# CRÉATION D'UNE BASE DE DONNÉE

Marie De smedt

### CRÉATION DE LA BASE

CREATE DATABASE agence\_immo CHARACTER SET 'utf8'; USE agence\_immo;

### CRÉATION DES TABLES

```
CREATE TABLE IF NOT EXISTS Commune (
nb habitant INT,
distance_agence SMALLINT,
nom_commune VARCHAR(50) NOT NULL,
cp CHAR(5),
id commune SMALLINT UNSIGNED NOT NULL AUTO_INCREMENT PRIMARY
KEY
ENGINE=InnoDB;
CREATE TABLE IF NOT EXISTS Lover (
id loyer SMALLINT UNSIGNED NOT NULL AUTO INCREMENT PRIMARY KEY,
type Logement VARCHAR(3),
mt_loyer SMALLINT,
frais SMALLINT
ENGINE=InnoDB;
CREATE TABLE IF NOT EXISTS Individu (
id individu SMALLINT UNSIGNED NOT NULL AUTO INCREMENT PRIMARY KEY,
nom VARCHAR(55) NOT NULL,
prenom VARCHAR(55) NOT NULL,
date naissance DATE,
num_tel1 CHAR(10),
num_tel2 CHAR(10)
ENGINE=InnoDB;
```

```
CREATE TABLE IF NOT EXISTS Logement (
superficie SMALLINT,
adresse VARCHAR(255),
id commune SMALLINT UNSIGNED NOT NULL,
id loyer SMALLINT UNSIGNED NOT NULL,
id logement SMALLINT UNSIGNED NOT NULL AUTO INCREMENT
PRIMARY KEY,
CONSTRAINT fk id commune FOREIGN KEY (id commune)
REFERENCES Commune(id commune),
CONSTRAINT fk id loyer FOREIGN KEY (id loyer) REFERENCES
Loyer(id loyer)
ENGINE=InnoDB;
CREATE TABLE IF NOT EXISTS Location (
date debut DATE,
date fin DATE,
id logement SMALLINT UNSIGNED NOT NULL,
id individu SMALLINT UNSIGNED NOT NULL,
id location SMALLINT UNSIGNED NOT NULL AUTO INCREMENT
PRIMARY KEY,
CONSTRAINT fk id logement FOREIGN KEY (id logement)
REFERENCES Logement(id logement),
CONSTRAINT fk id individu FOREIGN KEY (id individu)
REFERENCES Individu(id individu)
ENGINE=InnoDB;
```

# INSÉRER 5 TUPLES DANS LA TABLE <mark>COMMUNE</mark> ET AFFICHER

```
INSERT INTO Commune (nb_habitant, distance_agence, nom_commune,cp) VALUES (10000, 10, 'ville1',59111), (22222, 22, 'ville2',59222), (333,333,'ville3',59003), (4410222,124,'ville4',59444), (55, 5, 'ville5', 59557);
```

```
mysql> SELECT * FROM Commune;
 nb habitant | distance agence | nom commune
                                                      id commune
       10000
                            10 | ville1
                                              59111
       22222
                            22
                                ville2
                                               59222
         333 I
                           333
                                ville3
                                               59003
     4410222
                           124
                                ville4
                                              59444
                             5 | ville5
                                              59557
 rows in set (0.00 sec)
```

UPDATE Commune SET nom\_commune = 'new\_town1' WHERE cp = 59111;

#### DELETE FROM Commune WHERE nb\_habitant<100;

```
mysql> SELECT * FROM Commune;

| nb_habitant | distance_agence | nom_commune | cp | id_commune |

| 10000 | 10 | new_town1 | 59111 | 1 |

| 22222 | 22 | ville2 | 59222 | 2 |

| 333 | 333 | ville3 | 59003 | 3 |

| 4410222 | 124 | ville4 | 59444 | 4 |

4 rows in set (0.00 sec)
```

# INSÉRER 5 TUPLES DANS LA TABLE <mark>LOYER</mark> ET AFFICHER

```
INSERT INTO Loyer (type_Logement, mt_loyer, frais) VALUES ('T1',250,50), ('T2',350,60), ('T3',455,65), ('T4',800,140), ('LOF',1200,200);
```

UPDATE Loyer SET type\_Logement = 'T5' WHERE frais = 200; DELETE FROM Loyer WHERE mt\_loyer <=250;

```
mysql> SELECT * FROM Loyer;

+-----+

| id_loyer | type_Logement | mt_loyer | frais |

+-----+

| 7 | T2 | 350 | 60 |

| 8 | T3 | 455 | 65 |

| 9 | T4 | 800 | 140 |

| 10 | T5 | 1200 | 200 |

+----+

4 rows in set (0.00 sec)
```

# INSÉRER 5 TUPLES DANS LA TABLE <mark>INDIVIDU</mark> ET AFFICHER

INSERT INTO Individu(nom, prenom, date\_naissance, num\_tel1, num\_tel2) VALUES ('dujardin', 'franck', 19580706,'0614251859',null), ('durand', 'jean', 19550602,'0614747578','0321458595'), ('dupont', 'jules',null ,'0606060606',null), ('henry', 'jeanette', 19600607,'0707070707','0320030203'), ('delattre', 'huguette', 19451102,null,null);

```
mysal> SELECT * FROM Individu;
 id individu
               dujardin | franck
                                      1958-07-06
                                                        0614251859
                                                                     NULL
               durand
                           jean
                                      1955-06-02
                                                        0614747578
                                                                     0321458595
               dupont
                           jules
                                      NULL
                                                                     NULL
                                                        0606060606
                                                                     0320030203
               henry
                           ieanette l
                                      1960-06-07
                                                        0707070707
               delattre I
                           huguette
                                    1945-11-02
                                                       NULL
                                                                     NULL
 rows in set (0.00 sec
```

UPDATE Individu SET num\_tel2 = '0320506041' WHERE nom = 'delattre'; DELETE FROM Individu WHERE prenom='jean';

```
mvsal> SELECT * FROM Individu:
 id individu | nom
                                                        num tel1
                           prenom
                                       date naissance |
                                                                      num tel2
           1 | dujardin | franck
                                      1958-07-06
                                                        0614251859
                                                                      NULL
               dupont
                           jules
                                      NULL
                                                        0606060606
                                                                      NULL
               henry
                           ieanette |
                                      1960-06-07
                                                        0707070707
                                                                      0320030203
            5 | delattre | huguette
                                      1945-11-02
                                                        NULL
                                                                      0320506041
 rows in set (0.00 sec)
```

## INSÉRER 5 TUPLES DANS LA TABLE <mark>LOGEMENT</mark> ET AFFICHER

INSERT INTO Logement (superficie, adresse, id\_commune, id\_loyer) VALUES

```
(25, '1rue premiere',1,7),
(45, '2rue premiere',1,8),
(50, null,3,9),
(75, '4rue premiere',3,9),
(150, '5rue premiere',4,10);
```

superficie   adresse	id_commune	id_loyer	id_logement
25   1rue premiere	1	7	11
45   2rue premiere	1	8	12
50   NULL	3	9	13
75   4rue premiere	3	9	14
150   5rue premiere	4	10	15

UPDATE Logement SET adresse = '30 rue solferino' WHERE adresse IS NULL;

DELETE FROM Logement WHERE id\_commune=4;

superficie	adresse	id_commune	id_loyer	id_logement
25	1rue premiere	1 1	7	11
45	2rue premiere	1 1	8	12
50	30 rue solferino	3	9	13
75	4rue premiere	3	9	14

# INSÉRER 5 TUPLES DANS LA TABLE <mark>LOCATION</mark> ET AFFICHER

INSERT INTO Location (date\_debut, date\_fin, id\_logement, id\_individu) VALUES

```
(20200101,20220101,11,1),
(20200222,20230101,12,3),
(20200219,20220101,13,4),
(20190101,20201001,14,4),
(20190101,20221207,14,4);
```

```
mysql> SELECT * FROM Location;

| date_debut | date_fin | id_logement | id_individu | id_location |
| 2020-01-01 | 2022-01-01 | 11 | 1 | 1 |
| 2020-02-22 | 2023-01-01 | 12 | 3 | 2 |
| 2020-02-19 | 2022-01-01 | 13 | 4 | 3 |
| 2019-01-01 | 2020-10-01 | 14 | 4 | 4 |
| 2019-01-01 | 2022-12-07 | 14 | 4 | 5 |

5 rows in set (0.00 sec)
```

UPDATE Location SET id\_logement = 13 WHERE id\_individu = 3; DELETE FROM Location WHERE id\_logement=11;