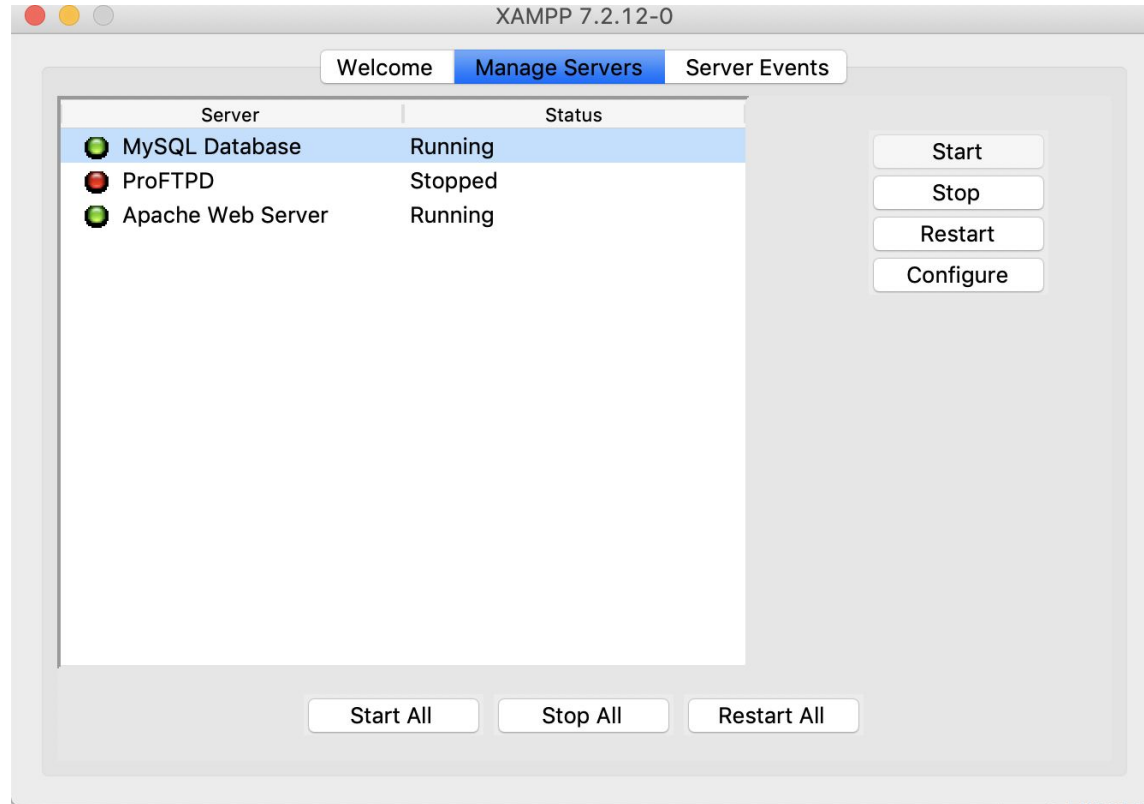


A Recap : ITWS 2110

# The Basics



```
satejsawant — -bash
Last login: Thu Nov 29 19:45:27 on console
[folsom-wl-311:~ satejsawant$ vi /etc/hosts
```

```
satejsawant — vi /etc/hosts — 80x24
##
# Host Database
#
# localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
##
127.0.0.1        localhost
255.255.255.255 broadcasthost
::1             localhost
127.0.0.1        recap.websys
```

## ⚙ httpd-vhosts.conf ✕

```
1  
2 <VirtualHost recap.websys:80>  
3     DocumentRoot "/Users/satejsawant/Sites/websys/recap"  
4     ServerName recap.websys  
5     <Directory "/Users/satejsawant/Sites/websys/recap">  
6         Require All Granted  
7         Options +Indexes  
8     </Directory>  
9 </VirtualHost>
```

phpMyAdmin

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Server: localhost

Databases

SQL

Status

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Variables

Charsets

More

General settings

Server connection collation: utf8mb4\_unicode\_ci

Appearance settings

Language: English

Theme: pmahomme

Font size: 82%

More settings

Database server

- Server: Localhost via UNIX socket
- Server type: MariaDB
- Server connection: SSL is not being used
- Server version: 10.1.37-MariaDB - Source distribution
- Protocol version: 10
- User: root@localhost
- Server charset: UTF-8 Unicode (utf8)

Web server

- Apache/2.4.37 (Unix) OpenSSL/1.0.2p PHP/7.2.12 mod\_perl/2.0.8-dev Perl/v5.16.3
- Database client version: libmysql - mysqlnd 5.0.12-dev - 20150407 - \$Id: 38fea24f2847fa7519001be390c98ae0acafe387 \$
- PHP extension: mysql curl mbstring
- PHP version: 7.2.12

phpMyAdmin

- Version information: 4.8.3 (up to date)
- [Documentation](#)
- [Official Homepage](#)
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Console

# PHP Data Objects

- Supports interfacing with multiple databases unlike mysqli
- Support for working with PHP Objects(setFetchMode)
- Is the “standard”

Establishing a connection



```
<?php
```

```
$host = '127.0.0.1';
```

```
$database = 'restaurant';
```

```
$user = 'root';
```

```
$password = '';
```

```
$charset = 'utf8mb4';
```

```
$dsn = "mysql:host=$host;port=3307;dbname=$database;charset=$charset";
```

```
try{
```

```
    $connection = new PDO($dsn, $user,$password);
```

```
    if($connection)
```

```
        echo "Connected";
```

```
}catch(\PDOException $e){
```

```
    echo 'ERROR: ' . $e->getMessage();
```

```
}
```

```
?>
```

Creating a table

```
$menu = "CREATE TABLE MENU(  
    ID INT(11) AUTO_INCREMENT PRIMARY KEY,  
    Name VARCHAR(50) NOT NULL,  
    Price INT(10) NOT NULL  
);";
```

```
$connection -> exec($menu);
```

Creating a table with a foreign key

```
$orders = "CREATE TABLE ORDERS(  
    ID INT(11) AUTO_INCREMENT PRIMARY KEY,  
    MENUITEM INT(11),  
    FOREIGN KEY (MENUITEM)  
        REFERENCES MENU(ID)  
    ON DELETE CASCADE  
)";
```

```
$connection -> exec($orders);
```

Inserting into a table

Notice the difference in

` and `

```
$addItem = "INSERT INTO `MENU` (`Name`,`Price`) VALUES('Pasta','4')";
```

```
$connection -> exec($addItem);
```

```
$addItem = "INSERT INTO `ORDERS` (`MENUITEM`) VALUES('2')";
```

```
$connection -> exec($addItem);
```

# Using prepare

- Supports parameters to be added to the SQL statement
- Helps prevent SQL Injection
- Optimizes performance for statements to be run multiple times with different parameters



```
$id = 1;  
$stmt = $connection->prepare('SELECT * FROM MENU WHERE ID = :ID');  
$stmt->execute(['ID' => $id]);  
$user = $stmt->fetch();
```

Use `exec()` when you don't expect a response, `query()` when you do