

CRÉATION D'UNE BASE DE DONNÉE

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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 Loyer (  
  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)  
)
```

```
mysql> SHOW TABLES;  
+-----+  
| Tables_in_agence_immo |  
+-----+  
| Commune                 |  
| Individu                |  
| Location                |  
| Logement                |  
| Loyer                   |  
+-----+  
5 rows in set (0.00 sec)
```

```
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 **COMMUNE** 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 | cp | id_commune |
+-----+-----+-----+-----+-----+
| 10000 | 10 | ville1 | 59111 | 1 |
| 22222 | 22 | ville2 | 59222 | 2 |
| 333 | 333 | ville3 | 59003 | 3 |
| 4410222 | 124 | ville4 | 59444 | 4 |
| 55 | 5 | ville5 | 59557 | 5 |
+-----+-----+-----+-----+-----+
5 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 **LOYER** ET AFFICHER

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

```
mysql> SELECT * FROM Loyer;  
+-----+-----+-----+-----+  
| id_loyer | type_Logement | mt_loyer | frais |  
+-----+-----+-----+-----+  
| 6 | T1 | 250 | 50 |  
| 7 | T2 | 350 | 60 |  
| 8 | T3 | 455 | 65 |  
| 9 | T4 | 800 | 140 |  
| 10 | LOF | 1200 | 200 |  
+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

```
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 INDIVIDU 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);
```

```
mysql> SELECT * FROM Individu;
```

id_individu	nom	prenom	date_naissance	num_tel1	num_tel2
1	dujardin	franck	1958-07-06	0614251859	NULL
2	durand	jean	1955-06-02	0614747578	0321458595
3	dupont	jules	NULL	0606060606	NULL
4	henry	jeanette	1960-06-07	0707070707	0320030203
5	delattre	huguette	1945-11-02	NULL	NULL

5 rows in set (0.00 sec)

```
UPDATE Individu SET num_tel2 = '0320506041' WHERE nom = 'delattre';
```

```
DELETE FROM Individu WHERE prenom='jean';
```

```
mysql> SELECT * FROM Individu;
```

id_individu	nom	prenom	date_naissance	num_tel1	num_tel2
1	dujardin	franck	1958-07-06	0614251859	NULL
3	dupont	jules	NULL	0606060606	NULL
4	henry	jeanette	1960-06-07	0707070707	0320030203
5	delattre	huguette	1945-11-02	NULL	0320506041

4 rows in set (0.00 sec)

INSÉRER 5 TUPLES DANS LA TABLE LOGEMENT 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);

```
mysql> SELECT * FROM Logement;
```

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

5 rows in set (0.00 sec)

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

DELETE FROM Logement WHERE id_commune=4;

```
mysql> SELECT * FROM Logement;
```

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

4 rows in set (0.00 sec)

INSÉRER 5 TUPLES DANS LA TABLE LOCATION 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;

```
mysql> SELECT * FROM Location;
```

date_debut	date_fin	id_logement	id_individu	id_location
2020-02-22	2023-01-01	13	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

4 rows in set (0.00 sec)