PL/SQL CURSOR

What is Cursor in SQL?

Cursor is a Temporary Memory or Temporary Work Station. It is Allocated by Database Server at the Time of Performing DML operations on Table by User. Cursors are used to store Database Tables. There are 2 types of Cursors: Implicit Cursors, and Explicit Cursors. These are explained as following below.

1. Implicit Cursors:

Implicit Cursors are also known as Default Cursors of SQL SERVER. These Cursors are allocated by SQL SERVER when the user performs DML operations.

2. Explicit Cursors :

Explicit Cursors are Created by Users whenever the user requires them. Explicit Cursors are used for Fetching data from Table in Row-By-Row Manner.

How to create Explicit Cursor:

- Declare Cursor Object. Syntax : DECLARE cursor_name CURSOR FOR SELECT * FROM table_name DECLARE s1 CURSOR FOR SELECT * FROM studDetails
- Open Cursor Connection.
 Syntax : OPEN cursor_connection OPEN s1

3. Fetch Data from cursor.

There are total 6 methods to access data from cursor. They are as follows :

FIRST is used to fetch only the first row from cursor table.

LAST is used to fetch only last row from cursor table.
NEXT is used to fetch data in forward direction from cursor table.
PRIOR is used to fetch data in backward direction from cursor table.
ABSOLUTE n is used to fetch the exact nth row from cursor table.
RELATIVE n is used to fetch the data in incremental way as well as decremental way.

Syntax : FETCH NEXT/FIRST/LAST/PRIOR/ABSOLUTE n/RELATIVE n FROM cursor_name

FETCH FIRST FROM s1

FETCH LAST FROM s1

FETCH NEXT FROM s1

FETCH PRIOR FROM s1

FETCH ABSOLUTE 7 FROM s1

FETCH RELATIVE -2 FROM s1

4. Close cursor connection. Syntax : CLOSE cursor_name

CLOSE s1

5. **Deallocate cursor memory. Syntax :** DEALLOCATE cursor_name

DEALLOCATE s1