

SGBD(R)

Système de  
Gestion  
Base de  
Données  
Relationnelle

**SGBDR**

Data  
Base  
Managment  
System

**DBMS**

## ▶ **Microsoft**

- SQL Server
- Access

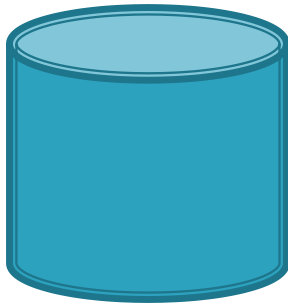
## ▶ **Oracle**

- Oracle Database Server
- MySQL

## ▶ **Communauté**

- PostgreSQL
  - MariaDB (fork de MySQL)
  - SQLite
- 

Bases de données



Vues

Tables



Enregistrements

27	John	Doe
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Procédures stockées

Contraintes

# Création d'une base de données

```
create database bibliotheque;
```



Création de la base de données bibliotheque.

The diagram consists of two blue rectangular boxes with double borders. The first box is connected to the word 'bibliotheque' in the SQL command above by a double-lined arrow. The second box is connected to the word 'bibliotheque' in the SQL command below by a double-lined arrow. The bottom-left corner of the slide features a decorative blue and black geometric pattern.

```
use bibliotheque;
```

La base bibliothèque devient la base courante

CREATE

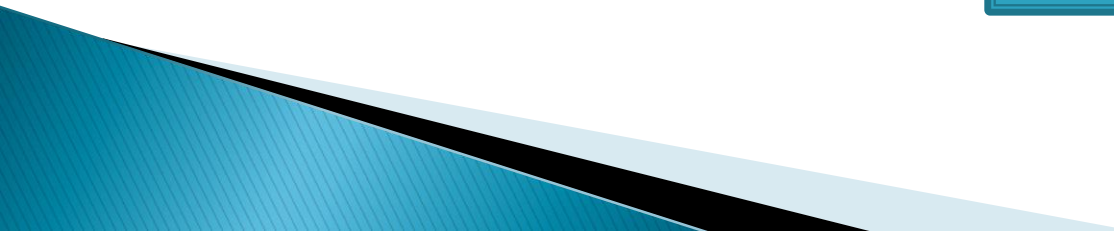
DROP

ALTER

Création

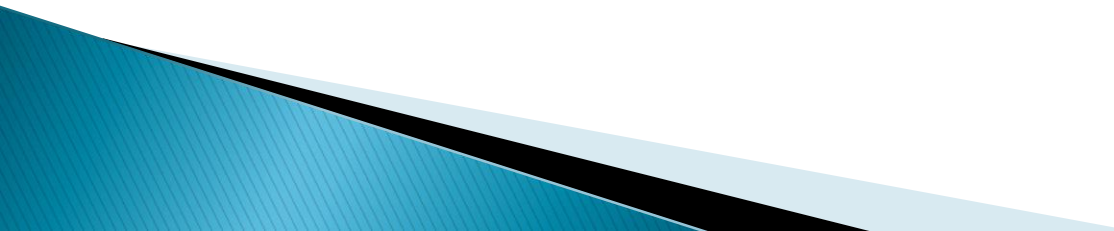
Suppression

Modification



# Création d'une table

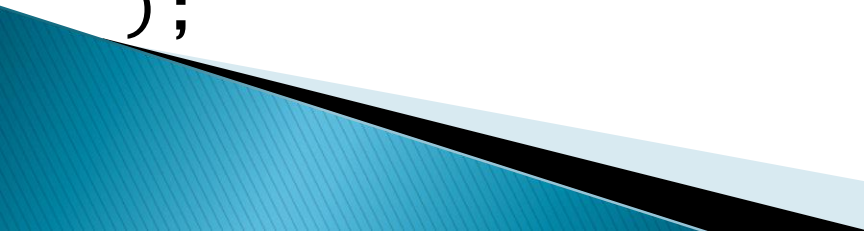
```
create table client (  
    cli_nom          varchar(50),  
    cli_prenom       varchar(50),  
    cli_adresse      varchar(50)  
);
```



# Clés primaires

```
create table client (  
    cli_nom          varchar(50) PRIMARY KEY,  
    cli_prenom       varchar(50),  
    cli_adresse      varchar(50)  
);
```

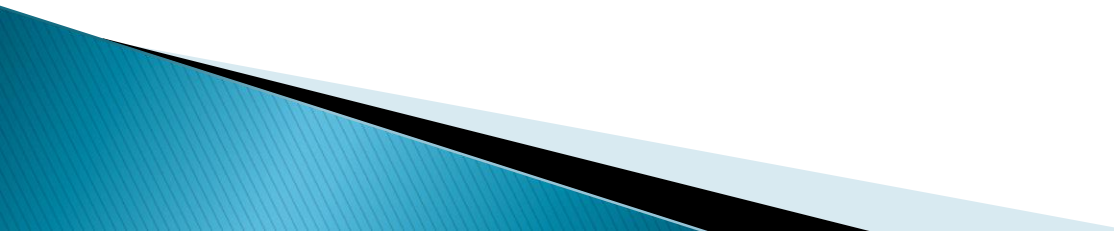
```
create table client (  
    cli_nom          varchar(50),  
    cli_prenom       varchar(50),  
    cli_adresse      varchar(50),  
    PRIMARY KEY (cli_nom, cli_prenom)  
);
```





# Clé primaire automatique

```
create table client (  
    cli_id          int AUTO_INCREMENT NOT NULL,  
    cli_nom         varchar(50),  
    cli_prenom     varchar(50),  
    cli_adresse    varchar(50),  
    PRIMARY KEY (cli_id)  
);
```



# Clés étrangères

```
create table client (  
    cli_id          int AUTO_INCREMENT NOT NULL,  
    cli_nom         varchar(50),  
    cli_prenom     varchar(50),  
    PRIMARY KEY (cli_id)  
);  
  
create table commande(  
    com_num        int AUTO_INCREMENT NOT NULL,  
    com_date       datetime,  
    cli_id         int,  
    PRIMARY KEY (com_num),  
    FOREIGN KEY (cli_id) REFERENCES client(cli_id)  
);
```

