

## My Collection

A song object contains:

- Title
- Artist
- Song
- Year

My collection contains 100 initial songs that are stored on a database for my website to show and manipulate.

## My Setup

I have my original collection as a text file (included in zip) which I imported onto the database server (phpMyAdmin). I run my website and database off local host with XAMPP.

## Database

song
Title
Artist
Song
Year

<Do not directly interact with each other>

logs
Type
Action
Date

```
<html>
  <head>
    <title>Song List</title>
```

```
<style>
  body
  {
    background-image: url("background.jpg");
    font-family: verdana;
  }
  .scrollList
  {
    height:900px;
    width:600px;
    padding: 5px;
    overflow:scroll;
    margin: 0px auto 0px auto;
  }
  ::-webkit-scrollbar
  {
    width: 10px;
    height: 10px;
  }
  ::-webkit-scrollbar-track
  {
    border: 1px solid black;
    border-radius: 15px;
  }
  ::-webkit-scrollbar-thumb
  {
    background: black;
    border-radius: 10px;
  }
  td
  {
    width:640;
    vertical-align: text-top;
  }
  form, input[type="button"]
  {
    text-align: center;
  }
  input[type="text"]
  {
    border-style: solid;
    border-color: black;
    background:transparent;
  }
  .select
  {
    border-style: solid;
    border-color: black;
    background:transparent;
  }
</style>
```

```

<script>
    function showCreate()
    {
        document.getElementById("create").style.display = "block";
        document.getElementById("update").style.display = "none";
        document.getElementById("delete").style.display = "none";
    }
    function showUpdate()
    {
        document.getElementById("create").style.display = "none";
        document.getElementById("update").style.display = "block";
        document.getElementById("delete").style.display = "none";
    }
    function showDelete()
    {
        document.getElementById("create").style.display = "none";
        document.getElementById("update").style.display = "none";
        document.getElementById("delete").style.display = "block";
    }
</script>
</head>
<body>
    <?php
        include "db.php";

        class Song
        {
            public $title;
            public $artist;
            public $genre;
            public $year;
            function __construct($t, $a, $g, $y)
            {
                $this->title = $t;
                $this->artist = $a;
                $this->genre = $g;
                $this->year = $y;
            }
        }

        class CountObj
        {
            public $detail;
            public $count;
            function __construct($d, $c)
            {
                $this->detail = $d;
                $this->count = $c;
            }
        }

        global $artistFilter;

```

```
global $genreFilter;
global $decadeFilter;
```

```
global $csTitle;
global $csArtist;
global $csGenre;
global $csYear;
```

```
global $usTitle1;
global $usArtist1;
global $usGenre1;
global $usYear1;
global $usTitle2;
global $usArtist2;
global $usGenre2;
global $usYear2;
```

```
global $dsTitle;
global $dsArtist;
global $dsGenre;
global $dsYear;
```

```
$count = 0;
$filteredCount = 0;
$artistCounts = [];
$genreCounts = [];
$yearCounts = [];
$date = date('d M Y, h:i:s A');
```

```
if ($_SERVER["REQUEST_METHOD"] == "GET")
```

```
{
    if (!empty($_GET['artistFilter']))
    {
        $artistFilter = $_GET['artistFilter'];
    }
    if (!empty($_GET['genreFilter']))
    {
        $genreFilter = $_GET['genreFilter'];
    }
    if (!empty($_GET['decadeFilter']))
    {
        $decadeFilter = $_GET['decadeFilter'];
    }
}
```

```
if (!empty($_GET['csTitle']))
{
    $csTitle = $_GET['csTitle'];
}
if (!empty($_GET['csArtist']))
{
    $csArtist = $_GET['csArtist'];
}
}
```

```
if (!empty($_GET['csGenre']))
{
    $csGenre = $_GET['csGenre'];
}
if (!empty($_GET['csYear']))
{
    $csYear = $_GET['csYear'];
}

if (!empty($_GET['usTitle1']))
{
    $usTitle1 = $_GET['usTitle1'];
}
if (!empty($_GET['usArtist1']))
{
    $usArtist1 = $_GET['usArtist1'];
}
if (!empty($_GET['usGenre1']))
{
    $usGenre1 = $_GET['usGenre1'];
}
if (!empty($_GET['usYear1']))
{
    $usYear1 = $_GET['usYear1'];
}
if (!empty($_GET['usTitle2']))
{
    $usTitle2 = $_GET['usTitle2'];
}
if (!empty($_GET['usArtist2']))
{
    $usArtist2 = $_GET['usArtist2'];
}
if (!empty($_GET['usGenre2']))
{
    $usGenre2 = $_GET['usGenre2'];
}
if (!empty($_GET['usYear2']))
{
    $usYear2 = $_GET['usYear2'];
}

if (!empty($_GET['dsTitle']))
{
    $dsTitle = $_GET['dsTitle'];
}
if (!empty($_GET['dsArtist']))
{
    $dsArtist = $_GET['dsArtist'];
}
if (!empty($_GET['dsGenre']))
{

```

```

        $dsGenre = $_GET['dsGenre'];
    }
    if (empty($_GET['dsYear']))
    {
        $dsYear = $_GET['dsYear'];
    }
}

if ($csTitle != "" && $csArtist != "" && $csGenre != "" && $csYear != "")
{
    $result = mysqli_query($connection, "SELECT Title FROM songs WHERE Title = '". $csTitle. "'");
    $row = mysqli_fetch_row($result);
    if ($row[0] != $csTitle)
    {
        $query = "INSERT INTO songs VALUES ('". $csTitle. "', '". $csArtist. "', '". $csGenre. "', '". $csYear. "')";
        mysqli_query($connection, $query);
        mysqli_query($connection, "INSERT INTO logs VALUES ('C', '". $query. "', '". $date. "')");
    }
}

if ($usTitle1 == "" && $usTitle2 == "")
{
    if ($usArtist1 == "" && $usArtist2 == "")
    {
        if ($usGenre1 == "" && $usGenre2 == "")
        {
            if ($usYear1 == "" && $usYear2 == "")
            {
                #Nothing typed into update boxes by user
            }
            if ($usYear1 != "" && $usYear2 != "")
            {
                $query = "UPDATE songs SET Year = '". $usYear2. "' WHERE Year = '". $usYear1. "'";
                mysqli_query($connection, $query);
                mysqli_query($connection, "INSERT INTO logs VALUES ('U', '". $query. "', '". $date. "')");
            }
        }
    }
    if ($usGenre1 != "" && $usGenre2 != "")
    {
        if ($usYear1 == "" && $usYear2 == "")
        {
            $query = "UPDATE songs SET Genre = '". $usGenre2. "' WHERE Genre = '". $usGenre1. "'";
            mysqli_query($connection, $query);
            mysqli_query($connection, "INSERT INTO logs VALUES ('U', '". $query. "', '". $date. "')");
        }
        if ($usYear1 != "" && $usYear2 != "")
        {
            $query = "UPDATE songs SET Genre = '". $usGenre2. "', Year = '". $usYear2. "' WHERE Genre = '". $usGenre1. "' AND Year = '". $usYear1. "'";
            mysqli_query($connection, $query);
            mysqli_query($connection, "INSERT INTO logs VALUES ('U', '". $query. "', '". $date. "')");
        }
    }
}
}

```

```

    }
    if ($usArtist1 != "" && $usArtist2 != "")
    {
        if ($usGenre1 == "" && $usGenre2 == "")
        {
            if ($usYear1 == "" && $usYear2 == "")
            {
                $query = "UPDATE songs SET Artist = '$usArtist2.'" WHERE Artist = '$usArtist1.'";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("U", "'.$query.'"', "'.$date.'")');
            }
            if ($usYear1 != "" && $usYear2 != "")
            {
                $query = "UPDATE songs SET Artist = '$usArtist2.'", Year = '$usYear2.'" WHERE Artist = '$usArtist1.'" AND Year = '$usYear1.'";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("U", "'.$query.'"', "'.$date.'")');
            }
        }
        if ($usGenre1 != "" && $usGenre2 != "")
        {
            if ($usYear1 == "" && $usYear2 == "")
            {
                $query = "UPDATE songs SET Artist = '$usArtist2.'", Genre = '$usGenre2.'" WHERE Artist = '$usArtist1.'" AND Genre = '$usGenre1.'";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("U", "'.$query.'"', "'.$date.'")');
            }
            if ($usYear1 != "" && $usYear2 != "")
            {
                $query = "UPDATE songs SET Artist = '$usArtist2.'", Genre = '$usGenre2.'", Year = '$usYear2.'" WHERE Artist = '$usArtist1.'" AND Genre = '$usGenre1.'" AND Year = '$usYear1.'";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("U", "'.$query.'"', "'.$date.'")');
            }
        }
    }
}
}
if ($usTitle1 != "" && $usTitle2 != "")
{
    if ($usArtist1 == "" && $usArtist2 == "")
    {
        if ($usGenre1 == "" && $usGenre2 == "")
        {
            if ($usYear1 == "" && $usYear2 == "")
            {
                $query = "UPDATE songs SET Title = '$usTitle2.'" WHERE Title = '$usTitle1.'";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("U", "'.$query.'"', "'.$date.'")');
            }
            if ($usYear1 != "" && $usYear2 != "")
            {
                $query = "UPDATE songs SET Title = '$usTitle2.'", Year = '$usYear2.'" WHERE Title = '$usTitle1.'" AND Year = '$usYear1.'";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("U", "'.$query.'"', "'.$date.'")');
            }
        }
    }
}

```



```

    }
}
if ($usGenre1 != "" && $usGenre2 != "")
{
    if ($usYear1 == "" && $usYear2 == "")
    {
        $query = "UPDATE songs SET Title = ".$usTitle2.", Genre = ".$usGenre2." WHERE Title = ".$usTitle1." AND Genre = ".$usGenre1.""";
        mysqli_query($connection, $query);
        mysqli_query($connection, 'INSERT INTO logs VALUES ("U", ".$query.", ".$date.")');
    }
    if ($usYear1 != "" && $usYear2 != "")
    {
        $query = "UPDATE songs SET Title = ".$usTitle2.", Genre = ".$usGenre2.", Year = ".$usYear2." WHERE Title = ".$usTitle1." AND Genre = ".$usGenre1." AND Year = ".$usYear1.""";
        mysqli_query($connection, $query);
        mysqli_query($connection, 'INSERT INTO logs VALUES ("U", ".$query.", ".$date.")');
    }
}
}
if ($usArtist1 != "" && $usArtist2 != "")
{
    if ($usGenre1 == "" && $usGenre2 == "")
    {
        if ($usYear1 == "" && $usYear2 == "")
        {
            $query = "UPDATE songs SET Title = ".$usTitle2.", Artist = ".$usArtist2." WHERE Title = ".$usTitle1." AND Artist = ".$usArtist1.""";
            mysqli_query($connection, $query);
            mysqli_query($connection, 'INSERT INTO logs VALUES ("U", ".$query.", ".$date.")');
        }
        if ($usYear1 != "" && $usYear2 != "")
        {
            $query = "UPDATE songs SET Title = ".$usTitle2.", Artist = ".$usArtist2.", Year = ".$usYear2." WHERE Title = ".$usTitle1." AND Artist = ".$usArtist1." AND Year = ".$usYear1.""";
            mysqli_query($connection, $query);
            mysqli_query($connection, 'INSERT INTO logs VALUES ("U", ".$query.", ".$date.")');
        }
    }
}
if ($usGenre1 != "" && $usGenre2 != "")
{
    if ($usYear1 == "" && $usYear2 == "")
    {
        $query = "UPDATE songs SET Title = ".$usTitle2.", Artist = ".$usArtist2.", Genre = ".$usGenre2." WHERE Title = ".$usTitle1." AND Artist = ".$usArtist1." AND Genre = ".$usGenre1.""";
        mysqli_query($connection, $query);
        mysqli_query($connection, 'INSERT INTO logs VALUES ("U", ".$query.", ".$date.")');
    }
    if ($usYear1 != "" && $usYear2 != "")
    {
        $query = "UPDATE songs SET Title = ".$usTitle2.", Artist = ".$usArtist2.", Genre = ".$usGenre2.", Year = ".$usYear2." WHERE Title = ".$usTitle1." AND Artist = ".$usArtist1." AND Genre = ".$usGenre1."
AND Year = ".$usYear1.""";
        mysqli_query($connection, $query);
        mysqli_query($connection, 'INSERT INTO logs VALUES ("U", ".$query.", ".$date.")');
    }
}
}
}

```

```

}

if ($dsTitle == "" && $dsTitle == "")
{
    if ($dsArtist == "" && $dsArtist == "")
    {
        if ($dsGenre == "" && $dsGenre == "")
        {
            if ($dsYear == "" && $dsYear == "")
            {
                #Nothing typed into update boxes by user
            }
            if ($dsYear != "" && $dsYear != "")
            {
                $query = "DELETE FROM songs WHERE Year = ".$dsYear."";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "", $query.",", ".$date."");');
            }
        }
        if ($dsGenre != "" && $dsGenre != "")
        {
            if ($dsYear == "" && $dsYear == "")
            {
                $query = "DELETE FROM songs WHERE Genre = ".$dsGenre."";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "", $query.",", ".$date."");');
            }
            if ($dsYear != "" && $dsYear != "")
            {
                $query = "DELETE FROM songs WHERE Genre = ".$dsGenre." AND Year = ".$dsYear."";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "", $query.",", ".$date."");');
            }
        }
    }
}
if ($dsArtist != "" && $dsArtist != "")
{
    if ($dsGenre == "" && $dsGenre == "")
    {
        if ($dsYear == "" && $dsYear == "")
        {
            $query = "DELETE FROM songs WHERE Artist = ".$dsArtist."";
            mysqli_query($connection, $query);
            mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "", $query.",", ".$date."");');
        }
        if ($dsYear != "" && $dsYear != "")
        {
            $query = "DELETE FROM songs WHERE Artist = ".$dsArtist." AND Year = ".$dsYear."";
            mysqli_query($connection, $query);
            mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "", $query.",", ".$date."");');
        }
    }
}

```

```

    }
    if ($dsGenre != "" && $dsGenre != "")
    {
        if ($dsYear == "" && $dsYear == "")
        {
            $query = "DELETE FROM songs WHERE Artist = ".$dsArtist." AND Genre = ".$dsGenre."";
            mysqli_query($connection, $query);
            mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "'.$query.'"', "'.$date.'")');
        }
        if ($dsYear != "" && $dsYear != "")
        {
            $query = "DELETE FROM songs WHERE Artist = ".$dsArtist." AND Genre = ".$dsGenre." AND Year = ".$dsYear."";
            mysqli_query($connection, $query);
            mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "'.$query.'"', "'.$date.'")');
        }
    }
}
}
if ($dsTitle != "" && $dsTitle != "")
{
    if ($dsArtist == "" && $dsArtist == "")
    {
        if ($dsGenre == "" && $dsGenre == "")
        {
            if ($dsYear == "" && $dsYear == "")
            {
                $query = "DELETE FROM songs WHERE Title = ".$dsTitle."";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "'.$query.'"', "'.$date.'")');
            }
            if ($dsYear != "" && $dsYear != "")
            {
                $query = "DELETE FROM songs WHERE Title = ".$dsTitle." AND Year = ".$dsYear."";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "'.$query.'"', "'.$date.'")');
            }
        }
    }
    if ($dsGenre != "" && $dsGenre != "")
    {
        if ($dsYear == "" && $dsYear == "")
        {
            $query = "DELETE FROM songs WHERE Title = ".$dsTitle." AND Genre = ".$dsGenre."";
            mysqli_query($connection, $query);
            mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "'.$query.'"', "'.$date.'")');
        }
        if ($dsYear != "" && $dsYear != "")
        {
            $query = "DELETE FROM songs WHERE Title = ".$dsTitle." AND Genre = ".$dsGenre." AND Year = ".$dsYear."";
            mysqli_query($connection, $query);
            mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "'.$query.'"', "'.$date.'")');
        }
    }
}
}

```

```

    }
    if ($dsArtist != "" && $dsArtist != "")
    {
        if ($dsGenre == "" && $dsGenre == "")
        {
            if ($dsYear == "" && $dsYear == "")
            {
                $query = "DELETE FROM songs WHERE Title = ".$dsTitle." AND Artist = ".$dsArtist."";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "'.$query.'" , "'.$date.'")');
            }
            if ($dsYear != "" && $dsYear != "")
            {
                $query = "DELETE FROM songs WHERE Title = ".$dsTitle." AND Artist = ".$dsArtist." AND Year = ".$dsYear."";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "'.$query.'" , "'.$date.'")');
            }
        }
        if ($dsGenre != "" && $dsGenre != "")
        {
            if ($dsYear == "" && $dsYear == "")
            {
                $query = "DELETE FROM songs WHERE Title = ".$dsTitle." AND Artist = ".$dsArtist." AND Genre = ".$dsGenre."";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "'.$query.'" , "'.$date.'")');
            }
            if ($dsYear != "" && $dsYear != "")
            {
                $query = "DELETE FROM songs WHERE Title = ".$dsTitle." AND Artist = ".$dsArtist." AND Genre = ".$dsGenre." AND Year = ".$dsYear."";
                mysqli_query($connection, $query);
                mysqli_query($connection, 'INSERT INTO logs VALUES ("D", "'.$query.'" , "'.$date.'")');
            }
        }
    }
}
}
}

```

```

?>
<table>
<tr>
<td>
<form name = "filter" id = "filter" action = "SongList2.php" method = "GET">
<h3>Artist filter</h3>
<input type = "text" name = "artistFilter" id = "artistFilter" value = "<?php echo $artistFilter;?>" style="width: 500px;">
<h3>Genre filter</h3>
<input type = "text" name = "genreFilter" id = "genreFilter" value = "<?php echo $genreFilter;?>" style="width: 500px;">
<h3>Year filter</h3>
<select name = "decadeFilter" class = "select" id = "decadeFilter" style="width: 500px;">
<option value = "">All years</option>
<option value = "1960">1960-1969</option>
<option value = "1970">1970-1979</option>
<option value = "1980">1980-1989</option>
<option value = "1990">1990-1999</option>

```

```

        <option value = "2000">2000-2009</option>
        <option value = "2010">2010-2019</option>
        <option value = "2020">2020-2029</option>
    </select>
    <p align = "center">
        <input type = "submit">
    </p>
</form>
<br><br>
<div style = "text-align: center;">
    <input type = "button" value = "Create Song" onClick = "showCreate()">
    <input type = "button" value = "Update Song" onClick = "showUpdate()">
    <input type = "button" value = "Delete Song" onClick = "showDelete()">
</div>

<form name = "create" id = "create" action = "SongList2.php" method = "GET">
    <h3>Song Name</h3>
    <input type = "text" name = "csTitle" id = "cstitle" value = "<?php echo $csTitle;?>" style="width: 500px;">
    <h3>Song Artist</h3>
    <input type = "text" name = "csArtist" id = "csArtist" value = "<?php echo $csArtist;?>" style="width: 500px;">
    <h3>Song Genre</h3>
    <input type = "text" name = "csGenre" id = "csGenre" value = "<?php echo $csGenre;?>" style="width: 500px;">
    <h3>Song Year</h3>
    <input type = "text" name = "csYear" id = "csYear" value = "<?php echo $csYear;?>" style="width: 500px;">
    <p align = "center">
        <input type = "submit" value = "Create">
    </p>
</form>

<form name = "update" id = "update" action = "SongList2.php" method = "GET" style="display: none;">
    <h3>Song Name</h3>
    <input type = "text" name = "usTitle1" id = "usTitle1" value = "<?php echo $usTitle1;?>" style="width: 200px;">
    -->
    <input type = "text" name = "usTitle2" id = "usTitle2" value = "<?php echo $usTitle2;?>" style="width: 200px;">
    <h3>Song Artist</h3>
    <input type = "text" name = "usArtist1" id = "usArtist1" value = "<?php echo $usArtist1;?>" style="width: 200px;">
    -->
    <input type = "text" name = "usArtist2" id = "usArtist2" value = "<?php echo $usArtist2;?>" style="width: 200px;">
    <h3>Song Genre</h3>
    <input type = "text" name = "usGenre1" id = "usGenre1" value = "<?php echo $usGenre1;?>" style="width: 200px;">
    -->
    <input type = "text" name = "usGenre2" id = "usGenre2" value = "<?php echo $usGenre2;?>" style="width: 200px;">
    <h3>Song Year</h3>
    <input type = "text" name = "usYear1" id = "usYear1" value = "<?php echo $usYear1;?>" style="width: 200px;">
    -->
    <input type = "text" name = "usYear2" id = "usYear2" value = "<?php echo $usYear2;?>" style="width: 200px;">
    <p align = "center">
        <input type = "submit" value = "Update">
    </p>
</form>

<form name = "delete" id = "delete" action = "SongList2.php" method = "GET" style="display: none;">

```

```

        <h3>Song Name</h3>
        <input type = "text" name = "dsTitle" id = "dsTitle" value = "" style="width: 500px;">
        <h3>Song Artist</h3>
        <input type = "text" name = "dsArtist" id = "dsArtist" value = "" style="width: 500px;">
        <h3>Song Genre</h3>
        <input type = "text" name = "dsGenre" id = "dsGenre" value = "" style="width: 500px;">
        <h3>Song Year</h3>
        <input type = "text" name = "dsYear" id = "dsYear" value = "" style="width: 500px;">
        <p align = "center">
            <input type = "submit" value = "Delete">
        </p>
    </form>
    <br><br>
    <div class = "scrollList" style = "height:190px;">
        <?php
            $c = mysqli_num_rows(mysqli_query($connection, "SELECT * FROM logs"));
            $q = mysqli_query($connection, "SELECT * FROM logs");
            for ($i = 0; $i < $c; $i++)
            {
                $r = mysqli_fetch_array($q);
                echo $r['Date'];
                ?> <br> <?php
                echo " - ". $r['Action'];
                ?> <br> <br> <?php
            }
        ?>
    </div>
</td>
<td>
        <h3 align = "center">Song List</h3>
        <div class = "scrollList">
            <?php
                $year1 = 0000;
                $year2 = 9999;
                if ($decadeFilter != "")
                {
                    if ($decadeFilter == "1960")
                    {
                        $year1 = 1960;
                        $year2 = 1969;
                    }
                    if ($decadeFilter == "1970")
                    {
                        $year1 = 1970;
                        $year2 = 1979;
                    }
                    if ($decadeFilter == "1980")
                    {
                        $year1 = 1980;
                        $year2 = 1989;
                    }
                    if ($decadeFilter == "1990")

```

```

    {
        $year1 = 1990;
        $year2 = 1999;
    }
    if ($decadeFilter == "2000")
    {
        $year1 = 2000;
        $year2 = 2009;
    }
    if ($decadeFilter == "2010")
    {
        $year1 = 2010;
        $year2 = 2019;
    }
    if ($decadeFilter == "2020")
    {
        $year1 = 2020;
        $year2 = 2029;
    }
}
$query2 = "";
$count = mysqli_num_rows(mysqli_query($connection, "SELECT title, artist, genre, year FROM songs"));
if ($artistFilter == "")
{
    if ($genreFilter == "")
    {
        if ($decadeFilter == "")
        {
            $query2 = mysqli_query($connection, "SELECT title, artist, genre, year FROM songs");
        }
        else # $decadeFilter != ""
        {
            $query2 = mysqli_query($connection, "SELECT title, artist, genre, year FROM songs WHERE year >= ".$year1." AND year <= ".$year2."");
        }
    }
    else # $genreFilter != ""
    {
        if ($decadeFilter == "")
        {
            $query2 = mysqli_query($connection, "SELECT title, artist, genre, year FROM songs WHERE genre = ".$genreFilter."");
        }
        else # $decadeFilter != ""
        {
            $query2 = mysqli_query($connection, "SELECT title, artist, genre, year FROM songs WHERE genre = ".$genreFilter." AND year >= ".$year1." AND year <= ".$year2."");
        }
    }
}
}
else # $artistFilter != ""
{
    if ($genreFilter == "")
    {
        if ($decadeFilter == "")

```

```

        {
            $query2 = mysqli_query($connection, "SELECT title, artist, genre, year FROM songs WHERE artist = ".$artistFilter."");
        }
        else # $decadeFilter != ""
        {
            $query2 = mysqli_query($connection, "SELECT title, artist, genre, year FROM songs WHERE artist = ".$artistFilter." AND year >= ".$year1." AND year <= ".$year2."");
        }
    }
    else # $genreFilter != ""
    {
        if ($decadeFilter == "")
        {
            $query2 = mysqli_query($connection, "SELECT title, artist, genre, year FROM songs WHERE artist = ".$artistFilter." AND genre = ".$genreFilter."");
        }
        else # $decadeFilter != ""
        {
            $query2 = mysqli_query($connection, "SELECT title, artist, genre, year FROM songs WHERE artist = ".$artistFilter." AND genre = ".$genreFilter." AND year >= ".$year1." AND year <=
".$year2."");
        }
    }
}

$songs = [];
for ($i = 0; $i < $count; $i++)
{
    $row = mysqli_fetch_array($query2);
    echo mysqli_error($connection);
    if ($row["title"] == "")
    {
        break;
    }
    $filteredCount++;
    $sObj = new Song($row["title"], $row["artist"], $row["genre"], $row["year"]);
    array_push($songs, $sObj);
    $i++;
    echo "Song ". $i . ":";
    ?> <br> <?php
    echo " - ". $sObj->title;
    ?> <br> <?php
    echo " - ". $sObj->artist;
    ?> <br> <?php
    echo " - ". $sObj->genre;
    ?> <br> <?php
    echo " - ". $sObj->year;
    ?> <br> <br> <?php
    $i--;

    $artistCheck = false;
    $genreCheck = false;
    $yearCheck = false;

    for ($x = 0; $x < count($artistCounts); $x++)

```



```

        {
            if ($artistCounts[$x]->detail == $sObj->artist)
            {
                $artistCheck = true;
                $artistCounts[$x]->count++;
            }
        }
        for ($x = 0; $x < count($genreCounts); $x++)
        {
            if ($genreCounts[$x]->detail == $sObj->genre)
            {
                $genreCheck = true;
                $genreCounts[$x]->count++;
            }
        }
        for ($x = 0; $x < count($yearCounts); $x++)
        {
            if ($yearCounts[$x]->detail == $sObj->year)
            {
                $yearCheck = true;
                $yearCounts[$x]->count++;
            }
        }

        if (!$artistCheck)
        {
            $cObj = new CountObj($sObj->artist, 1);
            array_push($artistCounts, $cObj);
        }
        if (!$genreCheck)
        {
            $cObj = new CountObj($sObj->genre, 1);
            array_push($genreCounts, $cObj);
        }
        if (!$yearCheck)
        {
            $cObj = new CountObj($sObj->year, 1);
            array_push($yearCounts, $cObj);
        }
    }
}
?>
</div>
</td>
<td>
<?php
function customSort($x, $y)
{
    if ($x->count == $y->count)
    {
        return 0;
    }
    if ($x->count > $y->count)

```

```

        {
            return -1;
        }
        if ($x->count < $y->count)
        {
            return 1;
        }
    }
    ?>
<h3 align = "center">Filters and their Counts</h3>
<div class = "scrollList" style = "height:200px;">
    <?php
        usort($artistCounts, "customSort");
        foreach ($artistCounts as $x)
        {
            echo $x->detail." count: ".$x->count."<br>";
        }
    ?>
</div> <br>
<div class = "scrollList" style = "height:200px;">
    <?php
        usort($genreCounts, "customSort");
        foreach ($genreCounts as $x)
        {
            echo $x->detail." count: ".$x->count."<br>";
        }
    ?>
</div> <br>
<div class = "scrollList" style = "height:200px;">
    <?php
        usort($yearCounts, "customSort");
        foreach ($yearCounts as $x)
        {
            echo $x->detail." count: ".$x->count."<br>";
        }
    ?>
</div>
<?php
    echo "<br>Count of all songs: ".$filteredCount;
    ?>
</td>
</tr>
</table>
</body>
</html>

```