

Base SQL

Changement du mapping du clavier

```
1 | $ setxkbmap -layout <countrycode>
```

Creation du password root

```
1 | SET PASSWORD FOR 'root'@'localhost' = PASSWORD('p@ssw0rd');
```

Connection

```
1 | $> mysql -u user -pp@ssw0rd;
```

Creation d'une base de données

```
1 | mysql> CREATE DATABASE menagerie;
```

Vérification de la création

```
1 | mysql> SHOW DATABASES;
```

Creation d'un utilisateur

```
1 | CREATE USER 'jeffrey'@'localhost' IDENTIFIED BY 'password';
```

Création de droits sur l'utilisateur sur la base de données créée

```
1 | GRANT ALL ON menagerie.* TO 'jeffrey'@'localhost';
```

Quitter MySQL

```
1 | mysql> QUIT  
2 | Bye
```

Se reconnecter avec le user créé précédemment

```
1 | $> mysql -h host -u user -p menagerie  
2 | Enter password: *****
```

ou

Attention pas d'espace entre le `-p` et le `password`

```
1 | $> mysql -h host -u user -pP@ssw0rd menagerie
```

```
1 | mysql> USE menagerie  
2 | Database changed
```

```
1 | mysql> CREATE TABLE pet (name VARCHAR(20), owner VARCHAR(20),  
2 |           species VARCHAR(20), sex CHAR(1), birth DATE, death DATE);
```

```
1 | mysql> SHOW TABLES;  
2 | +-----+  
3 | Tables in menagerie |  
4 | +-----+  
5 | pet |  
6 | +-----+
```

```
1 | mysql> DESCRIBE pet;  
2 | +-----+-----+-----+-----+-----+  
3 | Field   | Type      | Null | Key | Default | Extra |  
4 | +-----+-----+-----+-----+-----+  
5 | name    | varchar(20) | YES  |     | NULL    |       |  
6 | owner   | varchar(20) | YES  |     | NULL    |       |  
7 | species | varchar(20) | YES  |     | NULL    |       |  
8 | sex     | char(1)    | YES  |     | NULL    |       |  
9 | birth   | date      | YES  |     | NULL    |       |  
10 | death   | date      | YES  |     | NULL    |       |  
11 | +-----+-----+-----+-----+-----+
```

Créer le fichier de data

name	owner	species	sex	birth.	death.
Fluffy	Harold	cat	f	1993-02-04	
Claws	Gwen	cat	m	1994-03-17	
Buffy	Harold	dog	f	1989-05-13	
Fang	Benny	dog	m	1990-08-27	
Bowser	Diane	dog	m	1979-08-31	1995-07-29
Chirpy	Gwen	bird	f	1998-09-11	
Whistler	Gwen	bird		1997-12-09	
Slim	Benny	snake	m	1996-04-29	

Créer un fichier `pet.txt` contenant les data a charger dans la base. Créer une ligne pour chaque ligne du tableau ci-dessus. Chaque champ est séparé par une tabulation. Les données manquantes sont remplacées par un `\N` comme ci-dessous :

```
1 | Whistler      Gwen      bird      \N  1997-12-09  \N
```

Charger les données dans la base.

```
1 | mysql> LOAD DATA LOCAL INFILE '/path/pet.txt' INTO TABLE pet;
```

Vous pouvez préciser le type du saut de ligne

```
1 | mysql> LOAD DATA LOCAL INFILE '/path/pet.txt' INTO TABLE pet
2 |   LINES TERMINATED BY '\r\n';
```

Création d'enregistrement par `INSERT`

```
1 | mysql> INSERT INTO pet
2 |   VALUES ('Puffball', 'Diane', 'hamster', 'f', '1999-03-30', NULL);
```

Creation d'une seconde table

```

1 | mysql> CREATE TABLE event (name VARCHAR(20), date DATE,
2 |           type VARCHAR(15), remark VARCHAR(255));

```

name	date	type	remark
Fluffy	1995-05-15	litter	4 kittens, 3 female, 1 male
Buffy	1993-06-23	litter	5 puppies, 2 female, 3 male
Buffy	1994-06-19	litter	3 puppies, 3 female
Chirpy	1999-03-21	vet	needed beak straightened
Slim	1997-08-03	vet	broken rib
Bowser	1991-10-12	kennel	
Fang	1991-10-12	kennel	
Fang	1998-08-28	birthday	Gave him a new chew toy
Claws	1998-03-17	birthday	Gave him a new flea collar
Whistler	1998-12-09	birthday	First birthday

```

1 | mysql> LOAD DATA LOCAL INFILE 'event.txt' INTO TABLE event;

```

Creation d'une jointure sur les deux tables

```

1 | mysql> SELECT pet.name,
2 |           TIMESTAMPDIFF(YEAR,birth,date) AS age,
3 |           remark
4 |           FROM pet INNER JOIN event
5 |             ON pet.name = event.name
6 |             WHERE event.type = 'litter';
7 | +-----+-----+-----+
8 | name   | age   | remark
9 | +-----+-----+-----+
10 | Fluffy |    2 | 4 kittens, 3 female, 1 male |
11 | Buffy  |    4 | 5 puppies, 2 female, 3 male |
12 | Buffy  |    5 | 3 puppies, 3 female
13 | +-----+-----+-----+

```