

Partie IV :

1-

```
SET SERVEROUTPUT ON
DECLARE
TYPE MY_DEPT_TABLE_TYPE IS
TABLE OF DEPT.DNAME%TYPE
INDEX BY BINARY_INTEGER;
MY_DEPT_TABLE MY_DEPT_TABLE_TYPE;
CURSOR DEPT_CUR IS
SELECT DNAME,DEPTNO FROM DEPT;
J NUMBER(2);
BEGIN
    FOR I IN DEPT_CUR LOOP
        J:=I.DEPTNO/10;
        MY_DEPT_TABLE(J):=i.DNAME;
    END LOOP;

    FOR K IN 1 .. J LOOP
        DBMS_OUTPUT.PUT_LINE(MY_DEPT_TABLE(k));
    END LOOP;
END;
/
```

2-

```
SET SERVEROUTPUT ON
DECLARE
TYPE MY_DEPT_TABLE_TYPE IS TABLE OF DEPT%ROWTYPE INDEX BY BINARY_INTEGER;
MY_DEPT_TABLE MY_DEPT_TABLE_TYPE;
CURSOR DEPT_CUR IS
SELECT * FROM DEPT;
K NUMBER(2);
J NUMBER(2);
BEGIN
    FOR i IN DEPT_CUR LOOP
        j:=i.deptno/10;
        MY_DEPT_TABLE(j).DEPTNO:=i.deptno;
        My_Dept_Table(j).Dname:=i.dname;
        MY_DEPT_TABLE(j).Loc:=i.loc;
    END LOOP;
    FOR K IN 1 .. J LOOP
        DBMS_OUTPUT.PUT_LINE ('DEPT.'||MY_DEPT_TABLE(k).deptno || ', ' || MY_DEPT_TABLE(k).dname
        || 'is located in ' || My_Dept_Table(k).loc);
    END LOOP;
END;
/
```

TD2 EXO3

1-

```
SET ServerOutPut ON
DECLARE
TYPE tab_type IS TABLE of NUMBER(2) INDEX BY binary_integer;
Messages tab_type;
BEGIN
    FOR i in 1..10 LOOP
        IF (i!=6 AND i!=8) THEN
            Messages(i):=i;
        END IF;
    END LOOP;
    FOR i in 1 .. 10 LOOP
        IF (i!=6 AND i!=8) THEN
            DBMS_OUTPUT.PUT_LINE(Messages(i));
        END IF;
    END LOOP;
END;
```

```

END LOOP;
END;
/
2-
insert into emp(EMPNO,ENAME)
VALUES(&S_EMPno,'&S_ENAME')
Accept S_SAL prompt 'Entrez un salaire')
DECLARE
V_EMPNO EMP.EMPNO%TYPE;
V_SAL EMP.SAL%TYPE;
V_COM EMP.COMM%TYPE;
BEGIN
V_EMPNO=&S_EMPNO;
V_SAL=&S_SAL;
IF V_SAL IS NULL THEN V_COMM:=0;
elsif v_sal<1000 then
V_COM:=V_SAL*0.1;
ELSIF V_SAL BETWEEN 1000 AND 1500 THEN
v_COM:=V_SAL*0.15;
ELSE V_COM = V_SAL*0.2;
END IF;
UPDATE EMP
SET SAL:=V_SAL, COM:= V_COM
WHERE EMPNO=V_EMPNO;
END;

```

EXO 3- TD2

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3-
DECLARE
TYPE MESSAGE_TYPE is TABLE OF NUMBER(4) INDEX BY BINARY_INTEGER;
MESSAGE MESSAGE_type;
j NUMBER(2);
k NUMBER(2);
BEGIN
j:=0;
FOR I IN 1... 10 LOOP
IF(I<>6 AND i<>8) THEN
j=j+1;
MESSAGE(j) :=i;
END IF;
FOR I in .. j loop
K:=message(i);
if mod(k,2)=1 then
DBMS_output.put_line(k,' Nombre impair');
else
DBMS_output.put_line(k,'Nombre pair');
END if;
end loop;
end;
4-
ALTER TABLE EMP
ADD(Stars varchar2(100));
5-
ACCEPT S_empno PROMPT 'ENTREZ numEmp'
DECLARE
V_ETOILE VARCHAR2(20) := ' '
v_nb number(2);
BEGIN
SELECT SAL
INTO V_SAL from EMP
WHERE EMPNO= &S_empno;

```

```
V_nb =Round(V_sal/100);  
FOR I IN 1..V_nb loop  
  v_etoile := v_toile || '*';  
END LOOP  
UPDATE EMP  
SET START=v_toile  
where empno=&S_empno;  
commit;  
END;
```