Ex.No.: 12 Date: 27/09/2024

WORKING WITH CURSOR, PROCEDURES AND FUNCTIONS

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 FOODSION , IN Number)
RETURN NUMBER IS YESULT NUMBER IS
result NOMBER!=1
BEGIN
        IF NCO Then
         RETURN NOLL;
  EISEIF NO OR NO! THEN
     RETURN!
   FLSE
       FOR i IN 2 ... hloop
         RESULT: = result == )
    END LOOP;
     ENDIE,
RETURN RESULT! --
 EXCEPTION
      WHEN OTHERS THEN
   DBMS_OUTPUT_PUT_LINE (6 AN ERROR OCCUPEDI)
SQLERRM)
    RETURN NULL
 END FOCKONUL
    SET SERVER DUTPUT ON:
     DECLARE
          hum NUMBESIS;
          Fact number;
```

END;

Program 2:

CREME TABLE BOOKS (LOOK_I) Number (S) PRIMARY MEY, the VARCHAR (100), OWLEY WARCHAR (100), Rublicotions -YEVY (NUMBER C4), anouable-copies Number(5));

I nost into Books values (1,6 1984), 68 well, 1949,4); Insert into Books Values (2, Macking Line) (100) 1960,21; Insert into Books Values (3,6 Gatshy), (Fitzbald) 19725,5);

CREATE OR REPLACE PROCEDUPEGETEON INJOHITA (P. book_id IN NUMBER, P-ELLE DUL VARCHAR2, Pautlor OST VARCHAR2) IT

SElect Title, outlor INFO P. Little, P-author From Books BEGIN INHEREID = END;

SET SERVER OUTPUT ON;

DECLARE

4-646 VARCHAR (100); V-author VARCHARCION)

BEGILIN

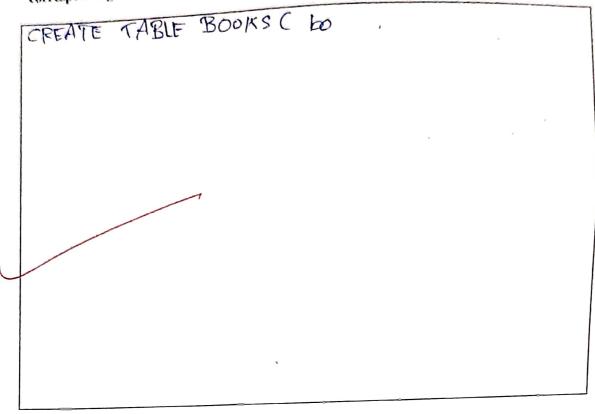
Got book In Joony Id (1, Ve little, vouthor) topms_ ONT PUT-LINE ("BOOK) I V. Little 11" Author: 1

114- withor);

END;

Program 2

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



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

- 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.put_line(' Employee code and employee salary are' || ecode 'and' || esal);



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Evaluation Procedure	Marks awarded
PL/SQL Procedure(5)	5
Program/Execution (5)	5
Viva(5)	4
Total (15)	14
Faculty Signature	2