

# MySQL and PHP

Hardcore backend

**ITI-F20**

SDU Robotics  
The Maersk Mc-Kinney Moller Institute  
University of Southern Denmark

# Agenda



- ▶ Structure
- ▶ Syntax
- ▶ PDO

# Structure

Database or Schema, who knows?



# MySQL Syntax

EVERYTHINGS IS IN CAPS!



```
1 DROP DATABASE IF EXISTS dbName;
2 CREATE DATABASE dbName;
3 USE dbName;
4
5 CREATE TABLE user (
6     user_id INT UNSIGNED PRIMARY KEY AUTO_INCREMENT,
7     username VARCHAR(100) NOT NULL,
8     password VARCHAR(100) NOT NULL
9 );
```

# MySQL Syntax

EVERYTHINGS IS IN CAPS!



```
1 DROP DATABASE IF EXISTS dbName;
2 CREATE DATABASE dbName;
3 USE dbName;
4
5 CREATE TABLE user (
6     user_id INT UNSIGNED PRIMARY KEY AUTO_INCREMENT,
7     username VARCHAR(100) NOT NULL,
8     password VARCHAR(100) NOT NULL
9 );
```

```
1 SELECT username FROM user WHERE user_id=1;
```

# PDO

One statement to rule them all



```
1  <?php
2  try {
3      require 'config.php';
4      $conn = new PDO(
5          "mysql:host=$servername;dbname=$dbname",
6          $username,
7          $password,
8          array(PDO::ATTR_ERRMODE => PDO::ERRMODE_EXCEPTION)
9      );
10 } catch (PDOException $e) {
11     echo "Error: " . $e->getMessage();
12 }
```

# PDO

One statement to rule them all



```
1  <?php
2  $stmt = $conn->prepare("SELECT * FROM user WHERE username = :username");
3  $stmt->bindParam(':username', $sane_user);
4  $stmt->execute();
5  $result = $stmt->fetchAll();
```