Ex.No.: 12	WORKING WITH CURSOR, PROCEDURES AND
Date:	FUNCTIONS

#### AIM:

Create PL/SQL Blocks to perform the Item Transaction Operations using CURSOR, FUNCTION and PROCEDUERE.

#### ALGORITHM:

STEP-1: Start.

STEP-2: Create two tables Item Master and Item Trans.

itemmaster(itemid, itemname, stockonhand)

itemtrans(itemid ,itemname ,dateofpurchase ,quantity)

STEP-3: Create a PROCEDURE with id, name and quantity as parameters which make a call to the FUNCTION by passing id, name, dop, and quantity as parameters dop is set as sysdate.

STEP-4: Using FUNCTION fetch each record from the table Item Master using

CURSOR inside a Loop statement,

If Item Master's ItemId is equal to the entered ID value then exit the loop otherwise fetch the next record.

loop

fetch master into masterrec exit when master%notfound if masterrec.itemid=id then

exit;

end if;

end loop;

STEP-5: If Itemmaster's itemid = id then,

Add the Itemmaster's stockonhand with the given quantity and update the ItemMaster table and insert the Item information into the ItemTrans table.

STEP-6: Else, if the inputed item is not present in the ItemMaster table then insert the

### Program 1

# FACTORIAL OF A NUMBER USING FUNCTION

create or Replace Hundron cal-func (n number)

Refuest number is too number: = 13 BEGIN of hed or nel then retwen pac; Else roy i IN 2 -- n loop fac: = fac +1 > END LOOP ; Return Fac; END IF ; END cal - func; Delogue num number := 5 ; YESUIT NUMBER ; BEGIN result : = cal\_fac (num); DBMIS \_ DUTPUT . PUT - LINE ( YESUIE): END;

#### Program 2

Write a PL/SQL program using Procedures IN, INOUT, OUT parameters to retrieve the corresponding book information in library

ereque or replace procedure book\_info (p-book\_id IN

number;

p\_author out vauchast;

p\_awail toop IN out number;) Is

BEGIN select author, avai loop from library-books

where book ld = p-look\_id

Of p-avail\_loop := p-avail\_Cop-1;

Else DBMs\_output. Putlint ("No available copies");

END Of;

# TO WRITE A PL/SQL BLOCK TO DISPLAY THE EMPLOYEE ID AND EMPLOYEE NAME WHERE DEPARTMENT NUMBER IS 11 USING EXPLICIT CURSORS

- 1 declare
- 2 cursor cenl is select eid,sal from ssempp where dno=11;
- 3 ecode ssempp.eid%type;
- 4 esal empp.sal%type;
- 5 begin
- 6 open cenl;
- 7 loop
- 8 fetch cenl into ecode, esal;
- 9 exit when cenl%notfound;
- 10 dbms\_output\_line('Employee code and employee salary are' || ecode 'and'|| esal);

11 end loop; 12 close cenl;

13\* end;

SQL>/

Employee code and employee salary are 1 and 39000 Employee code and employee salary are 5 and 35000 Employee code and employee salary are 6 and 23000

PL/SQL procedure successfully completed.

## TO WRITE A PL/SQL BLOCK TO UPDATE THE SALARY BY 5000 WHERE THE JOB IS LECTURER, TO CHECK IF UPDATES ARE MADE USING IMPLICIT CURSORS AND TO DISPLAY THE UPDATED TABLE

SQL> declare

- 2 county number;
- 3 begin
- 4 update ssempp set sal=sal+10000 where job='lecturer';
- 5 county:= sql%rowcount;
- 6 if county > 0 then
- 7 dbms\_output.put\_line('The number of rows are '|| county);
- 8 end if;
- 9 if sql %found then
- 10 dbms\_output\_line('Employee record modification successful');
- 11 else if sql%notfound then
- 12 dbms\_output\_put\_line('Employee record is not found');
- 13 end if;
- 14 end if;
- 15 end;

16 / The number of rows are 3

Employee record modification successful

PL/SQL procedure successfully completed.

#### SQL> select \* from ssempp;

EI	D ENAME	JOB	SAL	DNO
1	nala	lecturer	44000	11
2	kala	seniorlecturer	20000	12
5	ajay	lecturer	40000	11
6	vijay	lecturer	28000	11
3	nila	professor	60000	12