

```

DECLARE
A INT := &X;
BEGIN
FOR I IN REVERSE 1..10
LOOP
DBMS_OUTPUT.PUT_LINE(A||CHR(9)||'*'||CHR(9)||'||CHR(9)||'='||CHR(9)||A*I);
END LOOP;
END;

```

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```

DECLARE
A INT := &X;
I INT:=1;
BEGIN
WHILE I<10
LOOP
DBMS_OUTPUT.PUT_LINE(A||CHR(9)||'*'||CHR(9)||'||CHR(9)||'='||CHR(9)||A*I);
I:=I+1;
END LOOP;
END;

```

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```

DECLARE
A INT := &X;
I INT:=1;
BEGIN
LOOP
DBMS_OUTPUT.PUT_LINE(A||CHR(9)||'*'||CHR(9)||'||CHR(9)||'='||CHR(9)||A*I);
I:=I+1;
EXIT WHEN I>10;
END LOOP;
END;

```

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```

CREATE TABLE EMP9 AS SELECT * FROM EMP;
CREATE OR REPLACE PROCEDURE ABC(ID IN EMP9.EMPNO%TYPE)
AS
EDATA EMP9%ROWTYPE;
BEGIN
SELECT * INTO EDATA FROM EMP9 WHERE EMPNO=ID;
IF (EDATA.JOB='CLERK' OR EDATA.JOB='SALESMAN')
THEN
UPDATE EMP9 SET SAL=EDATA.SAL*1.05 WHERE EMPNO=ID;
ELSE
UPDATE EMP9 SET SAL=EDATA.SAL*1.075 WHERE EMPNO=ID;
END IF;
END;

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```
DECLARE
TYPE DATA_TYPE IS RECORD(
ROW INT,
ID INT,
ENAM VARCHAR2(10),
JOB VARCHAR2(9),
MGR NUMBER(4),
HIREDATE DATE,
SAL NUMBER(7,2),
COMM NUMBER(7,2),
DEPTNO NUMBER(2),
DNAME VARCHAR2(14),
LOC VARCHAR2(13)
);
EDATA DATA_TYPE;
BEGIN
SELECT      *          INTO          EDATA          FROM          (SELECT
ROWNUM,EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,DEPTNO,DNAME,LOC FROM
(SELECT EMPNO,ENAME,JOB,MGR,HIREDATE,SAL,COMM,E.DEPTNO,DNAME,LOC FROM
EMP E JOIN DEPT D ON E.DEPTNO=D.DEPTNO ORDER BY SAL DESC)) WHERE
ROWNUM=1;
  DBMS_OUTPUT.PUT_LINE(EDATA.ID||'   '||EDATA.ENAM||'   '||EDATA.JOB||'   '||EDATA.
SAL);
END;
```

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```
CREATE OR REPLACE PROCEDURE ABC(D NUMERIC)
AS
CURSOR      CUR      IS      SELECT      ROWNUM      AS      SNO,D.
DEPTNO,DNAME,LOC,ENAME,SAL,JOB,COMM FROM EMP E JOIN DEPT D ON E.
DEPTNO=D.DEPTNO WHERE D.DEPTNO=D;
INFO CUR%ROWTYPE;
BEGIN
OPEN CUR;
FETCH CUR INTO INFO;
DBMS_OUTPUT.PUT_LINE('DEPTNO '||INFO.DEPTNO);
DBMS_OUTPUT.PUT_LINE('DNAME '||INFO.DNAME);
DBMS_OUTPUT.PUT_LINE('LOCATION '||INFO.LOC);
DBMS_OUTPUT.PUT_LINE('=====');
DBMS_OUTPUT.PUT_LINE('S.NO   ENAME   SAL JOB COMM');
DBMS_OUTPUT.PUT_LINE('=====');
LOOP
DBMS_OUTPUT.PUT_LINE(INFO.SNO||'   '||INFO.ENAME||'   '||INFO.SAL||'   '||INFO.JOB||'
'||INFO.COMM);
FETCH CUR INTO INFO;
EXIT WHEN CUR%NOTFOUND;
END LOOP;
CLOSE CUR;
END;
```

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```
CREATE OR REPLACE PROCEDURE ABC1
AS
CURSOR CUR1 IS SELECT * FROM EMP WHERE SAL > 1000 AND JOB IN
('CLERK','MANAGER');
INFO CUR1%ROWTYPE;
BEGIN
OPEN CUR1;
LOOP
FETCH CUR1 INTO INFO;
EXIT WHEN CUR1%NOTFOUND;
IF (INFO.JOB='CLERK')
THEN
INSERT INTO TABL1 VALUES (INFO.EMPNO,INFO.ENAME,INFO.JOB,INFO.MGR,INFO.
HIREDATE,INFO.SAL*1.15,INFO.COMM,INFO.DEPTNO);
ELSE
INSERT INTO TABL1 VALUES (INFO.EMPNO,INFO.ENAME,INFO.JOB,INFO.MGR,INFO.
HIREDATE,INFO.SAL*1.2,INFO.COMM,INFO.DEPTNO);
END IF;
END LOOP;
CLOSE CUR1;
END;
```

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#### ASSINGMENT 1----

```
CREATE OR REPLACE PROCEDURE ABC(ID EMP.EMPNO%TYPE)
AS
CURSOR CUR IS SELECT * FROM EMP WHERE EMPNO=ID;
CURSOR CUR1(SAL1 INT) IS SELECT ROWNUM AS SNO,A.EMPNO,A.ENAME,B.ENAME AS
"MNAME",A.DEPTNO,A.SAL FROM EMP A LEFT OUTER JOIN EMP B ON B.EMPNO=A.
MGR WHERE A.SAL > SAL1;
EDATA CUR%ROWTYPE;
D CUR1%ROWTYPE;
BEGIN
OPEN CUR;
FETCH CUR INTO EDATA;
OPEN CUR1(EDATA.SAL);
DBMS_OUTPUT.PUT_LINE('SRNO    EMPNO    ENAME    MANAGER NAME
    DEPTNO');
LOOP
FETCH CUR1 INTO D;
EXIT WHEN CUR1%NOTFOUND;
DBMS_OUTPUT.PUT_LINE(D.SNO||CHR(9)||D.EMPNO||CHR(9)||D.ENAME||CHR(9)||D.
MNAME||CHR(9)||D.DEPTNO||CHR(9)||D.SAL);
END LOOP;
CLOSE CUR;
CLOSE CUR1;
END;
```

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## ASSINGMENT 2-----

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```
CREATE OR REPLACE FUNCTION VALIDATEDNO(D EMP.EMPNO%TYPE) RETURN
VARCHAR2
```

```
AS
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```
CURSOR CUR IS SELECT DEPTNO FROM EMP WHERE DEPTNO=D;
```

```
Z INT;
```

```
BEGIN
```

```
OPEN CUR;
```

```
FETCH CUR INTO Z;
```

```
IF (CUR%NOTFOUND)
```

```
THEN
```

```
RETURN 'FALSE';
```

```
ELSE
```

```
RETURN 'TRUE';
```

```
END IF;
```

```
CLOSE CUR;
```

```
END;
```

```
CREATE OR REPLACE PROCEDURE ABC(X INT)
```

```
AS
```

```
Y VARCHAR2(5);
```

```
TYPE ED IS RECORD(DEPTNO INT,DNAME VARCHAR2(20),MNSAL INT,MXSAL INT,ASAL
INT,SSAL INT,COUNT INT);
```

```
EDATA ED;
```

```
BEGIN
```

```
Y:=VALIDATEDNO(X);
```

```
IF(Y='TRUE')
```

```
THEN
```

```
SELECT * INTO EDATA FROM (SELECT E.DEPTNO,DNAME,MIN(SAL) AS
MNSAL,MAX(SAL) AS MXSAL,AVG(SAL) AS ASAL,SUM(SAL) AS SSAL,COUNT(SAL) AS
COUNT FROM EMP E JOIN DEPT D ON E.DEPTNO=D.DEPTNO GROUP BY E.
DEPTNO,DNAME) WHERE DEPTNO=X;
```

```
DBMS_OUTPUT.PUT_LINE('DEPARTMENT NO. = '||X);
```

```
DBMS_OUTPUT.PUT_LINE('DEPARTMENT NAME = '||EDATA.DNAME);
```

```
DBMS_OUTPUT.PUT_LINE('MINIMUM SALARY = '||EDATA.MNSAL);
```

```
DBMS_OUTPUT.PUT_LINE('MAXIMUM SALARY = '||EDATA.MXSAL);
```

```
DBMS_OUTPUT.PUT_LINE('AVERAGE SALARY = '||EDATA.ASAL);
```

```
DBMS_OUTPUT.PUT_LINE('TOTAL SALARY = '||EDATA.SSAL);
```

```
ELSE
```

```
DBMS_OUTPUT.PUT_LINE('DEPTNO NOT PRESENT');
```

```
END IF;
```

```
END;
```

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DECLARE

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A VARCHAR2(5);
BEGIN
A:=SAL_CALC(7900);
DBMS_OUTPUT.PUT_LINE(A);
END;
*****

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PRACTICE PAPER 1---ASSI.1
CREATE OR REPLACE FUNCTION SAL_CALC(ID INT) RETURN INT
AS
CURSOR CUR IS SELECT EMPNO FROM EMP WHERE EMPNO=ID;
Z CUR%ROWTYPE;
BEGIN
OPEN CUR;
FETCH CUR INTO Z;
IF(CUR%NOTFOUND)
THEN
RETURN 0;
ELSE
RETURN 1;
END IF;
END;
CREATE OR REPLACE PROCEDURE ABC(X INT)
AS
Y INT:=SAL_CALC(X);
CURSOR CUR IS SELECT * FROM EMP WHERE EMPNO=X;
EDATA CUR%ROWTYPE;
TYPE ED IS RECORD(DEPTNO INT,SSAL INT,ASAL INT);
EDATA1 ED;
BEGIN
IF (Y=1)
THEN
OPEN CUR;
FETCH CUR INTO EDATA;
SELECT * INTO EDATA1 FROM (SELECT DEPTNO,SUM(SAL) AS SSAL, AVG(SAL) AS
ASAL FROM EMP GROUP BY DEPTNO) WHERE DEPTNO=EDATA.DEPTNO;
DBMS_OUTPUT.PUT_LINE('EMPLOYEE NUMBER: '||EDATA.EMPNO);
DBMS_OUTPUT.PUT_LINE('NAME OF THE EMPLOYEE: '||EDATA.ENAME);
DBMS_OUTPUT.PUT_LINE('Total Salary paid in department: '||EDATA1.SSAL);
DBMS_OUTPUT.PUT_LINE('Average Salary: '||EDATA1.ASAL);
ELSE
DBMS_OUTPUT.PUT_LINE('EMPLOYEE NOT PRESENT');
END IF;
CLOSE CUR;
END;

```