**Experiment 13**

**Title :** Insert user entered data in form to MySQL database using PHP

**Aim :** To make student understand the basic concept of MySQL database and insert query using php and HTML form

**Insert data into databse which is entered through HTML form**

MySQL is a widely used relational database management system (RDBMS) that stores data in tables. It is known for its reliability, flexibility, and ease of use, making it a popular choice for web applications. MySQL supports standard SQL (Structured Query Language) for querying and managing data.

**Key Features of MySQL**

**Relational Database**: MySQL organizes data into tables, which are related to each other through foreign keys.

**Scalability**: MySQL can handle large volumes of data and can be scaled vertically or horizontally to meet demand.

**Cross-Platform**: MySQL runs on various operating systems, including Windows, Linux, and macOS.

**High Performance**: It is optimized for high-speed data processing.

Open Source: MySQL is available as open-source software, which means it can be freely used and modified.

**Data Integrity**: Supports transactions, allowing for reliable data management through ACID (Atomicity, Consistency, Isolation, Durability) properties.

**Basic MySQL Operations**

The fundamental operations performed in MySQL include:

**Creating a Database**: CREATE DATABASE database\_name;

**Creating a Table**: CREATE TABLE table\_name (...);

**Inserting Data**: INSERT INTO table\_name (columns) VALUES (values);

**Querying Data**: SELECT \* FROM table\_name;

**Updating Data**: UPDATE table\_name SET column1 = value1 WHERE condition;

**Deleting Data**: DELETE FROM table\_name WHERE condition;

**Inserting Data into MySQL**

The INSERT statement is used to add new rows to a table. Here’s the basic syntax:

**INSERT INTO table\_name (column1, column2, column3, ...) VALUES (value1, value2, value3, ...);**

**Create the HTML Form**

Create a file named **form.html** for the user input

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>User Registration</title>

</head>

<body>

<h2>User Registration Form</h2>

<form action="insert.php" method="POST">

<label for="username">Username:</label>

<input type="text" id="username" name="username" required>

<br><br>

<label for="email">Email:</label>

<input type="email" id="email" name="email" required>

<br><br>

<input type="submit" value="Submit">

</form>

</body>

</html>

**Create the PHP Script to Insert Data**

Create a file named **insert.php** that will process the form submission and insert data into the database

<?php

// Database configuration

$host = 'localhost'; // Change if your DB is hosted elsewhere

$dbname = 'example\_db';

$username = 'root'; // Default username for MySQL

$password = ''; // Default password (leave empty if none)

// Create a connection

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

// Check the connection

if ($conn->connect\_error) {

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

}

// Check if the form is submitted

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

// Get user input

$user = $conn->real\_escape\_string($\_POST['username']);

$email = $conn->real\_escape\_string($\_POST['email']);

// Insert query

$sql = "INSERT INTO users (username, email) VALUES ('$user', '$email')";

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

echo "New record created successfully";

} else {

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

}

}

// Close the connection

$conn->close();

?>

**Conclusion:-**

Thus we have studied how to insert data into MySql database using PHP