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| Ex. No. 11 | PL/SQL Procedures | Date : |

**The PL/SQL stored procedure or simply a procedure is a PL/SQL block which performs one or more specific tasks. It is just like procedures in other programming languages.**

**The procedure contains a header and a body.**

**Header: The header contains the name of the procedure and the parameters or variables passed to the procedure.**

**Body: The body contains a declaration section, execution section and exception section similar to a general PL/SQL block.**

**How to pass parameters in procedure:**

**When you want to create a procedure or function, you have to define parameters .There is three ways to pass parameters in procedure:**

**IN parameters: The IN parameter can be referenced by the procedure or function. The value of the parameter cannot be overwritten by the procedure or the function.**

**OUT parameters: The OUT parameter cannot be referenced by the procedure or function, but the value of the parameter can be overwritten by the procedure or function.**

**INOUT parameters: The INOUT parameter can be referenced by the procedure or function and the value of the parameter can be overwritten by the procedure or function.**

**A procedure may or may not return any value.**

**PL/SQL Create Procedure**

**Syntax for creating procedure:**

**CREATE [OR REPLACE] PROCEDURE procedure\_name**

**[ (parameter [,parameter]) ]**

**IS**

**[declaration\_section]**

**BEGIN**

**executable\_section**

**[EXCEPTION**

**exception\_section]**

**END [procedure\_name];**

**Create procedure example**

**In this example, we are going to insert record in user table. So you need to create user table first.**

**Table creation:**

**create table user(id number(10) primary key,name varchar2(100));**

**Now write the procedure code to insert record in user table.**

**Procedure Code:**

**create or replace procedure "INSERTUSER"**

**(id IN NUMBER,**

**name IN VARCHAR2)**

**is**

**begin**

**insert into user values(id,name);**

**end;**

**/**

**Output:**

**Procedure created.**

**PL/SQL program to call procedure**

**Let's see the code to call above created procedure.**

**BEGIN**

**insertuser(101,'Rahul');**

**dbms\_output.put\_line('record inserted successfully');**

**END;**

**/**

**Now, see the "USER" table, you will see one record is inserted.**

|  |  |
| --- | --- |
| **ID** | **Name** |
| **101** | **Rahul** |

**PL/SQL Drop Procedure**

**Syntax for drop procedure**

**Questions**

1. **creates a simple procedure that displays the string 'Hello World!' on**

**the screen when executed**

1. **Create a procedure to find the minimum of two values. HINT - Procedure takes two**

**numbers using the IN mode and returns their minimum using the OUT parameters**

1. Create a procedure, to get cube of passed number.
2. **Write a procedure to reverse a input string and check it is palindrome or not.**
3. **Write a procedure to delete a specific row from the table already created.**