



Experiment 3.2

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Subject Name: DBMS

Subject Code: 21CSH-214

1. Aim: Introduction and implementation of programs of Packages.

2. Objective: implement procedure/function using packages.

3. DBMS script and output:

Syntax:

1. Package Specification:

```
Create package <package name> as
Procedure <procedure name> (list of arguments);
Function <func. Name> (list of arguments) return datatype;
End <package name>;
```

2. Syntax of Package Body:

```
Create packaged body <package name> as
Procedure <proc. Name> (list of arguments) as
Begin
    Executable code of procedure;
End <proc. Name>;
Function <func. Name> (list of arguments) return datatype as
Begin
    Executeable code of function;
End <func. Name>;
End <package name>;
```

Program Code:-

```
-- Package Specification
Create Package operation as
    procedure retrieve (Eno number, name out varchar, salary out number);
    Function raise_sal (Did number, amt number) return number;
End operation;

-- Package Body
Create package body operation as
    procedure retrieve (Eno number, name out varchar, salary out number) as
    begin
        select Ename, sal into name, salary from Employees where Eid=Eno;
        dbms_output.put_line('Name: ' || name || ' Salary: ' || salary);
    End retrieve;

    Function raise_sal (Did number, amt number) return number as
    n number;
    begin
        update Employees set sal=sal+amt where Did=Dno;
        n:= sql%rowcount;
        return n;
    End raise_sal;
End operation;
```

```
-- Main Code
DECLARE
    Empid number;
    deptno number;
    salary number;
    amt number;
    no_rows number;
    Empname varchar(30);
BEGIN
    Empid:=:Enter_id;
    operation.retrieve(Empid, Empname, salary);

    deptno:=:Enter_dept_no;
    amt:=:Enter_increment_amount;
    no_rows:= operation.raise_sal(deptno, amt);

    dbms_output.put_line('Rows updated: ' || no_rows);
END;
```



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OUTPUT:

BEFORE:

EID	ENAME	SAL	DNO
1	Rohan	1000	1
2	Sinu	100	2
3	Sameer	700	1
7	Mrinal	1300	3
6	Himu	1000	1
5	Ruhela	810	3
4	Harsh	1000	3

:ENTER_ID
:ENTER_DEPT_NO
:ENTER_INCREMENT_AMOUNT

AFTER:

```
Name: Rohan Salary: 1000  
Rows updated: 3  
  
Statement processed.
```

EID	ENAME	SAL	DNO
1	Rohan	2000	1
2	Sinu	100	2
3	Sameer	1700	1
7	Mrinal	1300	3
6	Himu	2000	1
5	Ruhela	810	3
4	Harsh	1000	3