students will be able to formulate and use procedures to manipulate database and retrieve data
 - Use cursors/functions/procedure on the database
3. **Outcome:** L303.4: To Write queries in SQL to retrieve any type of information from a database.
4. **Prerequisite:** Understanding of Procedures, functions and Cursors with terminologies along with sample syntax.
5. **Requirements:** PC, Oracle 11g/SQL Server 2008 R2, Microsoft Word, Internet, MySQL

6. Pre-Experiment Exercise:

Brief Theory :(To be handwritten)

1. Explain life cycle of Cursor?
2. What are cursors explain with syntax?
3. What are types of cursor?
4. **B. Result/Observation/Program code:** Attach all queries executed code with proper output
- 5.

6. PROCEDURE:

CURSOR:

```
delimiter //  
create procedure  
cursor10() begin
```

```
declare i int;  
declare n varchar(50);  
declare curt cursor for select marks, fname from  
student.data; open curt;  
fetch curt into i,n;
```

```
select i,n;
```

```
close curt;
```

```
end; //
```

```
delimiter ;
```

```
call cursor10();
```

8. Post Experimental

Exercise-(Handwritten) A Questions:

1. What are the steps in using an explicit cursor?
2. What are the differences between procedures, function and cursors in SQL?

B. Conclusion:

1. Write what was performed in the experiment
2. Mention few applications of what was studied.
3. Write the significance of the studied topic

C. References:

- [1] Elmasri and Navathe, “Fundamentals of Database Systems”, 5th Edition, PEARSON Education.
- [2] Korth, Silberchatz, Sudarshan, “Database System Concepts”, 6th Edition, McGraw – Hill
- [3] https://www.w3schools.com/sql/sql_default.asp