LA.110 12	Ex.	No	:	12
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Date:

27/9/24

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

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FACTORIAL OF A NUMBER USING FUNCTION

```
CREATE OR REPLACE FUNCTION Factorial ( n IN number) RETURN NUMBER IS
 risult NUMBER := 1;
BENING, Potatil, ingertag ( & ) STATION SOURCE COME LANGUAGE
   OF NO THEN
                                        · SPIRILING
     RETURN NULL;
  ELSIF N=0 OR N=1 THEN
 ET (. RETURN !! ) TOO ... Yeshing que estato any tres deserves a resulta
  ELSE
    FOR I TN 2 ... N LOOP
RESULT: = result * i = ;
    END LOOP ;
    END IF ;
                          THE PURITURE SALES
 RETURN RESULT;
 EXCEPTION
    WHEN OTHERS THEN
 DBMS_OUTEUT. PUT_LINE ('AN ERROR OCCURED'IL SALERRM):
   RETURN NULL;
                                           6814 6 1
  END Factorial:
   SET SERVER OUTPUT ON;
   DECLARE
        num NUMBER : = 5;
        fact number:
```

```
Program 2:
  CREATE TABLE BOOKS C
      book_id Number (5) PRIMARY KEY,
    title VARCHAR 2 (100), author VARCHAR (100),
    Publications_year NUMBER(4), available_copies NUMBER(5)
    );
   INSERT 'INTO BOOKS VALUES (1, '1984', 'orwell', 1949, 4);
  INSERT INTO BOOKS VALUES (2, 'Mocking bird', 'hui, 1960,2);
   INSERT INTO BOOKS VALUES (3, 'Gratsby', 'Fitzbald', 1925, 5);
   COMMIT :
                                          THE POPULATION AND THE
CREATE OR REPLACE PROCEDURE Getbook In GOBYIN CP-book id IN
NUMBER, P-title OUT VARCHARZ, P author OUT VARCHAR 2) IS
BEUTIN
                                    hoots a rear in and
  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 2 (100);
```

getbook En foury Id (1, v-title, v-author);

DBMS OUTPUT. PUT_LINE ('Book: 11 v_title 11', Author: '11' v_author);

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Evaluation Procedure	Marks awarded
PL/SQL Procedure(5)	5
Program/Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	2