**LESSON 5: PHP-MYSQL CODE EXERCISES [BSIT/BTIT/BBIT JUNE 2021]**

***Exercise 1. Connecting to MYSQL***

<?php

$servername = "localhost";

$username = "root";

$password = "";

// Create connection

$conn = new mysqli($servername, $username, $password);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

echo "Connected successfully";

?>

***Exercise 2. Connecting to MYSQL using PDO***

<?php

$servername = "localhost";

$username = "root";

$password = "";

try {

$conn = new PDO("mysql:host=$servername;dbname=myDB", $username, $password);

// set the PDO error mode to exception

$conn->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);

echo "Connected successfully";

} catch(PDOException $e) {

echo "Connection failed: " . $e->getMessage();

}

?>

***Exercise 3. Code for Creating Table***

CREATE TABLE MyGuests (

id INT(6) UNSIGNED AUTO\_INCREMENT PRIMARY KEY,

firstname VARCHAR(30) NOT NULL,

lastname VARCHAR(30) NOT NULL,

email VARCHAR(50),

reg\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP

)

***Exercise 4. Using SELECT Statement***

<?php

$servername = "localhost";

$username = "username";

$password = "password";

$dbname = "myDB";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql = "SELECT id, firstname, lastname FROM MyGuests";

$result = $conn->query($sql);

if ($result->num\_rows > 0) {

// output data of each row

while($row = $result->fetch\_assoc()) {

echo "id: " . $row["id"]. " - Name: " . $row["firstname"]. " " . $row["lastname"]. "<br>";

}

} else {

echo "0 results";

}

$conn->close();

?>

***Exercise 5. Using SELECT statement: Display in Table***

<?php

$servername = "localhost";

$username = "username";

$password = "password";

$dbname = "myDB";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql = "SELECT id, firstname, lastname FROM MyGuests";

$result = $conn->query($sql);

if ($result->num\_rows > 0) {

echo "<table><tr><th>ID</th><th>Name</th></tr>";

// output data of each row

while($row = $result->fetch\_assoc()) {

echo "<tr><td>".$row["id"]."</td><td>".$row["firstname"]." ".$row["lastname"]."</td></tr>";

}

echo "</table>";

} else {

echo "0 results";

}

$conn->close();

?>

***Exercise 6. Using SELECT statement WITH PDO: Display in Table***

<!DOCTYPE html>

<html>

<body>

<?php

echo "<table style='border: solid 1px black;'>";

echo "<tr><th>Id</th><th>Firstname</th><th>Lastname</th></tr>";

class TableRows extends RecursiveIteratorIterator {

function \_\_construct($it) {

parent::\_\_construct($it, self::LEAVES\_ONLY);

}

function current() {

return "<td style='width: 150px; border: 1px solid black;'>" . parent::current(). "</td>";

}

function beginChildren() {

echo "<tr>";

}

function endChildren() {

echo "</tr>" . "\n";

}

}

$servername = "localhost";

$username = "username";

$password = "password";

$dbname = "myDBPDO";

try {

$conn = new PDO("mysql:host=$servername;dbname=$dbname", $username, $password);

$conn->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);

$stmt = $conn->prepare("SELECT id, firstname, lastname FROM MyGuests");

$stmt->execute();

// set the resulting array to associative

$result = $stmt->setFetchMode(PDO::FETCH\_ASSOC);

foreach(new TableRows(new RecursiveArrayIterator($stmt->fetchAll())) as $k=>$v) {

echo $v;

}

}

catch(PDOException $e) {

echo "Error: " . $e->getMessage();

}

$conn = null;

echo "</table>";

?>

</body>

</html>

***Exercise 7. Using INSERT***

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "myDB";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql = "INSERT INTO MyGuests (firstname, lastname, email)

VALUES ('John', 'Mwangi', 'john@mwangi.com')";

if ($conn->query($sql) === TRUE) {

echo "New record created successfully";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

$conn->close();

?>

***Exercise 8. Using UPDATE***

<?php

$servername = "localhost";

$username = "username";

$password = "password";

$dbname = "myDB";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql = "UPDATE MyGuests SET lastname='Doe' WHERE id=2";

if ($conn->query($sql) === TRUE) {

echo "Record updated successfully";

} else {

echo "Error updating record: " . $conn->error;

}

$conn->close();

?>

***Exercise 8. Using DELETE***

<?php

$servername = "localhost";

$username = "username";

$password = "password";

$dbname = "myDB";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

// sql to delete a record

$sql = "DELETE FROM MyGuests WHERE id=3";

if ($conn->query($sql) === TRUE) {

echo "Record deleted successfully";

} else {

echo "Error deleting record: " . $conn->error;

}

$conn->close();

?>