Roll No : - 05.

Sub : - DBMSL

Practical No 06

Title :- Named PL/SQL Block : PL/SQL Stored procedure and Stored function.

Objective :- To learn understand and execute process of software application development.

Software :- mySQL

Hardware :- intel i5 ubuntu OS.

Theory :-

(A) Stored procedure :- A stored procedure is a prepred SQL code that you can save, so the code can be reused over and over again.

- So if you on SQL query that you write over & over again save it as a stored procedure and then just say so execute it.
- We can pass parameters to a stored procedure so that the stored procedure can act based on parameter value(s) that is passed.

Syntax :-

```
CREATE PROCEDURE procedure_name
AS
    sql_statement
    GO;
```

* execute a stored procedure

```
EXEC procedure_name;
```

* Stored procedure with one parameter

Syntax: - CREATE PROCEDURE
SelectAllCustomers @city
n varchar(30)
AS
SELECT * From Customer's WHERE
City = @city
Go;

* Stored procedure with multiple parameter:

CREATE PROCEDURE
SELECT All Customer @city
nvarchar(30), @postalcode
nvarchar(10)
AS
SELECT * FROM Customer WHERE
city = @city AND postalcode = @postalcode
Go;

(B) Stored function:- A stored function is a set of SQL statement that perform some operation and return single value.
The CREATE function statement is used for creating a stored function and user-defined function.

Syntax: - CREATE Function function_name (Func_parameter)
RETURN datatype [character]
func = body.

* ~~para~~

* Parameters used :-

① function name :- It is name by which stored function is called. The name should not be same to the built in function

② func-parameter :- It is the argument whose value is used by the function inside its body.

③ Datatype :- It is datatype of value returns by function

④ characteristics :- The CREATE function statement is accepted only if that of least one of the characteristics & Deterministic. NO SQL or READS SQL Data is specified in its decoration.

* pure body :- Is the set of mysql statement that perform operation it's structure is as follow.

```
BEGIN:
        mysql statement
        RETURN statement;
END
```

The function body must contain Return statement.

Conclusion :- Hence we studied about the stored functions and stored procedures.