PHP MYSQL

BEFORE WE GET STARTED

Make sure you done all of PHP Advance & MySQL exercise at

https://github.com/namnh06/aptech-php-course

Have some knowledge about Database.

DATABASE CONNECT/CREATE/DROP

- Connecting to the database from PHP can use MySQLi extension or PDO (PHP Data Objects).

- Make sure you have admin privilege before dropping any database

- Can use TRUNCATE alter DROP, it's deleted the data, not whole database, it's safer than DROP.

- Remember, open it, have to close it.

```php
<?php
$serverName = "localhost";
$userName = "root";
$password = "123456";

$conn = mysqli_connect($serverName, $userName, $password);

if (!$conn) {
    die("Connection failed : " . mysqli_connect_error());
}

echo "Connected successfully<br>";

$sql = "CREATE DATABASE namnh_news";
if ($conn->query($sql) === true) {
    echo "Database created successfully<br>";
} else {
    echo "Error creating database : " . $conn->error . "<br>";
}

$sql = "DROP DATABASE namnh_news";
if ($conn->query($sql) === true) {
    echo "Database dropped successfully<br>";
} else {
    echo "Error dropping database : " . $conn->error . "<br>";
}

$conn->close();
```

TABLE CREATE/DROP/MODIFIED

- Can use TRUNCATE alter DROP.

- Do not forget the data types when create table, it's very important.

- Using ALTER TABLE to Modified column, name or data type of table.

```php
1   <?php
2   require './helper.php';
3   $conn = connectDatabase();
4
5   $sql = "CREATE TABLE namnh_news.nnUser (
6   uId int NOT NULL AUTO_INCREMENT PRIMARY KEY,
7   uLastName varchar(255),
8   uFirstName varchar(255),
9   uEmail varchar(255) NOT NULL UNIQUE,
10  uRole int NOT NULL DEFAULT 2,
11  uState int NOT NULL DEFAULT 1,
12  uCreatedDate datetime NOT NULL DEFAULT NOW(),
13  uModifiedDate datetime
14  )";
15
16  if ($conn->query($sql) === true) {
17      echo "Table nnUser created successfully";
18  } else {
19      echo "Error creating table : " . $conn->error;
20  }
21
22  $sql = "DROP TABLE namnh_news.nnUser";
23  if ($conn->query($sql) === true) {
24      echo "Table nnUser dropped successfully";
25  } else {
26      echo "Error dropping table : " . $conn->error;
27  }
28
29  $conn->close();
```

DATA INSERT/SELECT/DELETE/UPDATE

- Like using MYSQL command, but have some rules :

- ✓ The SQL query must be quoted in PHP

- ✓ String values inside the SQL query must be quoted

- ✓ Numeric values must not be quoted

- ✓ The word NULL must not be quoted

```php
1   <?php
2   require './helper.php';
3   $conn = connectDatabase();
4   $sql = "INSERT INTO namnh_news.nnUser (uLastName,uFirstName,uEmail,uRole)
5   VALUES
6   ( 'Nam', 'Nguyen', 'namnh.website@gmail.com', 1),
7   ( 'John', 'Cenna', 'cenna.john@hotmail.com', 2),
8   ( 'Henry', 'Tran', 'tranhe@resolutioninc.com', 2),
9   ('Christiaan', 'Hunter', 'ch.pageworth@pageworth.com', 1),
10  ( 'Vicky', 'Nguyen', 'vicky06@gmail.com', 2)";
11
12  if ($conn->query($sql) === true) {
13      echo "Table nnUser created successfully";
14  } else {
15      echo "Error creating table : " . $conn->error;
16  }
17
18  $sql = "SELECT * FROM namnh_news.nnUser limit 5";
19  $result = $conn->query($sql);
20  if ($result->num_rows > 0) {
21      while ($row = $result->fetch_assoc()) {
22          echo " UserID : " . $row["uId"] . " - Full Name : " . $row["uLastName"]
    . " " . $row["uFirstName"] . " - Email : " . $row["uEmail"] . "<br>";
23      }
24  } else {
25      echo "0 results";
26  }
27
28  $conn->close();
```

PREPARED STATEMENTS

- Very useful against SQL injections.

- Execute the same SQL statements repeatedly with high efficiency.

- Faster, take less resource from server than normal query.

```php
1   <?php
2   require './helper.php';
3   $conn = connectDatabase();
4
5   $stmt = $conn->prepare("INSERT INTO namnh_news.nnUser (uLastName,uFirstName,
    uEmail,uRole) VALUES (?,?,?,?)");
6   $stmt->bind_param("sssi", $uLastName, $uFirstName, $uEmail, $uRole);
7
8   $uLastName = 'Ford';
9   $uFirstName = 'Henry';
10  $uEmail = "henry.ford@ford.com";
11  $uRole = 2;
12  $stmt->execute();
13
14  echo "Using Prepared to insert new data successfully";
15
16  $stmt->close();
17  $conn->close();
```

TIME TO PRACTICE.