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Class : AIA-3 Subject: DBMS LAB

Roll No : 2213688 Batch : B

## **ASSIGNMENT NO: 06**

Aim: PL/SQL: Procedures and Functions.

- A. Write a function to square the number taken from user.
- B. Write a procedure to display the records from Manufacturing industry / Hospital/Company table

Software required: MySQL

## Theory:

The PL/SQL Function is very similar to PL/SQL Procedure. The main difference between procedure and a function is, a function must always return a value, and on the other hand a procedure may or may not return a value. Except this, all the other things of PL/SQL procedure are true for PL/SQL function too.

### Syntax to create a function:

```
CREATE [OR REPLACE] FUNCTION function_name [parameters]
[(parameter_name [IN | OUT | IN OUT] type [, ...])]
RETURN return_datatype
{IS | AS}
BEGIN
    &It; function_body >
END [function_name];
```

### Here:

- o Function\_name: specifies the name of the function.
- o [OR REPLACE] option allows modifying an existing function.
- o The optional parameter list contains name, mode and types of the parameters.
- o IN represents that value will be passed from outside and OUT represents that this

parameter will be used to return a value outside of the procedure.

The function must contain a return statement.

- o RETURN clause specifies that data type you are going to return from the function.
- o Function\_body contains the executable part.
- o The AS keyword is used instead of the IS keyword for creating a standalone function.

## PL/SQL Function Example

```
1. create or replace function adder(n1 in number, n2 in number)
2. return number
3. is
4. n3 number(8);
5. begin
6. n3 :=n1+n2;
7. return n3;
8. end;
9./
Now write another program to call the function.
1. DECLARE
```

- 2. n3 number(2);
- 3. BEGIN
- 4. n3 := adder(11,22);
- 5. dbms\_output.put\_line('Addition is: ' || n3);
- 6. END;
- 7./

## **Screenshots:**

# A]

```
9
      delimiter //
 10
11 • create function square(x int)
       returns int deterministic
 12
 13

⊕ begin

 14
       return x*x;
 15
      end;
 16
 17
 18
       11
 19
       select square(12);
 20 .
Export
  square(12)
 144
```

# B]

