

Compte rendu du TP3 – PL/SQL

1)

```
CREATE OR REPLACE TRIGGER NB_TUPLES
AFTER DELETE OR INSERT ON DEPT
DECLARE
compteur NUMBER(5);
BEGIN
    SELECT COUNT(NUMDEP) INTO compteur FROM DEPT;
    dbms_output.put_line('Nombre de départements : ' || compteur);
END;
```

Test

```
set serveroutput on;
INSERT INTO DEPT VALUES(5,'VENTE','Pau');
```

Résultat :

Nombre de départements : 5

2)

```
CREATE OR REPLACE TRIGGER PREFIXAGE
BEFORE INSERT ON DEPT
FOR EACH ROW;
DECLARE
BEGIN
    :New.NOMDEP := 'DEPT_' || :New.NOMDEP;
END;
```

Test

set serveroutput on;

```
INSERT INTO DEPT VALUES(5,'VENTE','Pau');
```

Résultat :

DEPT_VENTE

3)

```
CREATE SEQUENCE MONCOMPTEUR INCREMENT BY 1 START BY 20;
```

```
CREATE OR REPLACE TRIGGER USAGE_COMPTEUR
```

```
BEFORE INSERT ON EMP
```

```
FOR EACH ROW
```

```
BEGIN
```

```
  :New.NUMEMP := MONCOMPTEUR.NEXTVAL;
```

```
END;
```

Test

set serveroutput on;

```
INSERT INTO EMP VALUES(67,'TEST','test',1,1,1,COORDONNEE('Pau',64600,'000',NULL));
```

Résultat :

NUMEMP de 'TEST' = 20

4) et 5)

```
CREATE SEQUENCE MONCOMPTEUR INCREMENT BY 1 START BY 20;
```

```
create or replace TRIGGER USAGE_COMPTEUR
```

```
BEFORE INSERT ON EMP
```

```
FOR EACH ROW
```

```
DECLARE
```

```
n NUMBER(3);
```

```
BEGIN
```

```
:New.NUMEMP := MONCOMPTEUR.NEXTVAL;
```

```
SELECT COUNT(*) INTO n FROM DEPT WHERE numdep = :New.numdep;
```

```
IF n = 0 THEN
```

```
    INSERT INTO DEPT VALUES(:New.numdep, 'NON ATTRIBUE', 'INCONNU');
```

```
END IF;
```

```
END;
```

Test

```
set serveroutput on;
```

```
INSERT INTO EMP VALUES(67,'TEST','test',1,1,1,COORDONNEE('Pau',64600,'000',NULL));
```

Résultat :

NUMEMP de 'TEST' = 20

Department 7 de nom 'NON ATTRIBUE' et de localisation 'INCONNU' créé