***Murillo Arthur TD1 | TP1***

**Compte rendu du TP2 – PL/SQL**

***Partie 1***

**1)**

CREATE OR REPLACE TYPE COORDONNEE AS OBJECT (

Ville VARCHAR2(50),

CP NUMBER(5),

Tel VARCHAR2(14),

Fax VARCHAR2(50)

);

CREATE TABLE EMP2 (

numEmp NUMBER(10) PRIMARY KEY,

Nom VARCHAR2(20),

Coord COORDONNEE

) ;

**2)**

ALTER TABLE EMP ADD Coordonee COORDONEE;

**3)**

INSERT INTO EMP VALUES (14,'DUPUIS YVONNE', 'DEVELOPPEUR', NULL, 1, 17600, COORDONNEE('Lyon', 69000, '04725', NULL));

INSERT INTO EMP VALUES (15,'DUPOND JEAN', 'DEVELOPPEUR', NULL, 2, 14000, COORDONNEE('Paris', 75000, NULL, NULL));

INSERT INTO EMP VALUES (16,'CRINIERE BELLE', 'DEVELOPPEUR', NULL, 2, 1200, COORDONNEE('Grenoble', 38001,NULL, NULL));

INSERT INTO EMP VALUES (17,'AUBERT LOUIS', 'DEVELOPPEUR', NULL, 2, 12800, COORDONNEE('Lyon', 69100, '0478556585', NULL));

INSERT INTO EMP VALUES (18,'MAURI JOHN', 'DEVELOPPEUR', NULL, 2, 25000, COORDONNEE('Anglet', 64200, NULL, NULL));

**4)**

UPDATE EMP SET Coordonee = COORDONNEE('Anglet', '64200', NULL, NULL), salaire = 30000 WHERE numemp = 2;

UPDATE EMP SET Coordonee = COORDONNEE('Anglet', '64200', '0698098989', NULL), salaire = 20000 WHERE numemp = 3;

**5)**

UPDATE EMP SET salaire = &salaire WHERE numemp = &numEmp;

**6)**

SELECT E.COORDONEE.Ville FROM EMP E;

**7)**

SELECT COUNT(DISTINCT (COORDONEE).Ville) FROM EMP;

**8)**

SELECT NOM\_COMPLET FROM EMP WHERE (COORDONEE).ville='Anglet';

**9)**

SELECT NOM\_COMPLET FROM EMP WHERE (COORDONEE).Tel IS NOT NULL;

**10)**

SELECT e.COORDONEE.ville AS ville FROM EMP e JOIN DEPT D ON e.COORDONEE.ville = d.nomloc;

**11)**

UPDATE EMP SET COORDONEE = COORDONNEE('Anglet',64200, '0768812826', 'jean@gmail.com') WHERE NOM\_COMPLET = 'XAVIER Richard';

***Partie 2***

**1)**

create or replace PROCEDURE INSERT\_EMP

(

NEMP IN NUMBER

, NAME IN VARCHAR2

, POSTE IN VARCHAR2

, CHEF IN NUMBER

, DEPART IN NUMBER

, FLOUZE IN NUMBER

, LAVILLE IN VARCHAR2

, LECP IN NUMBER

, TELEPHONE IN VARCHAR2

, LEFAX IN VARCHAR2

) AS

BEGIN

INSERT INTO EMP VALUES (NEMP, NAME, POSTE, CHEF, DEPART, FLOUZE, COORDONNEE(LAVILLE,LECP,TELEPHONE,LEFAX));

END INSERT\_EMP;

DECLARE

BEGIN

INSERT\_EMP(20, 'JEAN Bon', 'DEVELOPPEUR', NULL, 2, 300000, 'Bayonne', 64100, '0768812826', '08969549');

END;

**2)**

CREATE OR REPLACE PROCEDURE MAJ\_EMP

(

NAME IN VARCHAR2

, SALARY IN NUMBER

) AS

BEGIN

UPDATE EMP SET salaire = SALARY WHERE NOM\_COMPLET = NAME;

commit;

END MAJ\_EMP;

DECLARE

BEGIN

MAJ\_EMP('XAVIER Richard', 15000);

END;

**3)**

CREATE OR REPLACE FUNCTION COUNT\_EMP RETURN NUMBER AS

nombre NUMBER(4);

BEGIN

SELECT COUNT(NUMEMP) INTO nombre FROM EMP;

RETURN nombre;

END COUNT\_EMP;

DECLARE

BEGIN

dbms\_output.put\_line(COUNT\_EMP());

END;

**4)**

CREATE OR REPLACE FUNCTION COUNT\_EMP2

(

LAVILLE IN VARCHAR2

) RETURN NUMBER AS

nombre NUMBER(4);

BEGIN

SELECT COUNT(NUMEMP) INTO nombre FROM EMP e WHERE e.coordonee.ville = LAVILLE;

RETURN nombre;

END COUNT\_EMP2;

set serveroutput on;

DECLARE

BEGIN

dbms\_output.put\_line(COUNT\_EMP2('Anglet'));

END;