TP1 BDA

Jalade Samuel 2B

Introduction :

Dans ce TP nous allons revoir les manipulation de données ainsi que la création de table pour notre base de données.

Sommaire :

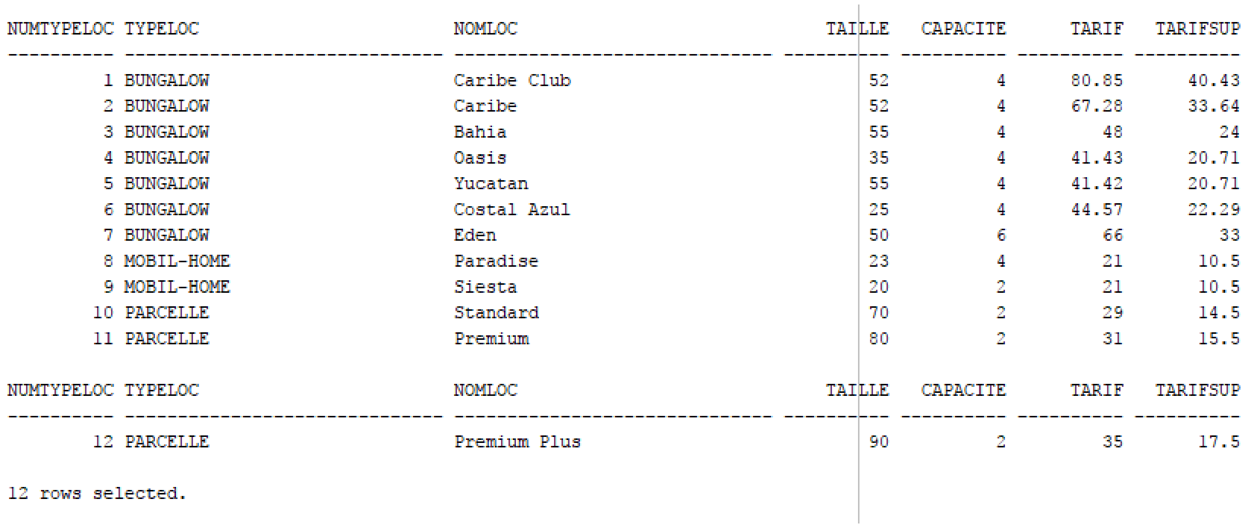
2) Création de la BD initiale

3) Commande :

SELECT NUMTYPELOC,TYPELOC,NOMLOC,TAILLE,CAPACITE,TARIF,TARIFSUP

FROM TYPE_LOCATION ;

Résultat :



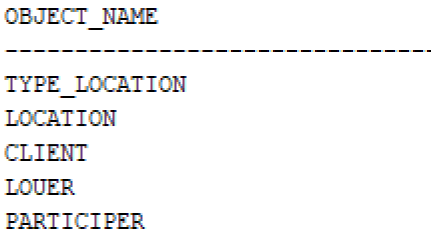
```
NUMTYPELOC TYPELOC                        NOMLOC                             TAILLE   CAPACITE      TARIF   TARIFSUP
---------- ------------------------------ ------------------------------ ---------- ---------- ---------- ----------
         1 BUNGALOW                       Caribe Club                            52          4      80.85      40.43
         2 BUNGALOW                       Caribe                                 52          4      67.28      33.64
         3 BUNGALOW                       Bahia                                  55          4         48         24
         4 BUNGALOW                       Oasis                                  35          4      41.43      20.71
         5 BUNGALOW                       Yucatan                                55          4      41.42      20.71
         6 BUNGALOW                       Costal Azul                            25          4      44.57      22.29
         7 BUNGALOW                       Eden                                   50          6         66         33
         8 MOBIL-HOME                     Paradise                               23          4         21       10.5
         9 MOBIL-HOME                     Siesta                                 20          2         21       10.5
        10 PARCELLE                       Standard                               70          2         29       14.5
        11 PARCELLE                       Premium                                80          2         31       15.5

NUMTYPELOC TYPELOC                        NOMLOC                             TAILLE   CAPACITE      TARIF   TARIFSUP
---------- ------------------------------ ------------------------------ ---------- ---------- ---------- ----------
        12 PARCELLE                       Premium Plus                           90          2         35       17.5

12 rows selected.
```

4)

Commande :

select OBJECT_NAME, CREATED from USER_OBJECTS where OBJECT_TYPE = 'TABLE';

Résultats :



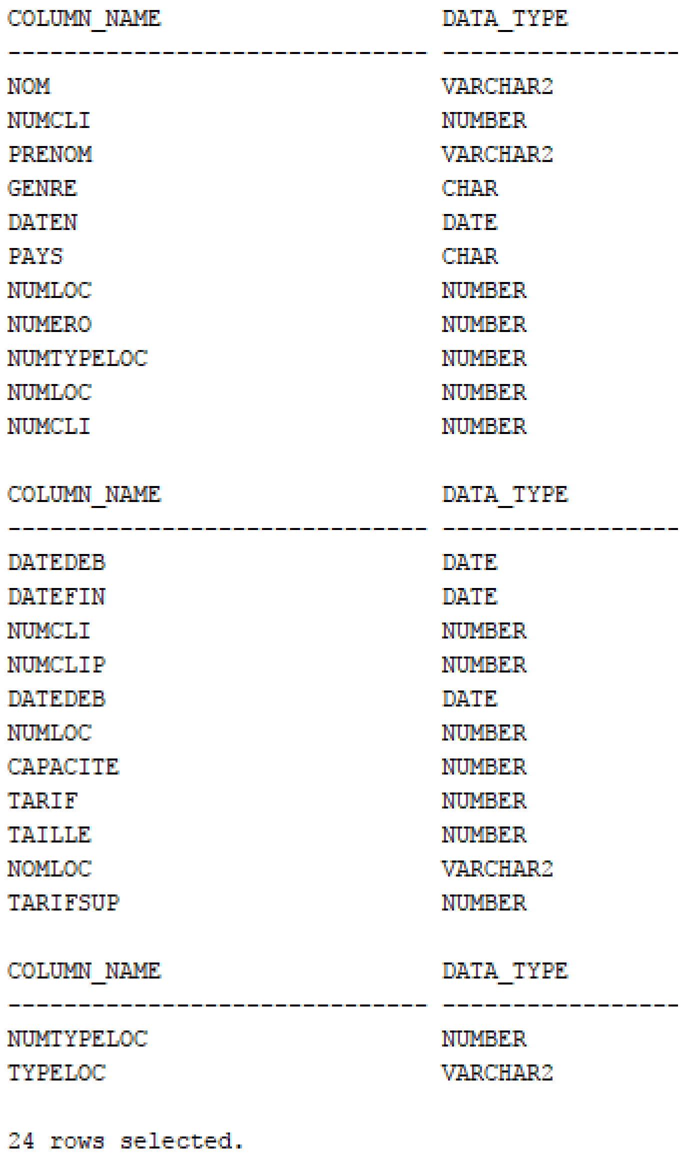
```
OBJECT_NAME
--------------------------------
TYPE_LOCATION
LOCATION
CLIENT
LOUER
PARTICIPER
```

Commande :

select COLUMN_NAME, DATA_TYPE, DATA_LENGTH, DATA_PRECISION from USER_TAB_COLUMNS

order by TABLE_NAME;

Résultat :



```
COLUMN_NAME                    DATA_TYPE
------------------------------ -----------------
NOM                            VARCHAR2
NUMCLI                         NUMBER
PRENOM                         VARCHAR2
GENRE                          CHAR
DATEN                          DATE
PAYS                           CHAR
NUMLOC                         NUMBER
NUMERO                         NUMBER
NUMTYPELOC                     NUMBER
NUMLOC                         NUMBER
NUMCLI                         NUMBER

COLUMN_NAME                    DATA_TYPE
------------------------------ -----------------
DATEDEB                        DATE
DATEFIN                        DATE
NUMCLI                         NUMBER
NUMCLIP                        NUMBER
DATEDEB                        DATE
NUMLOC                         NUMBER
CAPACITE                       NUMBER
TARIF                          NUMBER
TAILLE                         NUMBER
NOMLOC                         VARCHAR2
TARIFSUP                       NUMBER

COLUMN_NAME                    DATA_TYPE
------------------------------ -----------------
NUMTYPELOC                     NUMBER
TYPELOC                        VARCHAR2

24 rows selected.
```

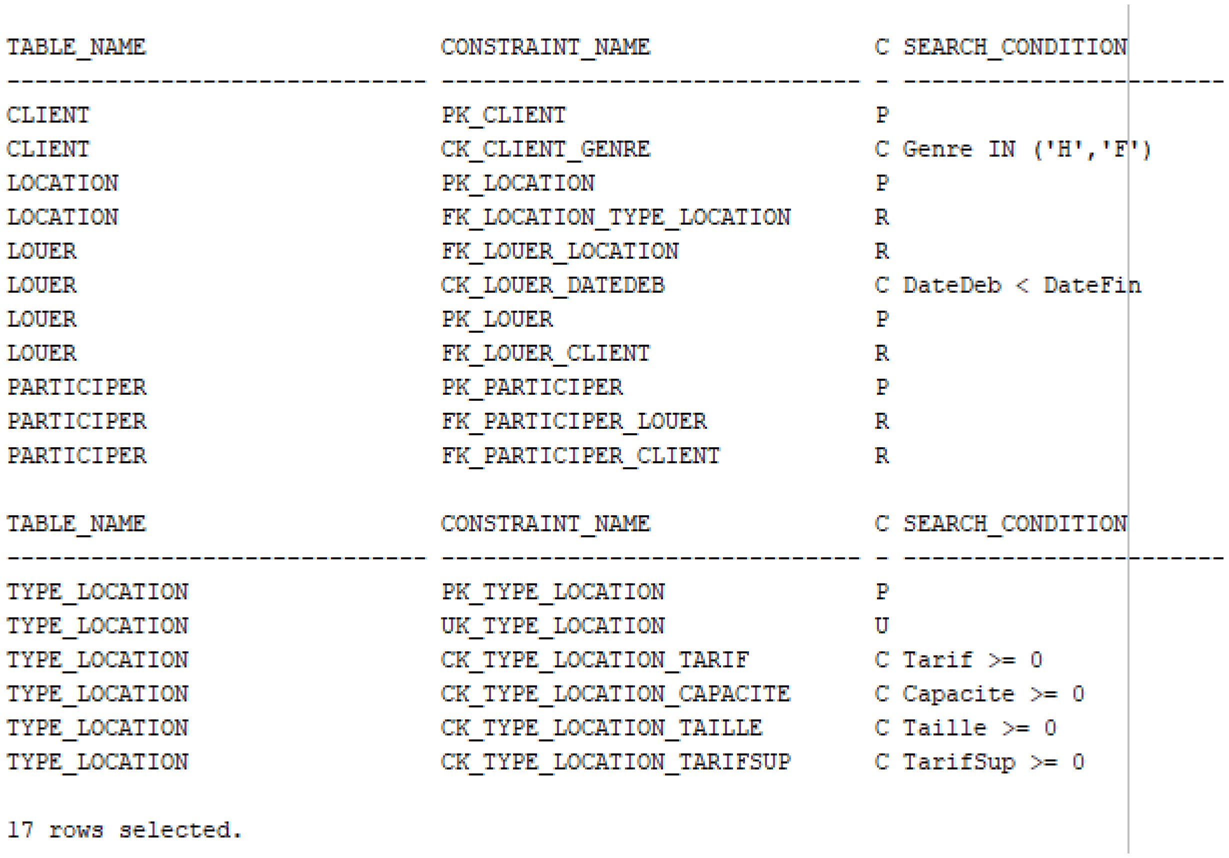
Commande :

select TABLE_NAME, CONSTRAINT_NAME,CONSTRAINT_TYPE, SEARCH_CONDITION

from USER_CONSTRAINTS

order by TABLE_NAME;

Résultat :



```
TABLE_NAME                     CONSTRAINT_NAME                C SEARCH_CONDITION
------------------------------ ------------------------------ - -----------------------
CLIENT                         PK_CLIENT                      P
CLIENT                         CK_CLIENT_GENRE                C Genre IN ('H','F')
LOCATION                       PK_LOCATION                    P
LOCATION                       FK_LOCATION_TYPE_LOCATION      R
LOUER                          FK_LOUER_LOCATION              R
LOUER                          CK_LOUER_DATEDEB               C DateDeb < DateFin
LOUER                          PK_LOUER                       P
LOUER                          FK_LOUER_CLIENT                R
PARTICIPER                     PK_PARTICIPER                  P
PARTICIPER                     FK_PARTICIPER_LOUER            R
PARTICIPER                     FK_PARTICIPER_CLIENT           R

TABLE_NAME                     CONSTRAINT_NAME                C SEARCH_CONDITION
------------------------------ ------------------------------ - -----------------------
TYPE_LOCATION                  PK_TYPE_LOCATION               P
TYPE_LOCATION                  UK_TYPE_LOCATION               U
TYPE_LOCATION                  CK_TYPE_LOCATION_TARIF         C Tarif >= 0
TYPE_LOCATION                  CK_TYPE_LOCATION_CAPACITE      C Capacite >= 0
TYPE_LOCATION                  CK_TYPE_LOCATION_TAILLE        C Taille >= 0
TYPE_LOCATION                  CK_TYPE_LOCATION_TARIFSUP      C TarifSup >= 0

17 rows selected.
```

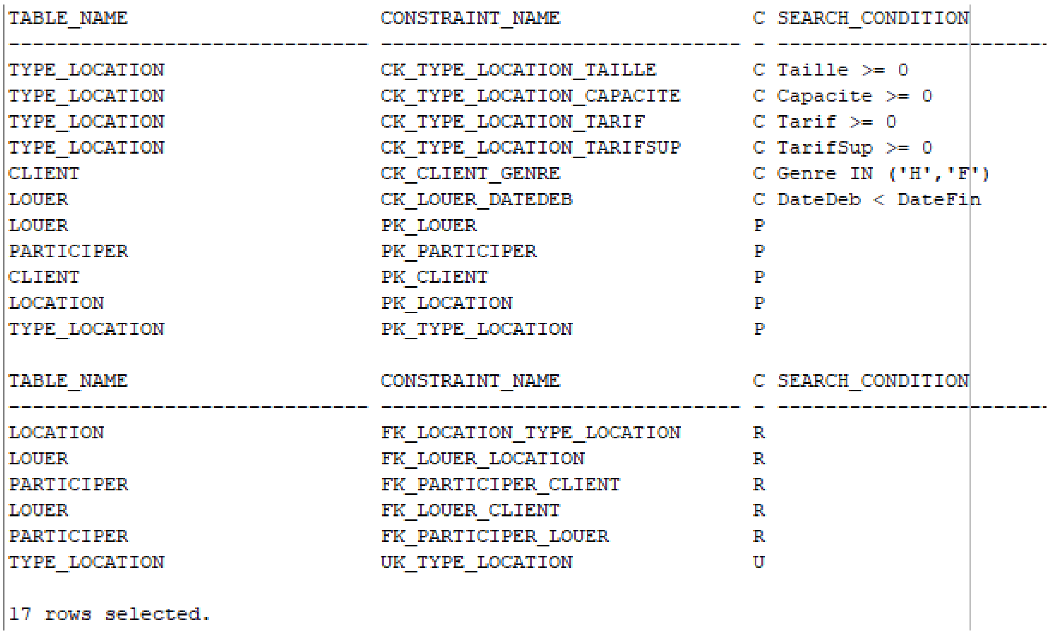
Commande :

select TABLE_NAME, CONSTRAINT_NAME,CONSTRAINT_TYPE, SEARCH_CONDITION

from USER_CONSTRAINTS

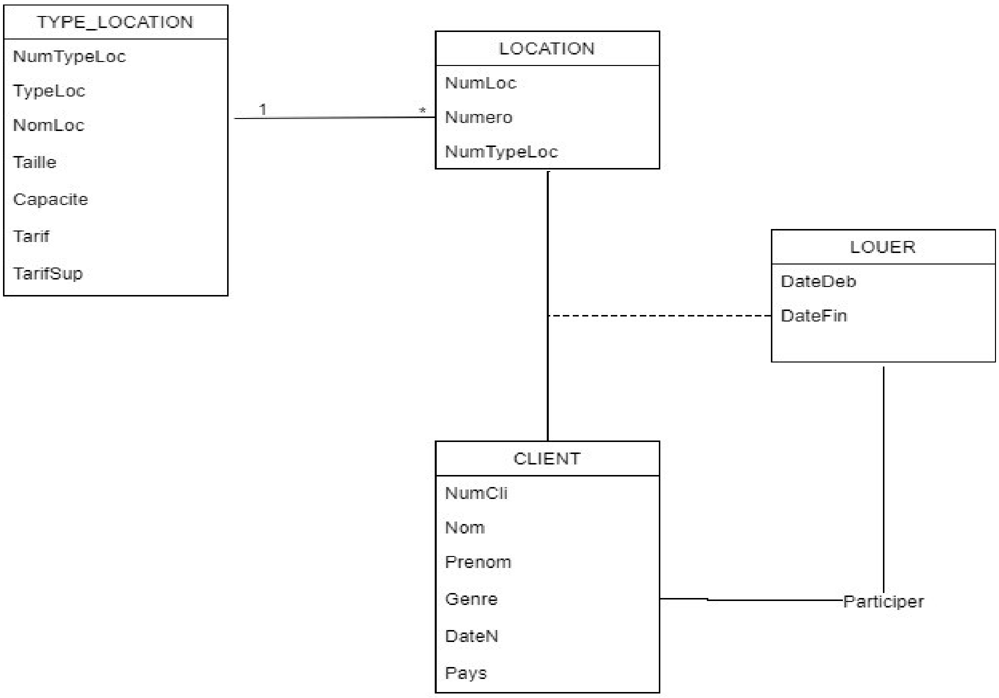
order by CONSTRAINT_TYPE;

Résultat :



```
TABLE_NAME                     CONSTRAINT_NAME                C SEARCH_CONDITION
------------------------------ ------------------------------ - ----------------------
TYPE_LOCATION                  CK_TYPE_LOCATION_TAILLE        C Taille >= 0
TYPE_LOCATION                  CK_TYPE_LOCATION_CAPACITE      C Capacite >= 0
TYPE_LOCATION                  CK_TYPE_LOCATION_TARIF         C Tarif >= 0
TYPE_LOCATION                  CK_TYPE_LOCATION_TARIFSUP      C TarifSup >= 0
CLIENT                         CK_CLIENT_GENRE                C Genre IN ('H','F')
LOUER                          CK_LOUER_DATEDEB               C DateDeb < DateFin
LOUER                          PK_LOUER                       P
PARTICIPER                     PK_PARTICIPER                  P
CLIENT                         PK_CLIENT                      P
LOCATION                       PK_LOCATION                    P
TYPE_LOCATION                  PK_TYPE_LOCATION               P

TABLE_NAME                     CONSTRAINT_NAME                C SEARCH_CONDITION
------------------------------ ------------------------------ - ----------------------
LOCATION                       FK_LOCATION_TYPE_LOCATION      R
LOUER                          FK_LOUER_LOCATION              R
PARTICIPER                     FK_PARTICIPER_CLIENT           R
LOUER                          FK_LOUER_CLIENT                R
PARTICIPER                     FK_PARTICIPER_LOUER            R
TYPE_LOCATION                  UK_TYPE_LOCATION               U

17 rows selected.
```

5)



3. SQL/LDD

1)

Commande :

```
create table CLIENT_FR(
                    NumCli number(5),
                    Nom varchar(30),
                    Prenom varchar(30),
                    Genre char(1),
                    DateN date,
                    CONSTRAINT PK_CLIENT_FR PRIMARY KEY (NumCli));
```

Résultat :

```
Table CLIENT_FR created.
```

2)

Commande :

```
ALTER TABLE CLIENT_FR
ADD CHECK (Genre = 'H' or Genre = 'F');
```

Résultat :

```
Table CLIENT_FR altered.
```

3)

Commande :

```
INSERT INTO CLIENT_FR
select DISTINCT CLIENT.NUMCLI, CLIENT.NOM, CLIENT.PRENOM, CLIENT.GENRE,
CLIENT.DATEN
from LOUER, CLIENT where
                    CLIENT.NUMCLI = LOUER.NUMCLI and PAYS ='FRA';
```

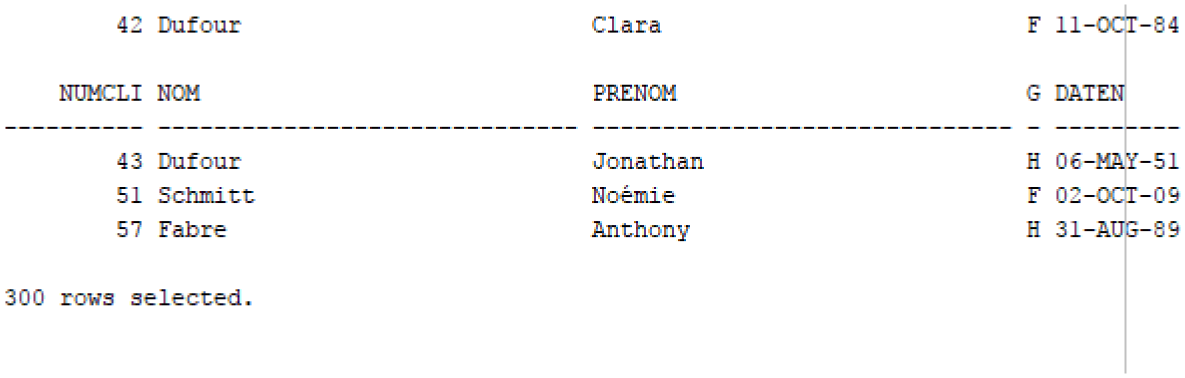
résultat :

```
300 rows inserted.
```

4) Commande :

select * from CLIENT_FR ;

Résultat :



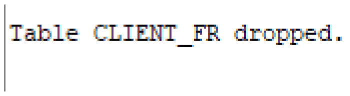
```
        42 Dufour                         Clara                          F 11-OCT-84

    NUMCLI NOM                            PRENOM                         G DATEN
---------- ------------------------------ ------------------------------ - ---------
        43 Dufour                         Jonathan                       H 06-MAY-51
        51 Schmitt                        Noémie                         F 02-OCT-09
        57 Fabre                          Anthony                        H 31-AUG-89

300 rows selected.
```

5)

Commande :

DROP TABLE CLIENT_FR ;

Résultat :



```
Table CLIENT_FR dropped.
```

4. SQL/LMD

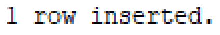
1)

Commande :

INSERT INTO CLIENT (NUMCLI,NOM,PRENOM,GENRE,DATEN,PAYS)

values (2043,'JALADE','SAMUEL','H','04-OCT-98','FRA');

Résultat :



```
1 row inserted.
```

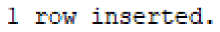
2)

Commande :

INSERT INTO LOUER(NUMCLI,NUMLOC,DATEDEB,DATEFIN)

values (2043,1,'28-OCT-17','4-NOV-17');

Résultat :



```
1 row inserted.
```

3)

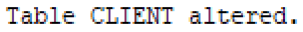
Commande :

ALTER TABLE CLIENT

ADD NBL NUMBER(5)

ADD NBJ NUMBER(5);

Résultat :



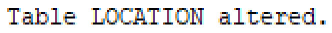
```
Table CLIENT altered.
```

Commande :

ALTER TABLE LOCATION

ADD NBJL NUMBER(5);

Résultat :



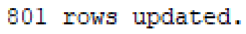
```
Table LOCATION altered.
```

4)

Commande :

UPDATE CLIENT SET NBL=(SELECT COUNT(NUMLOC) FROM LOUER , CLIENT WHERE CLIENT.NUMCLI=LOUER.NUMCLI);

Résultat :

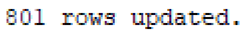


```
801 rows updated.
```

Commande :

```
UPDATE CLIENT
SET NBJ=(
SELECT
 SUM(LOUER.DATEFIN-LOUER.DATEDEB)FROM LOUER
 WHERE LOUER.NUMCLI=CLIENT.NUMCLI);
```

Résultat :

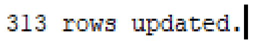


```
801 rows updated.
```

Commande :

```
UPDATE LOCATION
SET NBJL=(
SELECT
 365-SUM(LOUER.DATEFIN-LOUER.DATEDEB)FROM LOUER
 WHERE LOUER.NUMLOC=LOCATION.NUMLOC);
```

Résultat :



```
313 rows updated.
```

Conclusion :

Ce TP nous permet de revoir la création des tables et réviser le langage SQL .