# Data Base MySQL



African Instituite of Mathematical Science

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Data Base MySQL

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What is Data Base

What is DBMS?

What is MySQL

What is PhpMvAdmin

Example of modelisation

for MySQL

#### Outline

What is Data Base?

What is DBMS?

What is MySQL?

What is PhpMyAdmin?

Example of modelisation

Some commandes for MySQL

Pratice

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Some commandes for MvSQL

Protice

#### Data Base

- A database is an organized collection of structured information, or data, typically stored electronically in a computer system.
- A database is usually controlled by a database management system (DBMS)

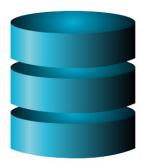


Figure: Data Base

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# **DBMS**

A database management system (DBMS) is a software package designed to define, manipulate, retrieve and manage data in a database.

RDBMS stands for Relational Database Management System.

RDBMS is the basis for SQL, and for all modern database systems such as :

- MySQL
- PostGres
- Oracle
- SQL Server
- Microsoft Access
- **•** ...

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# **MySQL**

MySQL is a relational database management system. It is distributed under a dual GPL license and owns.



Figure: Logo MySQL: https://www.mysql.com

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# MySQL Install MySQL

We have many way to install MySQL. We can download MySQL from the official website for our OS.

OS: Windows WAMP

OS: Linux sudo apt install mysql-server

OS: MacOS MAMP

We can download XAMPP (Apache + MariaDB + PHP + Perl)

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# **PhpMyAdmin**

- Graphical client of MySQI Server
- Manage MySQL Data Base

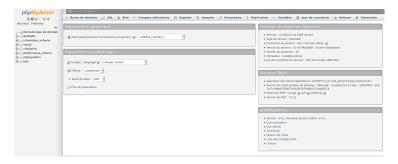


Figure: PhpMyAdmin: https://www.phpmyadmin.net/

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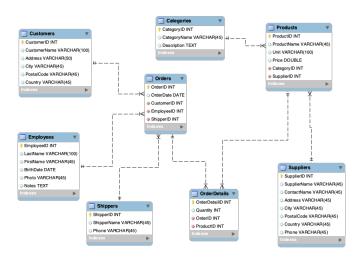


Figure: Data base on w3schools

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Some commandes for MySQL

# Some commandes

```
mysql -u "user" -p "password" ;
```

- show databases ;
- use "database name" ;
- show tables ;
- create database "database name";
- **...** ;

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#### **Pratice**

```
aimssn@as
Fichier Édition Affichage Rechercher Terminal Aide
aimssn@asn-HP-AllinOne:/home/students/Téléchargements$ /opt/lampp/bin/mysgl -u root
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 577
Server version: 10.4.8-MariaDB Source distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> use big data :
ERROR 1049 (42000): Unknown database 'big data'
MariaDB [(none)]> use test ;
Database changed
MariaDB [test]> USE test :
Database changed
MariaDB [test] > SHOW DATABASES :
 Database
 BIGDATA
 information schema
 mantisbt
 mysql
 northwind
 performance schema
 phomyadmin
8 rows in set (0.001 sec)
MariaDB [test]> show tables ;
Empty set (0.001 sec)
MariaDB [test]>
```

Figure: Pratice, practice and practice

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### End

Thanks for your attention!

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# End

Questions or Suggestions?

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