

## Assignment-9

- 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,Vname,Vsal, Vdeptno;
        IF C1%FOUND THEN
            Dbms_output.put_line(Vempno||' ' || Vname||' ' || Vsal ||' ' ||Vdeptno);
        ELSE
            EXIT;
        END IF;
    END LOOP;
    CLOSE C1;
END;
```

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

```
SET SERVEROUTPUT ON
DECLARE
    CURSOR C2 IS SELECT empno, sal, ename from emp order by sal desc;
BEGIN
    FOR record1 IN C1
    LOOP
        INSERT INTO message (EmpNumber, Name,Salary)
        VALUES (record1.empno, record1.sal, record1.ename);
        EXIT WHEN C1%ROWCOUNT=5;
    END LOOP;
    COMMIT;
END;
```

- 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_sal%ROWTYPE;
    CURSOR cur is select * from emp where deptno = (select deptno from dept
    where dname LIKE 'RESEARCH');

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;
```

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, -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;
```



# Laboratory Assignments

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