

PLSQL TP 1

Objectif :

- 1. Développer un bloc PLSQL simple.**
- 2. Traitements conditionnels et Traitements répétitifs**

Exercice 1 :

```
1. CREATE TABLE pair_impair(Num NUMBER(3), Reponse VARCHAR2(10)) /
2. DECLARE
    i pair_impair.Num%TYPE;
BEGIN
    i:=1;
    loop
        if MOD(i,2)=0 THEN
            INSERT INTO pair_impair(Num,Reponse) VALUES(i,'pair');
        else
            INSERT INTO pair_impair(Num,Reponse) VALUES(i,'impair');
        END if;
        i:=i+1;
        EXIT WHEN i>100;
    END loop;
    COMMIT;
END;
/
```

Exercice 2 :

```
1. CREATE TABLE premier(Num NUMBER(3), Reponse VARCHAR2(10)) /

2. DECLARE
    j premier.Num%TYPE;
    i NUMBER(4);
    nbr NUMBER(4);
BEGIN
    j:=1;
    loop
        i:=1;
        nbr:=0;
        loop
            if MOD(j,i)=0 THEN
                nbr:=nbr+1;
            END if;
            i:=i+1;
            EXIT WHEN i>j;
        
```

```

        END loop;
        if nbr=2 OR j=1 THEN
            INSERT INTO premier(Num,Reponse) VALUES(j,'oui');
        else
            INSERT INTO premier(Num,Reponse) VALUES(j,'non');
        END if;
        j:=j+1;
        EXIT WHEN j>100;
    END loop;
    COMMIT;
END;
/

```

Exercise 3 :

```

1. CREATE TABLE calcul(Num1 NUMBER(3), Num2 NUMBER(3), Op
   VARCHAR2(1), Resultat NUMBER(3)); /

2. ACCEPT n1 PROMPT 'SAISIR LE NUM 1 ';
   ACCEPT oper PROMPT 'SAISIR L OPERATION ';
   ACCEPT n2 PROMPT 'SAISIR LE NUM 2 ';
   DECLARE

   BEGIN
       if '&oper' LIKE '*' THEN
           INSERT INTO calcul(Num1,Num2,Op,Resultat)
VALUES(&n1,&n2,'&oper',&n1*&n2);
       else
           if '&oper' LIKE '/' THEN
               INSERT INTO calcul(Num1,Num2,Op,Resultat)
VALUES(&n1,&n2,'&oper',&n1/&n2);
           else
               if '&oper' LIKE '+' THEN
                   INSERT INTO calcul(Num1,Num2,Op,Resultat)
VALUES(&n1,&n2,'&oper',&n1+&n2);
               else
                   if '&oper' LIKE '-' THEN
                       INSERT INTO calcul(Num1,Num2,Op,Resultat)
VALUES(&n1,&n2,'&oper',&n1-&n2);
                   END if;
               END if;
           END if;
       END if;
   END;
/

```

Exercise 4 :

```
1. CREATE TABLE PGCD(Num1 NUMBER,Num2 NUMBER,Num3 NUMBER) /
2. DECLARE
i NUMBER;
j NUMBER;
a NUMBER;
b NUMBER;
BEGIN
    i:=1;
    loop
        j:=1;
        loop
            a:=i;
            b:=j;
            if a=b THEN
                INSERT INTO PGCD(Num1,Num2,Num3) VALUES(i,j,1);
            else
                while (a!=b) loop
                    if(a>b) THEN
                        a:=a-b;
                    else
                        b:=b-a;
                    END if;
                END loop;
                INSERT INTO PGCD(Num1,Num2,Num3) VALUES(i,j,a);
            END if;
            j:=j+1;
            EXIT WHEN j>i;
        END loop;
        i:=i+1;
        EXIT WHEN i>10;
    END loop;
END;
/
```