Prepractical work

Prepractical work

- Create a table **dogsrecords** with the structure as shown

Table Name:	dogsrecords										Sch
Charset/Collation:	utf8mb4	∨	utf8mb4_0900_ai_ci					∨			Engi

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
🔑 didnum	INT	✓	✓	✓	☐	☐	☐	☐	☐	
◇ dname	VARCHAR(35)	☐	✓	☐	☐	☐	☐	☐	☐	
◇ dgender	VARCHAR(20)	☐	✓	☐	☐	☐	☐	☐	☐	
◇ dbreed	VARCHAR(45)	☐	✓	☐	☐	☐	☐	☐	☐	
◇ dcolor	VARCHAR(50)	☐	✓	☐	☐	☐	☐	☐	☐	
◇ dage	INT	☐	✓	☐	☐	☐	☐	☐	☐	
◇ dheight	INT	☐	✓	☐	☐	☐	☐	☐	☐	
◇ dweight	INT	☐	✓	☐	☐	☐	☐	☐	☐	
◇ picture	VARCHAR(60)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
		☐	☐	☐	☐	☐	☐	☐	☐	

Create an HTML form to populate the **dogsrecords.html** using the code

Dog Input Form:

Dog ID Number:	[_____]
Dog Name:	[_____]
Choose Dog Gender:	None ▾
Choose Dog breed:	None ▾
Choose Dog Color:	None ▾
Age:	[_____] : Years
Height:	[_____] : Centimeters (CM)
Weight:	[_____] : Kilograms (Kgs)
Dog Image:	Choose File No file chosen
Create dog record	Clear form

```
AddDogForm.html > html > body > form > table > tr > tr > td > select#dgender > option
1   <!DOCTYPE html>
2
3   <html lang="en">
4
5   <head>
6       <meta charset="UTF-8">
7       <meta name="viewport" content=
8   "width=device-width, initial-scale=1.0">
9   <title>
10      form to add dog
11
12  </title>
13  <style>
14      body{
15
16  background-color: lightblue;
17
18      }
19
20  </style>
21
22  </head>
23
24
25  <body>
26  <form action="addog.php"  method = "POST"  enctype = "multipart/form-data">
27
28          <table width = 25%>
29          <tr><th colspan = "2">Dog Input Form:</th>
30
31          <tr><td> Dog ID Number: </td><td> <input type="text" id="didnum" name="didnum" required></td></tr>
32
33          <tr><td>Dog Name: </td><td><input type="text" id="dname" name="dname" required></td></tr>
34
```

```html
      <tr><td>Choose Dog Gender:</td><td>
<select name="dgender" id="dgender" required>
  <option value="">None</option>
  <option value="Female">Female</option>
  <option value="Male">Male</option>
  </select></td></tr>


  <tr><td>Choose Dog breed:</td><td>
  <select name="dbreed" id="dbreed" required>
  <option value="">None</option>
  <option value="Affenpinscher">Affenpinscher</option>
  <option value="Akita">Akita</option>
  <option value="Basset Hound">Basset Hound</option>
  <option value="Beagle">Beagle</option>
  <option value="Bernese Mountain Dog">Bernese Mountain Dog</option>
  <option value="Bloodhound">Bloodhound</option>
  <option value="Boerboel">Boerboel</option>
  <option value="Border Collie">Border Colli</option>
  <option value="German Shepherd">German Shepherd</option>
  <option value="Labrador Retriever">Labrador Retriever</option>
  <option value=" Rhodesian Ridgeback">Rhodesian Ridgeback</option>
  </select></td></tr>


  <tr><td>Choose Dog Color:</td><td>
  <select name="dcolor" id="dcolor"  required>
  <option value="">None</option>
  <option value="White">White</option>
  <option value="Black">Black</option>
  <option value="Brown">Brown</option>
  <option value="Grey">Grey</option>
  <option value="Red">Red</option>
  <option value="Black and White">Grey</option>
  <option value="Yellow">Yello</option>
  <option value="Grey">Grey</option>
</select></td></tr>
```

```html
72
73
74          <tr><td>Age:</td><td>
75          <input type="text" id="dage" name="dage" size = "4" required >: Years</td></tr>
76
77          <tr><td>Height:</td><td>
78          <input type="text" id="dheight" name="dheight" size = "4" required>: Centimeters (CM)</td></tr>
79
80
81          <tr><td>Weight:</td><td>
82          <input type="text" id="dweight" name="dweight" size = "4" required> : Kilograms (Kgs)</td></tr>
83
84
85          <tr><td>Dog Image:</td><td>
86            <input type ="file" name = "picture" id = "picture" required></td></tr>
87
88                <tr><td><input type="submit" value=" Create dog record "></td><td> <input type="reset" value=" Clear form"></td></tr>
89        </table>
90        </form>
91
92
93  </body>
94  </html>
```

End of code

Create PHP code to link form to the database table


```
addog.php > html > body
1    <html>
2        <head>
5            <style>
8    }
9
10         </style>
11       </head>
12
13   <body>
14   <?php
15
16   include 'databaseConnection.php';
17
18   $did = $_REQUEST['didnum'];
19   $dname =  $_REQUEST['dname'];
20   $dgender = $_REQUEST['dgender'];
21   $dcolor = $_REQUEST['dcolor'];
22   $dage = $_REQUEST['dage'];
23   $dheight = $_REQUEST['dheight'];
24   $dweight = $_REQUEST['dweight'];
25   $dbreed = $_REQUEST['dbreed'];
26   $picture = $_FILES['picture']['name']; //image selection
27
28   $destination = "dogs/".$picture;
29   move_uploaded_file($_FILES['picture']['tmp_name'],$destination);  // image upload
30
31
32   // SQL statement to add to database table
33   $sql1 = "INSERT INTO dogsrecords(didnum, dname, dgender, dbreed, dage, dcolor, dheight, dweight,picture)
34              VALUES('$did','$dname','$dgender','$dbreed','$dage', '$dcolor','$dheight', '$dweight','$picture')";
35
36   $result = $conn->query($sql1); //query statement to execute SQL
37   if($result == FALSE){                    //verfication statemen
38       die("Unable to create the record". $conn->connect_error); // error when inserting fails
39
40   } else {
41   echo "<br></br> Dog record successfully created";
42
43   }
44
45   $conn->close();                //close the conncetion everytime
46
47         //menu options for navigating to other forms
48       echo"<p><a href= \"AddDogForm.html\"><button>Add another dog </button></a> </p>";
49       echo"<p><input type = \"submit\" value = \"Update dog record\" </p>";
50       echo " <p> <a href= \"displayAllrecords.php\"><button>Display All Records </button></a><p>" ;
51       echo "<p><a href= \"dogRecordsearchform.html\"><button> Search a record </button></a></p>";
52       echo " <p> <a href= \"loginForm.html\"><button>Back to Login </button></a></p>";
53
54
55   echo "</body>";
56   ?>
57   </form>
58   </body>
59   </html>
```

Create an HTML for to search for a record


```html
dogRecordSearchForm.html > ...
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>Record searching form</title>
7        <style>
8            body{
9
10               background-color: lightblue;
11           }
12           h2{
13               color: blue;
14               text-align: left;
15           }
16
17       </style>
18
19   </head>
20   <body>
21       <h2> RECORD SEARCH FORM </h2>
22
23       <form action = "dogRecordsearch.php" method = "POST" enctype="multipart/form-data">
24
25           Enter Dog ID Number:  <input type = "text" name = "strsearch" maxlength = "35" size = "20" value ="" required>
26
27               
28
29           <input type = "submit" value = "   SEARCH   ">
30       </br>
31       </br>
32
33
34       <!--<p> <a href= "recordInputForm.html"><button>Add another record </button></a></p>-->
35
36
37
38       </form>
39   </body>
40   </html>
41
```

Create a PHP script to search and display a record from the dogs records table

Moses Moyo connected to server on 07/16/2025 03:46:42 pm

matching record found

-----------Details in editable format---------------------

Dog Number: `12`

Name: `Mathathazela`

Gender: `Female`

Breed: `African Hound`

Age: `33`

Color: `White`

Height: `22`

Weight: `12`

------------------Record in an uneditable format---------------------

Dog number: 12

Dog name: Mathathazela

Dog Gende: Female

Do Breed: African Hound

Age: 33

Color: White

Height: 22

Weight: 12

`Update current records`

`Delete current records`

`Search another record`

`Display all records`

```php
dogRecordSearchForm.php > html > body
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>Record searching form</title>
7        <style>
8            body{
9
10               background-color:lightblue;
11           }
12           h2{
13               color:blue;
14               text-align: left;
15           }
16
17       </style>
18   </head>
19   <body>
20       <h2> RECORD SEARCH FORM </h2>
21
22       <form action = "dogRecordSearchForm.php" method = "POST" enctype="multipart/form-data">
23
24           Enter Dog ID Number:  <input type = "text" name = "strsearch" maxlength = "35" size = "20" value ="" required>
25
26               
27
28           <input type = "submit" value = "    SEARCH    ">
29       </br>
30       </br>
31
32       </form>
33
34   <?php
35       require 'databaseConnection.php'; // copies all the code from the file to this section
36
37       $searchCriterion = $_REQUEST['strsearch'];  //login details from the login form
38
39
40
41       $sql = "SELECT * FROM dogsrecords WHERE didnum = '$searchCriterion'";    //query to search a record matching login details
42
43       $result = $conn->query($sql); //executes a query as store results in variable
44
45       if($result ->num_rows ==1) {        // checks if a matching record is found
46
47           echo "<p>matching record found </p>";
```

```php
        //Display matching records in editable format
        echo " <p> -----------Details in editable format---------------------</p>";
        $row = $result->fetch_assoc();

        echo "<br> Dog Number: <input type =\"text\" value = \"". $row["didnum"]."\"></br>";
        echo "<br> Name: <input type =\"text\" value = \"". $row["dname"]."\"></br>";
        echo "<br> Gender: <input type =\"text\" value = \"". $row["dgender"]."\"></br>";
        echo "<br> Breed:   <input type =\"text\" value = \"". $row["dbreed"]."\"></br>";
        echo "<br> Age:  <input type =\"text\" value = \"". $row["dage"]."\"></br>";
        echo "<br> Color:   <input type =\"text\" value = \"". $row["dcolor"]."\"></br>";
        echo "<br> Height: <input type =\"text\" value = \"". $row["dheight"]."\"></br>";
        echo "<br> Weight: <input type =\"text\" value = \"". $row["dweight"]."\"></br>";
        echo "    </br>";


    } else {

        echo "<p>No matching record found. Try using other search criteria </p>";


    }
    ?>


    <form action = dogRecordSearchForm.php method = "POST" enctype="multipart/form-data">
        <br> Dog Number: <input type ="text" value = <?php echo $row["didnum"];?>> </br>
        <br> Name: <input type ="text" name = "dgname" value = <?php echo $row["dname"];?>> </br>
        <br> Gender: <input type ="text" name = "dggender"value = <?php echo $row["dgender"];?>> </br>
        <br> Breed:   <input type ="text" name = "dgbreed" value = <?php echo $row["dbreed"];?>> </br>
    <br> Age:  <input type ="text" name = "dgage"value = <?php echo $row["dage"];?>> </br>
        <br> Color:   <input type ="text" name ="dgcolor" value = <?php echo $row["dcolor"];?>> </br>
        <br> Height: <input type ="text" name = "dgheight" value = <?php echo $row["dheight"];?>> </br>
        <br> Weight: <input type ="text" name = "dgweight" value = <?php echo $row["dweight"];?>> </br>
          </br>
    </form>


<?php
```

```php
$conn->close();
        echo"<p> <input type = \"submit\" value =\"Update current record \"></p>";
        echo"<p> <a href= \"deleterecord.php\"><button>Delete current records </button></a></p>";
        echo "<p> <a href= \"recordSearchForm.html\"><button> Search another record </button></a></p>";
        echo"<p> <a href= \"displayAllrecords.php\"><button>Display all records </button></a></p>";
        echo "  <p> <a href= \"loginForm.html\"><button>Back to Login </button></a></p>";
    ?>




</body>

</html>
```

Create a PHP script to display all the records in the dogsrecords table so that you can update or delete a record

Moses Moyo connected to server on 07/16/2025 03:50:36 pm

All dog record(s) in the system

Idnum	Name	Gender	Breed	Age	Color	Height	Weight	Image	Update	Delete
12	Mathathazela	Female	African Hound	33	White	22	12		Update	Delete
100	Blackie	Female		5	Black	120	200		Update	Delete
121	Mbombela	Male	South African	12	White	45	35		Update	Delete
345	Pupy	Female	Akita	10	Black	3	20		Update	Delete
472	Mapulanka	Male	Affenpinscher	45	Brown	90	68		Update	Delete

```php
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>All records results</title>
7        <style>
8          body {
9            background-color:lightblue;
10
11          }
12          h2{
13             color:red;
14
15
16          }
17
18        table, th, td {
19    padding: 15px;
20    text-align: left;
21    background-origin: padding-box;
22    }
23
24        </style>
25    </head>
26    <table>
27
28    <?php
29         require 'databaseConnection.php'; // copies all the code from the file to this section
30          //query to search a record matching login details
31          $sql = "SELECT * FROM dogsrecords";
32
33          $result = $conn->query($sql); //executes a query as store results in variable
34
35          if($result ->num_rows > 0) {        // checks if a matching record is found
36
37              //Display all matching records
38
39            echo "<p><h2>All dog record(s) in the system </h2> </p>";
40            echo "<center><table width =\"75%\" bgcolor = \"lightblue\"><tr bgcolor =\"orange\">
41             <th>Idnum</th> <th>Name</th><th>Gender</th><th>Breed</th><th>Age</th>
42             <th>Color</th><th>Height</th><th>Weight</th><th>Image</th><th>Update</th><th>Delete</th>
43             </tr>";
44
45                while( $row = $result->fetch_assoc()) { ?>
46                  <tr>
47                    <td>
48                      <?php echo $row["didnum"];?>
49                    </td>
50
51                    <td>
52                      <?php echo $row["dname"];?>
53                    </td>
54
55                    <td>
56                      <?php echo $row["dgender"];?>
57                    </td>
58
```

```php
            <td>
                <?php echo  $row["dbreed"];?>
            </td>

            <td>
                <?php echo $row["dage"];?>
            </td>

            <td>
                <?php echo  $row["dcolor"];?>
            </td>

            <td>
                <?php echo $row["dheight"];?>
             </td>

            <td>
                <?php echo $row["dweight"];?>
        </td>

            <td>
                <img scr ="\dogs/" <?php echo $row["picture"]; ?>>
            </td>

            <td>  <!--------------code to create buttons and display the idnumber on URL of a referenced form-->
            <a href = "dogsUpdaterecord.php?didnum=<?php echo $row["didnum"] ?>"><button>Update</button></a>
            </td>
            <td>
            <a href = "dogsDeletRecord.php?didnum=<?php echo $row["didnum"] ?>"><button>Delete </button></a>
            </td>

            </tr>

             <?php }
```

```php
            //optional code - reads from a view dogbygender
            // tocreate a the view: CREATE VIEW dogbygender as (SELECT gender, count(gender) as dgendercount FROM dogsrecords GROUP BY gender)
            $sql2 = "SELECT  dgender, gendercount FROM dogbygender Where dgender = 'female'";
            $sql3 = "SELECT  dgender, gendercount FROM dogbygender Where dgender = 'male'";

            $resultgF = $conn->query($sql2);
            $resultgM = $conn->query($sql3);
            $row1 = $resultgF->fetch_assoc();
            $row2 = $resultgM->fetch_assoc();

            echo  "<tr><td> </dt><td> </dt><td>".$row1['dgender']. " dogs: " . $row1['gendercount']."</br>"
            .$row2['dgender']. " dogs: " . $row2['gendercount']."</td><td colspan =\" 8\"> </dt></tr>";



        } else {

          echo "<p>No matching record found. Try using other search criteria </p>";


        }




        $conn->close();
    echo "</table></center>";
      echo"<p><a href= \"AddDogForm.html\"><button>Add another dog </button></a></p>";
    echo " <p> <a href= \"displayAllrecords.php\"><button>Display All dog Records </button></a></p>" ;
     echo "<p><a href= \"dogRecordSearchForm.html\"><button> Search another dog record </button></a></p>";
      echo " <p> <a href= \"loginForm.html\"><button>Back to Login </button></a></p>" ;



     ?>

  </body>
  </html>
```

Create the php script for the file in line 84 in the previous slide, which is automatically populated with a record when the update button is clicked

Moses Moyo connected to server on 07/16/2025 04:06:58 pm
dog idnumber = 100 extracted from the URL using GET
dog idnumber = 100 extracted from database using query

Dog record update form

ID Number:	100	
Name:	Blackie	
Gender:	Female	
Breed:		
Color:	Black	
Age:	5	(Yrs)
Height:	120	(cms)
Weight:	200	(Kgs)
Image:	Choose File No file chosen	

Update dog record

```php
dogsUpdaterecord.php > ...
1  <?php
2  include 'databaseConnection.php';
3
4  $dog_Id = $_GET['didnum']; //Extract idnumber from the url
5
6  $sql_select = "SELECT * FROM  dogsrecords where didnum = '$dog_Id' ";
7   $result = $conn->query($sql_select);
8  $row2 = $result ->fetch_assoc();
9
10 echo "dog idnumber = ". $dog_Id. " extracted from the URL using GET</br>";
11
12 echo "dog idnumber = ". $row2['didnum']. " extracted from database using query";
13
14 //if($_SERVER['REQUEST_METHOD'] =="POST")
15
16   if(isset($_POST['update'])){  //update is name of submit button
17     $dog_Id = $_GET['didnum'];
18     $dname = $_POST['dname'];
19     $dgender = $_POST['dgender'];
20     $dbreed= $_POST['dbreed'];
21     $dage= $_POST['dage'];
22     $dcolor= $_POST['dcolor'];
23     $dheight= $_POST['dheight'];
24     $dweight= $_POST['dweight'];
25
26     $sql_update = "UPDATE dogsrecords  SET    dname = '$dname',
27         dgender = '$dgender',
28         dbreed  = '$dbreed',
29         dage  = '$dage',
30         dcolor  = '$dcolor',
31         dheight  = '$dheight',
32         dweight  = '$dweight'  WHERE  didnum = '$dog_Id'";
33
```

```php
33
34        $query_execute = $conn->query($sql_update);
35
36    if($query_execute){
37    //  echo "<script>alert('Record successfully updated')</script>";
38    header("Location:displayAllrecords.php");
39
40      $conn->close();
41    } else {
42
43       echo "<script>alert('Record could update failed. Retry')</script>";
44       header("Location:displayAllrecords.php");
45
46  }
47  }
48  ?>
49  <!DOCTYPE html>
50
51  <html>
52      <head>
53  <title></title>
54
55  <style>
56  body{
57
58  background-color: lightblue;
59
60  }
61  h2 {
62      color: blue;
63  }
64      </style>
65
66  <head>
67
68  <body>
69
70  <h2>Dog record update form</h2>
71  <hr>
72
```

```php
73
74  <form action= ""  method = "POST"  enctype = "multipart/form-data">
75
76      <table width = 25%>
77
78      <tr><td> ID Number: </td><td> <input type="text" id="didnum" name="didnum" value ="<?php echo $row2['didnum'];?>"></td></tr>
79
80        <tr><td>Name: </td><td><input type="text" id="dname" name="dname" value ="<?php echo $row2['dname'];?>"></td></tr>
81
82        <tr><td> Gender:</td><td><input type ="text" name="dgender" id="dgender" value ="<?php echo $row2['dgender'];?>"></td></tr>
83
84        <tr><td> Breed:</td><td> <input type = "text" name="dbreed" id="dbreed" value ="<?php echo $row2['dbreed'];?>"></td></tr>
85
86        <tr><td>Color:</td><td><input type = "text" name="dcolor" id="dcolor" value ="<?php echo $row2['dcolor'];?>" ></td></tr>
87
88      <tr><td>Age:</td><td> <input type="text" id="dage" name="dage" size = "4" value ="<?php echo $row2['dage'];?>" > (Yrs)</td></tr>
89
90      <tr><td>Height:</td><td>
91      <input type="text" id="dheight" name="dheight" size = "4" value ="<?php echo $row2['dheight'];?>"> (cms)</td></tr>
92
93      <tr><td>Weight:</td><td>
94      <input type="text" id="dweight" name="dweight" size = "4" value ="<?php echo $row2['dweight'];?>"> (Kgs)</td></tr>
95
96      <tr><td> Image:</td><td>
97        <input type ="file" name = "picture" id = "picture" ></td></tr>
98
99          <tr><td colspan = "2"><input type="submit" name = "update" value=" Update dog record "></td></tr>
100     </table>
101     </form>
102
103
104  <hr>
105  </body>
106  </html>
```

Create a PHP script to delete a record when the delete button is clicked

```php
dogsDeletRecord.php > ...
1   <?php
2   include 'databaseConnection.php';
3
4   //$dog_Id = $_GET['didnum']; //Extract idnumber from the url
5
6   if(isset($_GET['didum']))
7       {
8       $dog_id = $_GET['didum'];
9       $sql_delete = "DELETE FROM dogsrecords   WHERE  didnum = '$dog_Id'";
10
11     $query_delete = $conn->query($sql_delete);
12
13     if($query_delete)
14       //  echo "<script>alert('Record successfully delete) <script>";
15       header("Location:displayAllrecords.php");
16
17         $conn->close();
18     } else {
19
20         echo "<script>alert('Record could not be deleted. Retry')</script>";
21       header("Location:displayAllrecords.php");
22
23   }
24
25
26 $conn->close();
27 ?>
28
```

Please consult where you have challenges
You will present this work to your tutor during the practical work