Ex.No.: 12

Date:

WORKING WITH CURSOR, PROCEDURES AND 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 FUNCTION Factorial (n In number)
                         RETURN NUMBER 13
 result NUMBER = 1,
BEGIN
    IF no then
    RETURN NULL!
ELSEIF N = 0 OR N=1 THEN
  RETURN 1;
ELSE
  FOR I IN 2. , N LOOP
   RESULT: = regult *1;
  END LOOP!
  END IF,
 RETURN RESULT,
 EXCEPTION
     WHEN OTHERS THEN
DBM3 OUTPUT-PUT-LINE ('AN ERROR OCCURED'ILSALERM);
 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; HITLE VARCHAR (100), author VARCHAR (100); Publication- Year NUMBER (4), available-copies NUMBER (5) Books VALUES (1, 1984', 'Oswell', 1949, 4), INTO INSERT Books VALUES (2, Mocking birds, du, 1960,2), INTO INSERT INSERT INTO BOOKS VALUES (3, Garsby', Fitybook', 1925, 5). COMMIT; CREATE OR REPLACE PROCEDURE GIETBOOK IN JOBY Id (P-book-i'd) NUMBER, PHITLE OUT VARCHAR 2 , P-author OUT VARCHAR 2) IS SECECT title, author INTO P-title, P-author FROM BEGIIN Books WHERE-Id.

ENDI

SET SERVER DUTPUT ON,

V-title VARCHAR (100), U-author VARCHAR 2 (100), DECLARE

Get book In formy Id (1, V-title, V_author), BEGIN DBMS-DUTPUT. PUT-LINE ('BOOK: 1/1 V-title /1 'Author! 11 v_ author);

END;

Evaluation Procedure	Marks awarded
PL/SQL Procedure(5)	5
Program/Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	Q