TD 1

Langage de Description de Données

Base de données Semestre 3

1

```
1 CREATE TABLE resto
    idR char (3),
    nomR varchar2(20),
    villeR varchar2(20),
    dateOuv date,
    dateFerm date
8);
10 ALTER TABLE resto
  ADD CONSTRAINT pk_resto PRIMARY KEY(idR);
  CREATE TABLE vin
  idV char(3),
  nomV varchar2(20),
    couleurV varchar2(10)
  );
  ALTER TABLE vin
21 ADD CONSTRAINT pk_vin PRIMARY KEY(idV);
23 CREATE TABLE plat
   idP char(3),
   nomP varchar2(20),
  placeP varchar2(10),
    idV char(3)
  );
 ALTER TABLE plat
  ADD ( CONSTRAINT pk_plat PRIMARY KEY(idP),
      CONSTRAINT fk_plat_idV FOREIGN KEY(idV) REFERENCES vin(idV)
  CREATE TABLE propV(
   idR char(3),
    idV char(3),
  prixV number(4,2)
40 );
```

```
ALTER TABLE propV

AND ( CONSTRAINT pk_propV PRIMARY KEY(idR, idV),

CONSTRAINT fk_propV_idR FOREIGN KEY(idR) REFERENCES resto,

CONSTRAINT fk_propV_idV FOREIGN KEY(idV) REFERENCES vin

(b);
```

Listing 1 – Création de structures

2

```
CREATE TABLE propP AS SELECT * FROM olga.propP;

ALTER TABLE propP

ADD (CONSTRAINT pk_propP PRIMARY KEY(idR, idP),

CONSTRAINT fk_idR FOREIGN KEY(idR) REFERENCES resto(idR),

CONSTRAINT fk_idP FOREIGN KEY(idP) REFERENCES plat(idP)

);
```

Listing 2 – Recopie de table

3

```
add (
add (
constraint chk_propP_spec CHECK(spec in ('0', 'N')),
Constraint chk_propP_prixP CHECK(prixP <= 50)
;

ALTER TABLE propP ADD CONSTRAINT chk_propP_prepa CHECK(spec = '0' OR prepa <= 60);

ALTER TABLE resto ADD CONSTRAINT chk_resto_ouv CHECK(MONTHS_BETWEEN(dateOuv, dateFerm >= 6));

ALTER TABLE propP MODIFY spec DEFAULT 'N';
```

Listing 3 – Modification de table

4

```
ALTER TABLE plat MODIFY idV CONSTRAINT nn_idV NOT NULL;
```

Listing 4 – Contrainte

5

Pour voir les données : **select** Pour voir la structure : **describe** Pour voir les contraintes mise en place :

```
SET LONG 9000 --largeur colonne, afficher
SELECT constraint_name, constraint_type, search_condition
FROM user_constraint
```

```
4 WHERE table_name = '&nom_table'; --& = paramètre
```

Listing 5 – Visualiser les contraintes

6

```
SELECT *
FROM &nom_table_a_consulter;
```

Listing 6 – Visualiser le contenu

7

```
1 ALTER TABLE propV ADD moyPrixV number(4,2); -- \o/
```

Listing 7 – Modifier la structure

8

```
ALTER TABLE propP --precedemment number(2) xx

MODIFY prixP number(4,2)

ADD CONSTRAINT chk_proP_spec CHECK (spec != '0' OR

prixP between 10 AND 20 OR

prepa > 60);
```

Listing 8 – Modifier la structure

9

```
1 CREATE TABLE platV12 AS SELECT * FROM plat WHERE idV='V12';
```

Listing 9 – Créer une table par un select

10

```
CREATE TABLE propV12 AS SELECT idR FROM propV WHERE idV='V12';
```

Listing 10 – Créer une table par un select

11

```
CREATE TABLE propVBis AS SELECT idV, idR, moyP, prixP, prixV
FROM propV;
DROP TABLE propV;
RENAME propVBis TO propV;
ALTER TABLE propV
ADD ( CONSTRAINT pk_propV PRIMARY KEY(idR, idV),
CONSTRAINT fk_propV_idR FOREIGN KEY(idR) REFERENCED resto,
CONSTRAINT fk_propV_idV FOREIGN KEY(idV) REFERENCES vin
);
```

Listing 11 – Modifier l'ordre des colonnes