

## Data Base MySQL



**African Institute of Mathematical Science**

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# 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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# 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)

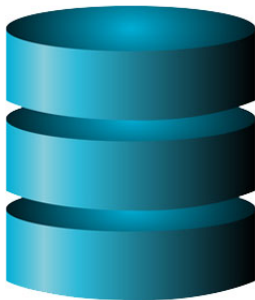


Figure: Data Base

# 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 MySQL Server
- ▶ Manage MySQL Data Base

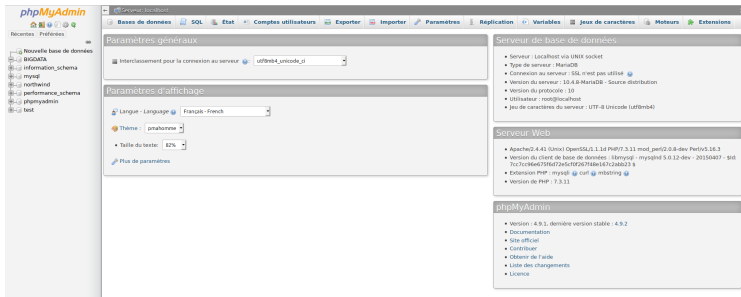


Figure: PhpMyAdmin : <https://www.phpmyadmin.net/>

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# Example of modelisation

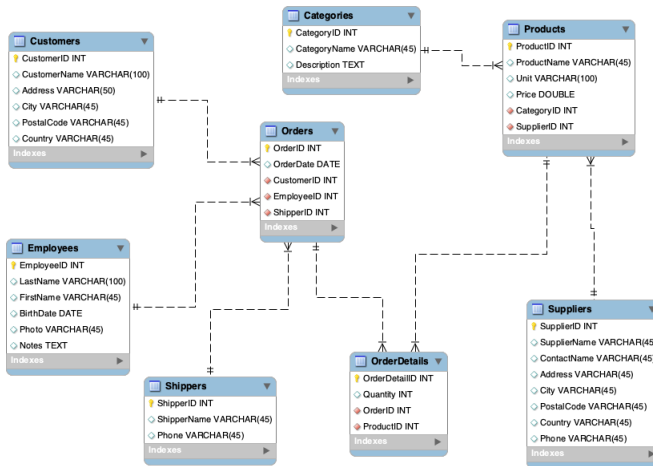


Figure: Data base on w3schools

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# Some commandes

- ▶ `mysql -u "user" -p "password" ;`
- ▶ `show databases ;`
- ▶ `use "database name" ;`
- ▶ `show tables ;`
- ▶ `create database "database name" ;`
- ▶ `... ;`

# Pratice

```
almssn@as  
Fichier Édition Affichage Rechercher Terminal Aide  
almssn@asn-HP-AllinOne:/home/students/Téléchargements$ /opt/lampp/bin/mysql -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 |  
| phpmyadmin|  
| test     |  
+-----+  
8 rows in set (0.001 sec)  
  
MariaDB [test]> show tables ;  
Empty set (0.001 sec)  
  
MariaDB [test]> █
```

Figure: Pratrice, practice and practice

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# End

Thanks for your attention !

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## Questions or Suggestions ?

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