

Jour 1 : SQL - MySQL

Job 01

Installer MySQL sans interface graphique
suivre le tuto:

[Installez le SGBD MySQL - Implémentez vos bases de données relationnelles avec SQL - OpenClassrooms](#)

```
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 8.0.32 MySQL Community Server - GPL

Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

Job 02

```
mysql> create database LaPlateforme;
Query OK, 1 row affected (0.01 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| laplateforme |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.00 sec)
```

Job 03

```
mysql> create table etudiants
-> (id int primary key not null auto_increment,
-> nom varchar(255) not null,
-> prenom varchar(255) not null,
-> age int not null,
-> email varchar(255) not null);
Query OK, 0 rows affected (0.02 sec)
```

Job 04

```
mysql> show tables;
+-----+
| Tables_in_laplateforme |
+-----+
| etudiants                |
+-----+
1 row in set (0.00 sec)

mysql> show columns from etudiants;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id    | int           | NO   | PRI | NULL    | auto_increment |
| nom   | varchar(255) | NO   |     | NULL    |                |
| prenom | varchar(255) | NO   |     | NULL    |                |
| age   | int           | NO   |     | NULL    |                |
| email | varchar(255) | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Job 05

```
mysql> insert into etudiants (nom, prenom, age, email)
-> values
-> ("Spaghetti", "Betty", 23, "betty.Spaghetti@laplateforme.io"),
-> ("Steak", "Chuck", 45, "chuck.steak@laplateforme.io"),
-> ("Doe", "John", 18, "john.doe@laplateforme.io"),
-> ("Barnes", "Binkie", 16, "binkie.barnes@laplateforme.io"),
-> ("Dupuis", "Gertrude", 20, "gertrude.dupuis@laplateforme.io");
Query OK, 5 rows affected (0.02 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

Job 06

```
mysql> select * from etudiants
-> ;
```

| id | nom | prenom | age | email |
|----|-----------|----------|-----|---------------------------------|
| 1 | Spaghetti | Betty | 23 | betty.Spaghetti@laplateforme.io |
| 2 | Steak | Chuck | 45 | chuck.steak@laplateforme.io |
| 3 | Doe | John | 18 | john.doe@laplateforme.io |
| 4 | Barnes | Binkie | 16 | binkie.barnes@laplateforme.io |
| 5 | Dupuis | Gertrude | 20 | gertrude.dupuis@laplateforme.io |

```
5 rows in set (0.00 sec)
```

Job 07

```
PS C:\Users\rouis> mysqldump -u root -p laplateforme > C:/Users/rouis/OneDrive/Bureau/Bachelor_IT/Python/MySQL/laplateforme.sql
Enter password: *****
PS C:\Users\rouis>
```

Job 08

```
mysql> select * from etudiants where age < 18
-> ;
```

| id | nom | prenom | age | email |
|----|--------|--------|-----|-------------------------------|
| 4 | Barnes | Binkie | 16 | binkie.barnes@laplateforme.io |

```
1 row in set (0.00 sec)
```

```
C:\Users\rouis>mysql -e "select * from etudiants where age < 18" -u root -p laplateforme >
C:\Users\rouis\OneDrive\Bureau\Bachelor_IT\Python\MySQL\job08.sql
Enter password: *****
```

Job 09

```
mysql> select * from etudiants order by age asc;
+----+-----+-----+-----+-----+
| id | nom      | prenom | age | email                                     |
+----+-----+-----+-----+-----+
| 4  | Barnes   | Binkie | 16  | binkie.barnes@laplateforme.io          |
| 3  | Doe      | John   | 18  | john.doe@laplateforme.io               |
| 5  | Dupuis   | Gertrude | 20  | gertrude.dupuis@laplateforme.io        |
| 1  | Spaghetti | Betty  | 23  | betty.Spaghetti@laplateforme.io        |
| 2  | Steak    | Chuck  | 45  | chuck.steak@laplateforme.io            |
+----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Job 10

```
mysql> select * from etudiants order by age desc;
+----+-----+-----+-----+-----+
| id | nom      | prenom | age | email                                     |
+----+-----+-----+-----+-----+
| 2  | Steak    | Chuck  | 45  | chuck.steak@laplateforme.io            |
| 1  | Spaghetti | Betty  | 23  | betty.Spaghetti@laplateforme.io        |
| 5  | Dupuis   | Gertrude | 20  | gertrude.dupuis@laplateforme.io        |
| 3  | Doe      | John   | 18  | john.doe@laplateforme.io               |
| 4  | Barnes   | Binkie | 16  | binkie.barnes@laplateforme.io          |
+----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Job 11

```
mysql> select * from etudiants where prenom = "Gertrude" and nom = "Dupuis";
+----+-----+-----+-----+-----+
| id | nom      | prenom | age | email                                     |
+----+-----+-----+-----+-----+
| 5  | Dupuis   | Gertrude | 20  | gertrude.dupuis@laplateforme.io        |
+----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Job 12

```
mysql> insert into etudiants (nom, prenom, age, email)
-> values
-> ("Dupuis", "Martin", 18, "martin.dupuis@laplateforme.io");
Query OK, 1 row affected (0.01 sec)

mysql> select * from etudiants;
+----+-----+-----+-----+-----+
| id | nom      | prenom | age | email                                     |
+----+-----+-----+-----+-----+
| 1  | Spaghetti | Betty  | 23  | betty.Spaghetti@laplateforme.io         |
| 2  | Steak     | Chuck  | 45  | chuck.steak@laplateforme.io             |
| 3  | Doe       | John   | 18  | john.doe@laplateforme.io                |
| 4  | Barnes    | Binkie | 16  | binkie.barnes@laplateforme.io           |
| 5  | Dupuis    | Gertrude | 20  | gertrude.dupuis@laplateforme.io         |
| 6  | Dupuis    | Martin | 18  | martin.dupuis@laplateforme.io           |
+----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

Job 13

```
mysql> select * from etudiants where age between 18 and 25;
+----+-----+-----+-----+-----+
| id | nom      | prenom | age | email                                     |
+----+-----+-----+-----+-----+
| 1  | Spaghetti | Betty  | 23  | betty.Spaghetti@laplateforme.io         |
| 3  | Doe       | John   | 18  | john.doe@laplateforme.io                |
| 5  | Dupuis    | Gertrude | 20  | gertrude.dupuis@laplateforme.io         |
| 6  | Dupuis    | Martin | 18  | martin.dupuis@laplateforme.io           |
+----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Job 14

```
mysql> select * from etudiants where age between 18 and 25 order by age asc;
+----+-----+-----+-----+-----+
| id | nom      | prenom | age | email                                     |
+----+-----+-----+-----+-----+
| 3  | Doe       | John   | 18  | john.doe@laplateforme.io                |
| 6  | Dupuis    | Martin | 18  | martin.dupuis@laplateforme.io           |
| 5  | Dupuis    | Gertrude | 20  | gertrude.dupuis@laplateforme.io         |
| 1  | Spaghetti | Betty  | 23  | betty.Spaghetti@laplateforme.io         |
+----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Job 15

```
mysql> select * from etudiants order by nom;
+----+-----+-----+-----+-----+
| id | nom      | prenom | age | email                                     |
+----+-----+-----+-----+-----+
| 4  | Barnes   | Binkie | 16  | binkie.barnes@laplateforme.io          |
| 3  | Doe      | John   | 18  | john.doe@laplateforme.io               |
| 5  | Dupuis   | Gertrude | 20  | gertrude.dupuis@laplateforme.io        |
| 6  | Dupuis   | Martin | 18  | martin.dupuis@laplateforme.io          |
| 1  | Spaghetti | Betty  | 23  | betty.Spaghetti@laplateforme.io        |
| 2  | Steak    | Chuck  | 45  | chuck.steak@laplateforme.io            |
+----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

Job 16

```
mysql> select * from etudiants where nom like "b%";
+----+-----+-----+-----+-----+
| id | nom      | prenom | age | email                                     |
+----+-----+-----+-----+-----+
| 4  | Barnes   | Binkie | 16  | binkie.barnes@laplateforme.io          |
+----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Job 17

```
mysql> update etudiants
-> set age = 20
-> where nom = "Spaghetti" and prenom = "Betty"
-> ;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from etudiants;
+----+-----+-----+-----+-----+
| id | nom      | prenom | age | email                                     |
+----+-----+-----+-----+-----+
| 1  | Spaghetti | Betty  | 20  | betty.Spaghetti@laplateforme.io        |
| 2  | Steak    | Chuck  | 45  | chuck.steak@laplateforme.io            |
| 3  | Doe      | John   | 18  | john.doe@laplateforme.io               |
| 4  | Barnes   | Binkie | 16  | binkie.barnes@laplateforme.io          |
| 5  | Dupuis   | Gertrude | 20  | gertrude.dupuis@laplateforme.io        |
| 6  | Dupuis   | Martin | 18  | martin.dupuis@laplateforme.io          |
+----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

Job 18

```
mysql> delete from etudiants where nom = "Doe" and prenom = "John";
Query OK, 1 row affected (0.00 sec)

mysql> select * from etudiants;
+----+-----+-----+-----+-----+
| id | nom      | prenom | age | email                                     |
+----+-----+-----+-----+-----+
| 1  | Spaghetti | Betty  | 20  | betty.Spaghetti@laplateforme.io        |
| 2  | Steak     | Chuck  | 45  | chuck.steak@laplateforme.io            |
| 4  | Barnes    | Binkie | 16  | binkie.barnes@laplateforme.io          |
| 5  | Dupuis    | Gertrude | 20  | gertrude.dupuis@laplateforme.io        |
| 6  | Dupuis    | Martin | 18  | martin.dupuis@laplateforme.io          |
+----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

Job 19

```
mysql> select count(*) from etudiants;
+-----+
| count(*) |
+-----+
|          5 |
+-----+
1 row in set (0.00 sec)
```

Job 20

```
mysql> select count(*) from etudiants where age < 18;
+-----+
| count(*) |
+-----+
|          1 |
+-----+
1 row in set (0.00 sec)
```

Job 21

```
mysql> select count(*) from etudiants where age between 18 and 25;
+-----+
| count(*) |
+-----+
|        3 |
+-----+
1 row in set (0.00 sec)
```

Job 22

```
mysql> select * from etudiants where age = (select min(age) from etudiants);
+-----+-----+-----+-----+-----+
| id | nom   | prenom | age | email                                     |
+-----+-----+-----+-----+-----+
|  4 | Barnes | Binkie | 16 | binkie.barnes@laplateforme.io |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Job 23

```
mysql> select * from etudiants where age = (select max(age) from etudiants);
+-----+-----+-----+-----+-----+
| id | nom   | prenom | age | email                                     |
+-----+-----+-----+-----+-----+
|  2 | Steak | Chuck  | 45 | chuck.steak@laplateforme.io |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Job 24

```
mysql> select avg(age) from etudiants;
+-----+
| avg(age) |
+-----+
| 23.8000 |
+-----+
1 row in set (0.00 sec)
```