INSERT UPDATE AND DELETE FUNCTIONS OF PHP AND MYSQL
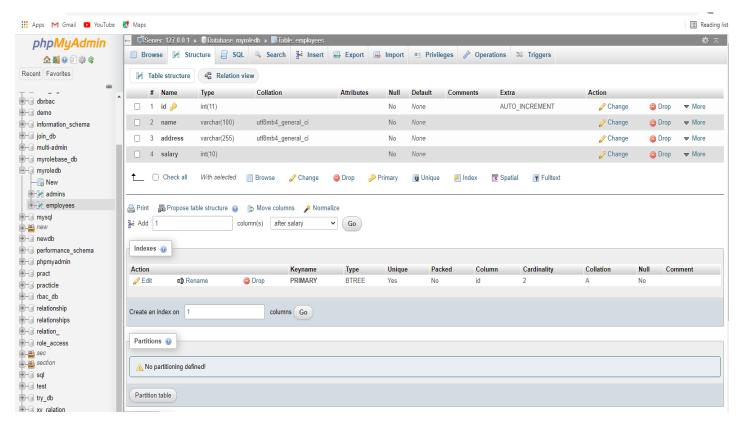
Step: 1

Create Database and Table:

Step:2

Create Connection String:

Filename: **config.php**

```php
<?php
$host = "localhost";
$use = "root";
$password = "";
$dbname = "myroledb";
$link  = new mysqli($host, $use, $password,$dbname);
if($link ->connect_error)
        die("connection failled:" .$link ->connect_error);
?>
```

Step:3

Filename: index.php

```html
<html lang="en">
<head>
   <meta charset="UTF-8">
   <title>Dashboard</title>
   <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
   <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css">
   <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
   <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
   <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
   <style>
      .wrapper{
         width: 600px;
         margin: 0 auto;
      }
      table tr td:last-child{
         width: 120px;
      }
   </style>
   <script>
      $(document).ready(function(){
         $('[data-toggle="tooltip"]').tooltip();
      });
   </script>
</head>
<body>
   <div class="wrapper">
      <div class="container-fluid">
         <div class="row">
```

```php
        <div class="col-md-12">
            <div class="mt-5 mb-3 clearfix">
                <h2 class="pull-left">Employees Details</h2>
                <a href="create.php" class="btn btn-success pull-right"><i class="fa fa-plus"></i> Add New
Employee</a>
            </div>
            <?php



            require_once "config.php";



            $sql = "SELECT * FROM employees";
            if($result = mysqli_query($link, $sql)){
                if(mysqli_num_rows($result) > 0){
                    echo '<table class="table table-bordered table-striped">';
                        echo "<thead>";
                            echo "<tr>";
                                echo "<th>#</th>";
                                echo "<th>Name</th>";
                                echo "<th>Address</th>";
                                echo "<th>Salary</th>";
                                echo "<th>Action</th>";
                            echo "</tr>";
                        echo "</thead>";
                        echo "<tbody>";
                        while($row = mysqli_fetch_array($result)){
                            echo "<tr>";
                                echo "<td>" . $row['id'] . "</td>";
                                echo "<td>" . $row['name'] . "</td>";
                                echo "<td>" . $row['address'] . "</td>";
                                echo "<td>" . $row['salary'] . "</td>";
                                echo "<td>";
```

```php
                    echo '<a href="read.php?id='. $row['id'] .'" class="mr-3" title="View Record" data-toggle="tooltip"><span class="fa fa-eye"></span></a>';
                    echo '<a href="update.php?id='. $row['id'] .'" class="mr-3" title="Update Record" data-toggle="tooltip"><span class="fa fa-pencil"></span></a>';
                    echo '<a href="delete.php?id='. $row['id'] .'" title="Delete Record" data-toggle="tooltip"><span class="fa fa-trash"></span></a>';
                echo "</td>";
            echo "</tr>";
        }
        echo "</tbody>";
    echo "</table>";


    mysqli_free_result($result);
    } else{
        echo '<div class="alert alert-danger"><em>No records were found.</em></div>';
    }
} else{
    echo "Oops! Something went wrong. Please try again later.";
}
mysqli_close($link);
?>
            </div>
        </div>
    </div>
  </div>
</body>
</html>
```

Step: 4

Filename: create.php

```php
<?php
require_once "config.php";
 $name = $address = $salary = "";
$name_err = $address_err = $salary_err = "";



if($_SERVER["REQUEST_METHOD"] == "POST"){

    $input_name = trim($_POST["name"]);
    if(empty($input_name)){
        $name_err = "Please enter a name.";
    } elseif(!filter_var($input_name, FILTER_VALIDATE_REGEXP, array("options"=>array("regexp"=>"/^[a-zA-Z\s]+$/")))){
        $name_err = "Please enter a valid name.";
    } else{
        $name = $input_name;
    }

    $input_address = trim($_POST["address"]);
    if(empty($input_address)){
        $address_err = "Please enter an address.";
    } else{
        $address = $input_address;
    }



    $input_salary = trim($_POST["salary"]);
    if(empty($input_salary)){
```

```php
        $salary_err = "Please enter the salary amount.";
    } elseif(!ctype_digit($input_salary)){
        $salary_err = "Please enter a positive integer value.";
    } else{
        $salary = $input_salary;
    }


    if(empty($name_err) && empty($address_err) && empty($salary_err)){

        $sql = "INSERT INTO employees (name, address, salary) VALUES (?, ?, ?)";

        if($stmt = mysqli_prepare($link, $sql)){

            mysqli_stmt_bind_param($stmt, "sss", $param_name, $param_address, $param_salary);


            $param_name = $name;
            $param_address = $address;
            $param_salary = $salary;


            if(mysqli_stmt_execute($stmt)){

                header("location: index.php");
                exit();
            } else{
                echo "Oops! Something went wrong. Please try again later.";
            }
        }
```

```php
            mysqli_stmt_close($stmt);
        }



    mysqli_close($link);
}
?>
```

```html
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Create Record</title>
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <style>
        .wrapper{
            width: 600px;
            margin: 0 auto;
        }
    </style>
</head>
<body>
    <div class="wrapper">
        <div class="container-fluid">
            <div class="row">
                <div class="col-md-12">
                    <h2 class="mt-5">Create Record</h2>
                    <p>Please fill this form and submit to add employee record to the database.</p>
                    <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>" method="post">
                        <div class="form-group">
```

```html
                    <label>Name</label>

                    <input type="text" name="name" class="form-control <?php echo (!empty($name_err)) ? 'is-invalid' : ''; ?>" value="<?php echo $name; ?>">

                    <span class="invalid-feedback"><?php echo $name_err;?></span>

                </div>

                <div class="form-group">

                    <label>Address</label>

                    <textarea name="address" class="form-control <?php echo (!empty($address_err)) ? 'is-invalid' : ''; ?>"><?php echo $address; ?></textarea>

                    <span class="invalid-feedback"><?php echo $address_err;?></span>

                </div>

                <div class="form-group">

                    <label>Salary</label>

                    <input type="text" name="salary" class="form-control <?php echo (!empty($salary_err)) ? 'is-invalid' : ''; ?>" value="<?php echo $salary; ?>">

                    <span class="invalid-feedback"><?php echo $salary_err;?></span>

                </div>

                <input type="submit" class="btn btn-primary" value="Submit">

                <a href="index.php" class="btn btn-secondary ml-2">Cancel</a>

            </form>

        </div>

      </div>

    </div>

  </div>

</body>

</html>
```

Step: 5:

Filename: **read.php**

```php
<?php

if(isset($_GET["id"]) && !empty(trim($_GET["id"]))){

    require_once "config.php";

    $sql = "SELECT * FROM employees WHERE id = ?";

    if($stmt = mysqli_prepare($link, $sql)){

        mysqli_stmt_bind_param($stmt, "i", $param_id);

        $param_id = trim($_GET["id"]);

        if(mysqli_stmt_execute($stmt)){
            $result = mysqli_stmt_get_result($stmt);

            if(mysqli_num_rows($result) == 1){

                $row = mysqli_fetch_array($result, MYSQLI_ASSOC);

                $name = $row["name"];
                $address = $row["address"];
                $salary = $row["salary"];
```

```php
        } else{

            header("location: error.php");

            exit();

        }

    } else{

        echo " went wrong. Please try again later.";

    }

}



    mysqli_stmt_close($stmt);



    mysqli_close($link);

} else{



    header("location: error.php");

    exit();

}

?>
```

```html
<html lang="en">
<head>

    <meta charset="UTF-8">

    <title>View Record</title>

    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

    <style>

        .wrapper{
```

```
        width: 600px;

        margin: 0 auto;

      }

  </style>

</head>

<body>

  <div class="wrapper">

    <div class="container-fluid">

      <div class="row">

        <div class="col-md-12">

          <h1 class="mt-5 mb-3">View Record</h1>

          <div class="form-group">

            <label>Name</label>

            <p><b><?php echo $row["name"]; ?></b></p>

          </div>

          <div class="form-group">

            <label>Address</label>

            <p><b><?php echo $row["address"]; ?></b></p>

          </div>

          <div class="form-group">

            <label>Salary</label>

            <p><b><?php echo $row["salary"]; ?></b></p>

          </div>

          <p><a href="index.php" class="btn btn-primary">Back</a></p>

        </div>

      </div>

    </div>

  </div>

</body>

</html>
```

Step: 6

Filename   update.php

```php
<?php

require_once "config.php";

$name = $address = $salary = "";
$name_err = $address_err = $salary_err = "";

if(isset($_POST["id"]) && !empty($_POST["id"])){

    $id = $_POST["id"];

    $input_name = trim($_POST["name"]);
    if(empty($input_name)){
        $name_err = "Please enter a name.";
    } elseif(!filter_var($input_name, FILTER_VALIDATE_REGEXP, array("options"=>array("regexp"=>"/^[a-zA-Z\s]+$/")))){
        $name_err = "Please enter a valid name.";
    } else{
        $name = $input_name;
    }

    $input_address = trim($_POST["address"]);
    if(empty($input_address)){
        $address_err = "Please enter an address.";
```

```php
} else{
    $address = $input_address;
}



$input_salary = trim($_POST["salary"]);
if(empty($input_salary)){
    $salary_err = "Please enter the salary amount.";
} elseif(!ctype_digit($input_salary)){
    $salary_err = "Please enter a positive integer value.";
} else{
    $salary = $input_salary;
}



if(empty($name_err) && empty($address_err) && empty($salary_err)){

    $sql = "UPDATE employees SET name=?, address=?, salary=? WHERE id=?";

    if($stmt = mysqli_prepare($link, $sql)){

        mysqli_stmt_bind_param($stmt, "sssi", $param_name, $param_address, $param_salary, $param_id);



        $param_name = $name;
        $param_address = $address;
        $param_salary = $salary;
        $param_id = $id;



        if(mysqli_stmt_execute($stmt)){
```

```php
                header("location: index.php");
                exit();
            } else{
                echo "Oops! Something went wrong. Please try again later.";
            }
        }



        mysqli_stmt_close($stmt);
    }



    mysqli_close($link);
} else{

    if(isset($_GET["id"]) && !empty(trim($_GET["id"]))){


        $id =  trim($_GET["id"]);



        $sql = "SELECT * FROM employees WHERE id = ?";
        if($stmt = mysqli_prepare($link, $sql)){


            mysqli_stmt_bind_param($stmt, "i", $param_id);



            $param_id = $id;



            if(mysqli_stmt_execute($stmt)){
```

```php
        $result = mysqli_stmt_get_result($stmt);

        if(mysqli_num_rows($result) == 1){

            $row = mysqli_fetch_array($result, MYSQLI_ASSOC);



            $name = $row["name"];
            $address = $row["address"];
            $salary = $row["salary"];
        } else{


            header("location: error.php");
            exit();
        }


    } else{
        echo " went wrong. Please try again later.";
    }
    }


    mysqli_stmt_close($stmt);



    mysqli_close($link);
} else{


    header("location: error.php");
    exit();

}
```

```php
}
?>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Update Record</title>
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <style>
        .wrapper{
            width: 600px;
            margin: 0 auto;
        }
    </style>
</head>
<body>
    <div class="wrapper">
        <div class="container-fluid">
            <div class="row">
                <div class="col-md-12">
                    <h2 class="mt-5">Update Record</h2>
                    <p>Please edit the input values and submit to update the employee record.</p>
                    <form action="<?php echo htmlspecialchars(basename($_SERVER['REQUEST_URI'])); ?>" method="post">
                        <div class="form-group">
                            <label>Name</label>
                            <input type="text" name="name" class="form-control <?php echo (!empty($name_err)) ? 'is-invalid' : ''; ?>" value="<?php echo $name; ?>">
                            <span class="invalid-feedback"><?php echo $name_err;?></span>
                        </div>
                        <div class="form-group">
```

```
                <label>Address</label>

                <textarea name="address" class="form-control <?php echo (!empty($address_err)) ? 'is-
invalid' : ''; ?>"><?php echo $address; ?></textarea>

                <span class="invalid-feedback"><?php echo $address_err;?></span>

            </div>

            <div class="form-group">

                <label>Salary</label>

                <input type="text" name="salary" class="form-control <?php echo (!empty($salary_err)) ? 'is-
invalid' : ''; ?>" value="<?php echo $salary; ?>">

                <span class="invalid-feedback"><?php echo $salary_err;?></span>

            </div>

            <input type="hidden" name="id" value="<?php echo $id; ?>"/>

            <input type="submit" class="btn btn-primary" value="Submit">

            <a href="index.php" class="btn btn-secondary ml-2">Cancel</a>

        </form>

      </div>

    </div>

   </div>

</body>

</html>
```

Step:7

Filename: **delete.php**

```php
<?php

if(isset($_POST["id"]) && !empty($_POST["id"])){

    require_once "config.php";


    $sql = "DELETE FROM employees WHERE id = ?";

    if($stmt = mysqli_prepare($link, $sql)){

        mysqli_stmt_bind_param($stmt, "i", $param_id);


        $param_id = trim($_POST["id"]);


        if(mysqli_stmt_execute($stmt)){

            header("location: index.php");
            exit();
        } else{
            echo "Oops! Something went wrong. Please try again later.";
        }
    }


    mysqli_stmt_close($stmt);
```

```php
    mysqli_close($link);
} else{


    if(empty(trim($_GET["id"]))){


        header("location: error.php");
        exit();
    }
}
?>
```

```html
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Delete Record</title>
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <style>
        .wrapper{
            width: 600px;
            margin: 0 auto;
        }
    </style>
</head>
<body>
    <div class="wrapper">
        <div class="container-fluid">
            <div class="row">
                <div class="col-md-12">
```

```html
            <h2 class="mt-5 mb-3">Delete Record</h2>
            <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>" method="post">
                <div class="alert alert-danger">
                    <input type="hidden" name="id" value="<?php echo trim($_GET["id"]); ?>"/>
                    <p>Are you sure you want to delete this employee record?</p>
                    <p>
                        <input type="submit" value="Yes" class="btn btn-danger">
                        <a href="index.php" class="btn btn-secondary">No</a>
                    </p>
                </div>
            </form>
        </div>
      </div>
    </div>
  </div>
</body>
</html>
```

**********************************END***