

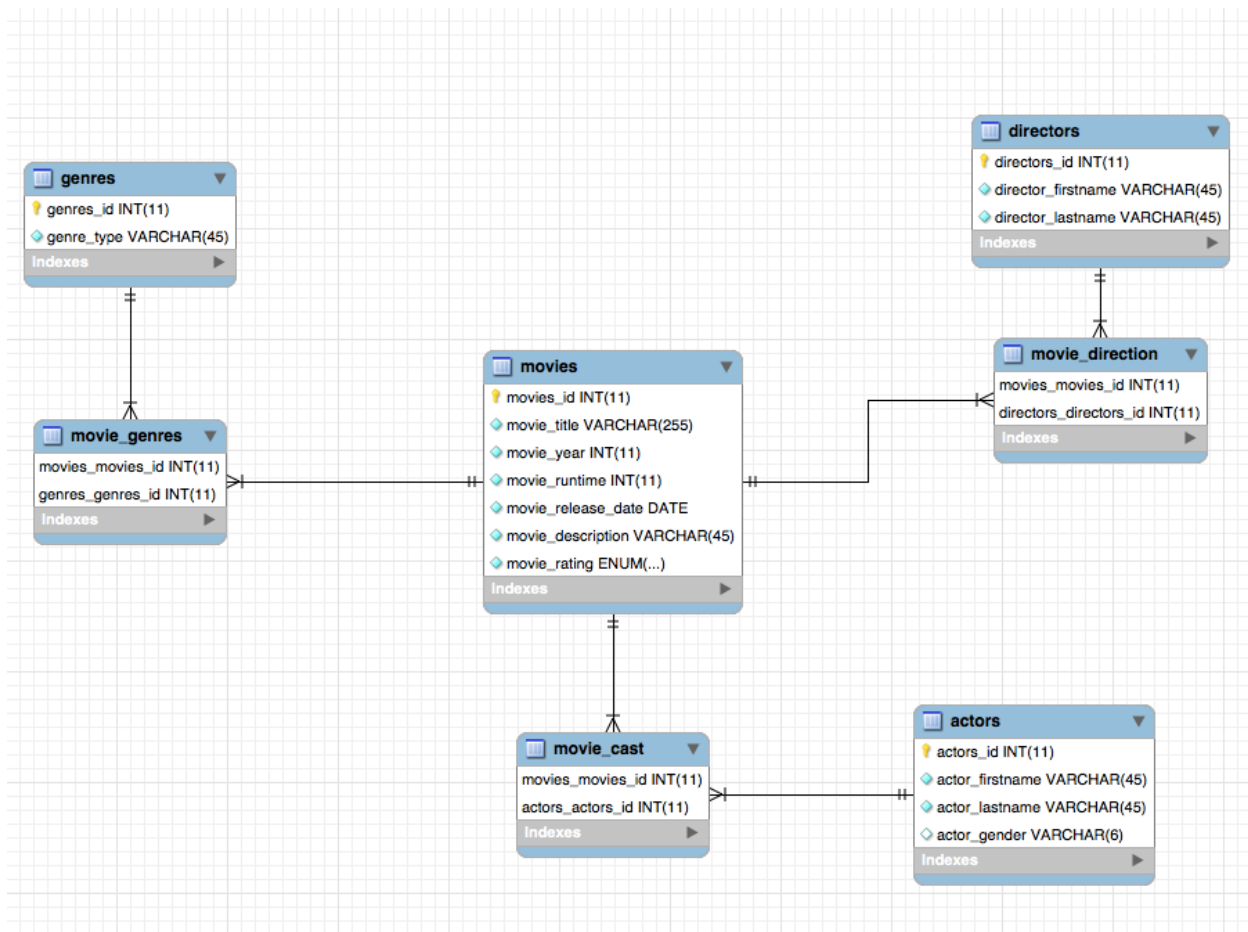
## Creating your Movie database structure

1. Pull up a terminal window
2. Log in initially as root

```
/Applications/MAMP/Library/bin/mysql --host=localhost -uroot -proot
```

We will only use this root login when creating the database...as it can be used to do anything to any of the databases on the system.

3. We are going to run a file that contains SQL statements that will create the database structure below.



4. Your command prompt should look like  
**mysql>**
5. You going to make it look like this:  
**mysql> source /Users/yourhomefolder/thepathtoyoursql/movies\_db.sql**

6. At this stage, you should have a database structure to hold your data.  
If you remember from last week, we should be able to prove this by issue the command:

**SHOW DATABASES;**

```
[mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| movies_db |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.00 sec)
```

7. We could now tell it which DB we want to use:

**USE movies\_db;**

8. If we wanted to see all our new tables we could do this:

**SHOW TABLES;**

```
[mysql> SHOW TABLES;
+-----+
| Tables_in_movies_db |
+-----+
| actors |
| directors |
| genres |
| movie_cast |
| movie_direction |
| movie_genres |
| movies |
+-----+
7 rows in set (0.00 sec)
```

9. And if we wanted to have a look at the structure of the actors table we could:

**SHOW COLUMNS FROM actors;**

```
[mysql> SHOW COLUMNS FROM actors;
```

Field	Type	Null	Key	Default	Extra
actors_id	int(11)	NO	PRI	NULL	auto_increment
actor_firstname	varchar(45)	NO		NULL	
actor_lastname	varchar(45)	NO		NULL	
actor_gender	varchar(6)	NO		NULL	
actor_birthyear	int(11)	NO		NULL	

```
5 rows in set (0.00 sec)
```

10. And if we wanted to actually add an actor to the actors table we could do this:

**INSERT INTO actors (actor\_firstname, actor\_lastname, actor\_gender, actor\_birthyear)  
VALUES ( 'Sean' , 'Connery' , 'Male', 1930 );**

11. Let's prove that that data got entered into the actors table by running a SELECT query

**SELECT \* FROM actors;**

```
[mysql> SELECT * FROM actors;
```

actors_id	actor_firstname	actor_lastname	actor_gender	actor_birthyear
1	Sean	Connery	Male	1930

```
1 row in set (0.00 sec)
```

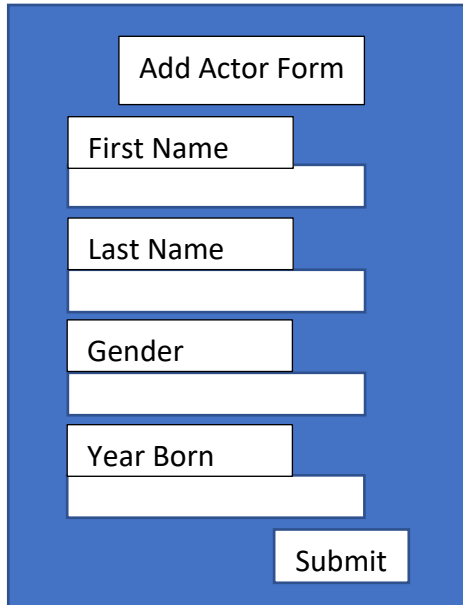
12. While we could enter all our data at the command line...it would be a bit painful.

13. Let's use PHP to help us create a way to more easily enter our data into our database.

First let's limit the database that PHP can talk to.

**GRANT ALL PRIVILEGES ON movies\_db.\* TO 'youruser'@'localhost' IDENTIFIED BY  
'yourpassword';**

14. Now let's switch gears and create a page that will allow us to add an actor via an html/php page. (you can call this **add\_actor\_form.html**)



The diagram shows a blue rectangular box representing a web form. At the top center of the box is a white rectangular label that reads "Add Actor Form". Below this label, there are four white rectangular input fields stacked vertically. The first field is labeled "First Name", the second "Last Name", the third "Gender", and the fourth "Year Born". Each label is positioned to the left of its corresponding input field. At the bottom right of the blue box is a white rectangular button labeled "Submit".

15. In the form tag for this page

`method='post' action='add_actor.php'`

Make sure your html form fields have their name set to:

**firstname**

**lastname**

**gender**

**byear**

## 16. Create the add\_actor.php file

```
<?php
    $servername = "localhost"; $username = "webuser"; $password = "secret1234";
    $dbname = "movies_db";

    // Check connection
    $conn = mysqli_connect($servername, $username, $password, $dbname);

    // Check connection
    if (!$conn) {
        die("Connection failed: " . mysqli_connect_error());
    }
    else{
        echo "<h1>Connected successfully</h1>";

        $sql = "INSERT INTO actors (actor_firstname, actor_lastname,
actor_gender,actor_birthyear)
        VALUES
        ('".$_POST["firstname"]."', '".$_POST["lastname"]."', '".$_POST["gender"]."', '".$_POST["byear
        "]."')";

        $res2 = mysqli_query($conn,$sql);

        if($res2 === TRUE){
            echo "New record created successfully";
        }
        else{
            echo "Insert failed";
        }
    }
?>
```

## Testing your solution

Put both of these files into your private folder under the MAMP server. You can then pull up the html file under localhost, fill out the form and click the submit button.