**ASSIGNMENT 9**

**1.Using cursor display the details of all those employees from emp table whose sum of sal and comm. Is more than 25000**;

SET SERVEROUTPUT ON

DECLARE

Vempno emp.empno%TYPE;

Vename emp.ename%TYPE;

Vsal emp.sal%TYPE;

Vdeptno emp.deptno%TYPE;

CURSOR C1 IS SELECT empno, ename, sal, deptno FROM emp

WHERE sal + NVL(comm, 0) > 25000;

BEGIN

OPEN C1;

LOOP

FETCH C1 INTO Vempno, Vename, Vsal, Vdeptno;

IF C1%FOUND THEN

DBMS\_OUTPUT.PUT\_LINE(Vempno || ' ' || Vename || ' ' || Vsal || ' ' || Vdeptno);

ELSE

EXIT;

END IF;

END LOOP;

CLOSE C1;

END;

**2. Write a block which uses a Cursor For Loop to select the five hightest earners from emp table and write their details to the message table which has the following three attributes: EmpNumber, Name and Salary.**

CREATE TABLE message (

EmpNumber NUMBER,

Name VARCHAR2(100),

Salary NUMBER

);

SET SERVEROUTPUT ON

DECLARE

CURSOR C2 IS

SELECT empno, ename, sal FROM emp ORDER BY sal DESC;

BEGIN

FOR record1 IN C2 LOOP

INSERT INTO message (EmpNumber, Name, Salary)

VALUES (record1.empno, record1.ename, record1.sal);

EXIT WHEN C2%ROWCOUNT = 5;

END LOOP;

COMMIT;

END;

*PL/SQL procedure successfully completed.*

**3. Create a table Emp\_sal\_inc that have three column (Emp\_id,Cur\_sal,Inc\_date). Now write a PL/SQL block of code will allow 2% salary increment of all employee of Computer Science department. After that a record is to be inserted into the above table**.

CREATE TABLE emp\_sal (

emp\_id VARCHAR2(8) PRIMARY KEY,

cur\_sal NUMBER(7,2) NOT NULL,

inc\_date DATE NOT NULL

);

SET SERVEROUTPUT ON

DECLARE

inc NUMBER;

emp\_sal\_rec emp%ROWTYPE;

CURSOR cur IS SELECT \* FROM emp WHERE deptno = (SELECT deptno FROM dept WHERE dname LIKE 'COMPUTER SCIENCE');

BEGIN

FOR emp\_sal\_rec IN cur

LOOP

inc := emp\_sal\_rec.sal \* 1.02;

INSERT INTO emp\_sal VALUES (emp\_sal\_rec.empno, inc, SYSDATE);

END LOOP;

END;

/

**4. Write a PL/SQL block of code to update the location of specific department number that will be taken from user. Display an appropriate message using SQL%FOUND based on existence of the record in the Department table and display an appropriate message using SQL%FOUND based on the non-existence of the record in Department Table.**

DECLARE

dno number := &deptno;

BEGIN

update dept set loc = 'KOLKATA' where deptno = dno;

if (SQL%FOUND) then

DBMS\_OUTPUT.PUT\_LINE('Updated');

else

DBMS\_OUTPUT.PUT\_LINE('Data NOT Found');

end if;

END;

/

*Enter value for dept\_no: 40*

*old 2: dno number := &dept\_no;*

*new 2: dno number := 40;*

*update dept set loc = 'KOLKATA' where dept\_no = dno;*

**5. Write a PL/SQL block of code using your own exception handling that will show an error message whenever you want to insert a null value in a not null column.**

SET SERVEROUTPUT ON;

DECLARE

user\_error EXCEPTION;

PRAGMA EXCEPTION\_INIT(user\_error, -01400); -- Use -01400 for ORA-01400 error code// -0150

BEGIN

INSERT INTO emp VALUES (NULL, 'Subir', 'REARCH', 7900, '12-MAY-2002', 90000, 1200, 200);

EXCEPTION

WHEN user\_error THEN

DBMS\_OUTPUT.PUT\_LINE('CANNOT INSERT NULL VALUES');

END;

*CANNOT INSERT NULL VALUES*

**6. Write a PL/SQL block of code which raised ‘NO DATA FOUND’ exception when there is no employee joined in 1997 at the time of displaying 1997 joined employees**.

SET SERVEROUTPUT ON;

DECLARE

Vename emp.ename%type;

Vjob emp.job%type;

BEGIN

SELECT ename, job INTO Vename, Vjob FROM emp

WHERE hiredate BETWEEN DATE '1997-01-01' AND DATE '1997-12-31';

DBMS\_OUTPUT.PUT\_LINE(Vename || ' ' || Vjob);

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

DBMS\_OUTPUT.PUT\_LINE('No Employee hired in 97');

END;

/

*No Employee hired in 97*

*PL/SQL procedure successfully completed.*

7**. Write a PL/SQL Block of code to find the QOH amount from item\_master table. If QOH is less than 1 raise an user define exception “INSUFFICIENT STOCK”.**

CREATE TABLE ITEM\_MASTER (

ITEM\_ID INT PRIMARY KEY,

ITEM\_NAME VARCHAR2(100),

QOH NUMBER

);

DECLARE

OUT\_OF\_STOCK EXCEPTION;

QTYOH NUMBER;

BEGIN

SELECT QOH INTO QTYOH FROM ITEM\_MASTER;

IF QTYOH < 1 THEN

RAISE OUT\_OF\_STOCK;

END IF;

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

dbms\_output.put\_line('No data found in ITEM\_MASTER table');

WHEN OUT\_OF\_STOCK THEN

dbms\_output.put\_line('INSUFFICIENT STOCK');

END;

/

*No data found in ITEM\_MASTER table*

*PL/SQL procedure successfully completed.*