

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

AIM:

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

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 inputted item is not present in the ItemMaster table then insert the

Program 1

FACTORIAL OF A NUMBER USING FUNCTION

```
CREATE OR REPAACE FUNCTION Factorial (n IN number) RETURN  
NUMBER IS  
result NUMBER := 1 ;  
BEGIN  
    IF n < 0 THEN  
        RETURN NULL ;  
    ELSE IF n = 0 OR n = 1 THEN  
        RETURN 1 ;  
    ELSE  
        FOR i IN 2 ... n LOOP  
            result := result * i ;  
        END LOOP  
    END IF ;  
    RETURN result ;  
EXCEPTION  
    WHEN OTHERS THEN  
        DBMS_OUTPUT - LINE ('AN Error OCCURED')  
        SQLERRM ;  
    RETURN NULL ;  
END Factorial ;  
SET SERVER OUTPUT ON ;  
  
DECLARE  
    num NUMBER := 5 ;  
    fact number ;  
END ;
```

Program 2;

Create Table books (book - id number(5)
primary key, title varchar(100), author
varchar(100), public - year number(4));

Insert into books values (1, '1982', 'Orwell',
1949, 4);

Insert into books values (2, 'Mockingbird', Lee,
1960, 2);

commit

Create or replace procedure getbook (book-id,

P - title OUT varchar?, P - author OUT) IS

BEG IN

Select title author into P - title, P -
author FROM books where - id =

END;

~~SET Server output ON;~~

~~Declare~~

~~V - title varchar(100); V - author
varchar(100);~~

BEGIN

getbook IN pinyin ID(1, V - title, V - author)
DBMS - OUTPUT.PUTLINE('Book: || V - title ||',
"Author" || V - author);

END;