**PL/SQL TP 2 ASPE**

**COISSARD Kévin 10/02**

**I – CIRQUE**

create table PERSONNEL

(v\_nom VARCHAR2(15), v\_role varchar2(20),

constraint pk\_PERSONNEL\_v\_nom primary key (v\_nom));

INSERT INTO PERSONNEL VALUES ('martin','jongleur');

INSERT INTO PERSONNEL VALUES ('marion','steak');

INSERT INTO PERSONNEL VALUES ('jeremie','lion');

INSERT INTO PERSONNEL VALUES ('kevin','dompteur');

INSERT INTO PERSONNEL VALUES ('fanny','steak');

INSERT INTO PERSONNEL VALUES ('guillaume','jongleur');

INSERT INTO PERSONNEL VALUES ('christophe','techniciendesurface');

SELECT count (\*) FROM PERSONNEL;

2)

set serveroutput on

**DECLARE**

v\_nbPersonnes NUMBER(3);

v\_nbJongleurs NUMBER(3);

v\_pourcentage NUMBER(5,2);

**BEGIN**

v\_nbPersonnes:=0;

v\_nbJongleurs:=0;

v\_pourcentage:=0;

SELECT COUNT (\*) INTO v\_nbPersonnes

FROM PERSONNEL ;

SELECT COUNT (\*) INTO v\_nbJongleurs

FROM PERSONNEL

WHERE v\_role='jongleur';

SELECT (v\_nbJongleurs\*100/v\_nbPersonnes) INTO v\_pourcentage

FROM PERSONNEL;

DBMS\_OUTPUT.PUT\_LINE('nombre de personnes =' || v\_nbPersonnes || ' ' || 'nombre de jongleurs =' || v\_nbJongleurs || 'proportion de jongleurs =' || v\_pourcentage);

**END;**

3)

set serveroutput on

**DECLARE**

v\_nbPersonnes NUMBER(3);

v\_nbJongleurs NUMBER(3);

v\_pourcentage NUMBER(5,2);

e\_tableVide EXCEPTION;

**BEGIN**

SELECT COUNT (\*) INTO v\_nbPersonnes FROM PERSONNEL;

DBMS\_OUTPUT.PUT\_LINE('Nombre d'employés : ' || v\_nbPersonnes);

SELECT COUNT (\*) INTO v\_nb\_jongleur FROM PERSONNEL WHERE role = 'Jongleur';

DBMS\_OUTPUT.PUT\_LINE('Nombre de Jongleurs : ' || v\_nbJongleurs);

IF (v\_nbPersonnes is null) THEN

RAISE e\_tableVide;

**END IF;**

select (v\_nbJongleurs\*100/v\_nbPersonnes) INTO v\_pourcentage FROM PERSONNEL;

DBMS\_OUTPUT.PUT\_LINE('Pourcentage de jongleurs : ' || v\_pourcentage);

**EXCEPTION**

WHEN e\_tableVide THEN

RAISE\_APPLICATION\_ERROR(-20001, 'La table Personnel est vide');

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE(SQLERRM);

**END;**

**II - CATALOGUE**

set serveroutput on

**DECLARE**

CURSOR c\_tab is

SELECT \* FROM TAB;

v\_tab c\_tab%ROWTYPE;

**BEGIN**

OPEN c\_tab;

LOOP

FETCH c\_tab INTO v\_tab;

EXIT WHEN c\_tab%NOTFOUND;

DBMS\_OUTPUT.PUT\_LINE('L''objet ' ||v\_tab.TNAME|| ' est de type ' || v\_tab.tabtype);

END LOOP;

CLOSE c\_tab;

**END;**

**III – LES GROS NAVIONS**

CREATE TABLE AVION(

AvNum NUMBER constraint PK\_AVION Primary Key,

AvNom VARCHAR2(15) not null,

Capacite NUMBER not null,

Localisation VARCHAR2(20) not null);

CREATE TABLE PILOTE(

PlNum NUMBER constraint PK\_PILOTE Primary Key,

PlNom VARCHAR2(15) not null,

PlPrenom VARCHAR2(15) not null,

Ville VARCHAR2(20) not null,

Salaire NUMBER not null

);

CREATE TABLE VOL(

VolNum NUMBER constraint PK\_VOL Primary Key,

PlNum NUMBER not null ,

AvNum NUMBER not null,

VilleDep VARCHAR2(20) not null,

VilleArr VARCHAR2(20) not null,

HeureDep TIMESTAMP not null,

HeureArr TIMESTAMP not null,

Constraint fk\_PILOTE\_VOL Foreign Key (PlNum) references PILOTE(PlNum),

Constraint fk\_AVION\_VOL Foreign Key (AvNum) references AVION(AvNum));

INSERT INTO AVION values (1, 'AirWays', 100, 'Lyon');

INSERT INTO AVION values (2, 'CapilAir', 150, 'Marseille');

INSERT INTO AVION values (3, 'MinistAir', 200, 'Paris');

INSERT INTO AVION values (4, 'AmAir', 250, 'Clichy');

INSERT INTO AVION values (5, 'PullovAir', 300, 'Nice');

INSERT INTO AVION values (6, 'GalAir', 350, 'Marly-Gaumont');

INSERT INTO AVION values (7, 'MoutoniAir', 400, 'Moulins');

INSERT INTO AVION values (8, 'CroiziAir', 450, 'Roanne');

INSERT INTO PILOTE values (1, 'HULOT', 'Nicolas', 'Clichy', 15);

INSERT INTO PILOTE values (2, 'DION', 'Céline', 'Marseille', 200000);

INSERT INTO PILOTE values (3, 'SEBASTIEN', 'Patoche', 'Moulins', 2000);

INSERT INTO PILOTE values (4, 'RAMBURRUN', 'Java', 'Lyon', 1000000);

INSERT INTO PILOTE values (5, 'EXPLORATRICE', 'Dora', 'Marly-Gaumont', 500000);

INSERT INTO VOL values (7, 3, 8, 'Biaritz', 'Lille', TO\_TIMESTAMP('07:20', 'HH24:MI'), TO\_TIMESTAMP('08:05', 'HH24:MI') );

Insert into VOL values (6, 4, 2, 'La Rochelle', 'Strasbourg', TO\_TIMESTAMP('10:00', 'HH24:MI'), TO\_TIMESTAMP('11:05', 'HH24:MI') );

2)

set serveroutput on

**DECLARE**

CURSOR c\_vol is

select volnum, avnum, TO\_CHAR(heuredep, 'HH24:MI') as Depart, TO\_CHAR(heurearr, 'HH24:MI') as arrive, heurearr - heuredep as duree from VOL

WHERE avnum in (1,2,4,8);

v\_vol c\_vol%ROWTYPE;

**BEGIN**

OPEN c\_vol;

LOOP

FETCH c\_vol INTO v\_vol;

EXIT WHEN c\_vol%NOTFOUND;

UPDATE VOL SET HeureArr=HeureDep+v\_vol.duree\*0.9

WHERE AvNum=1 or AvNum=4;

UPDATE VOL SET HeureArr=HeureDep+v\_vol.duree\*0.85

WHERE AvNum=2 or AvNum=8;

END LOOP;

CLOSE c\_vol;

**END ;**