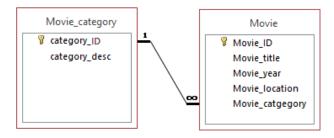
Database MDI Tutorial - Part 1

Movies database

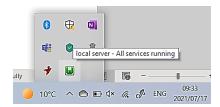
In this first part of a number of a tutorials, we will start to create a MySQL database that will contain a table with list of movies as well as a table that will contain the categories according to which the movies will be classified. The primary key of the movie categories table will then be used as a foreign key in the movies table.

An Entity Relationship Diagram shows the relationship between the tables and the various fields and tables.



Step 1 Open the WAMPserver phpAdmin MySQL Console

Open the WAMPserver phpAdmin MySQL Console by clicking on the licon in the windows tray



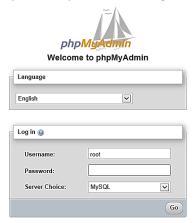
If the icon does not appear in the tray, start the server by clicking on the icon in start menu



• Click on the phpAdmin option



• If you set a password during setup enter it and click on Go otherwise just leave it blank and click on Go



Step 2 Create the database

• We want to create a database called movies so click on the Databases link at the top of the screen



• Enter movies in the textbox and click on the Create button



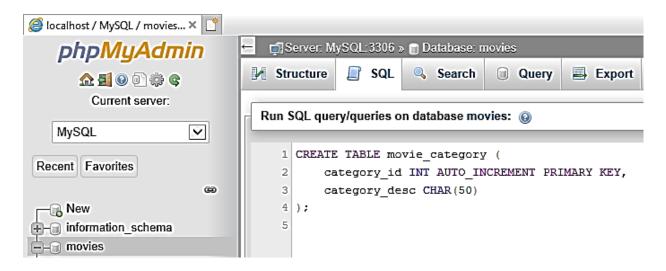
• The database will now appear in the list of databases for this server in the left pane



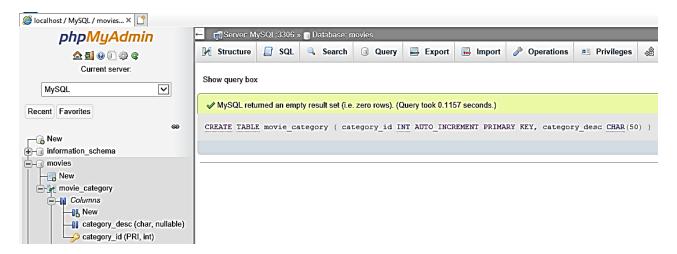
Step 3 Create a table for movie categories

- We want to create a table called movie_category that will contain two fields, so enter it in the textboxes as per the screenshot as below and click on the Go button:
- Click on the SQL link and enter the following statement to create a table called movie_category that will contain the description of categories of movies

```
CREATE TABLE movie_category (
          category_id INT AUTO_INCREMENT PRIMARY KEY,
          category_desc CHAR(50)
);
```



Click on the Go button to execute the query. The following screen should appear to indicate that the query
executed successfully and the movie_category table and the fields should be displayed within the movie
database in the left pane

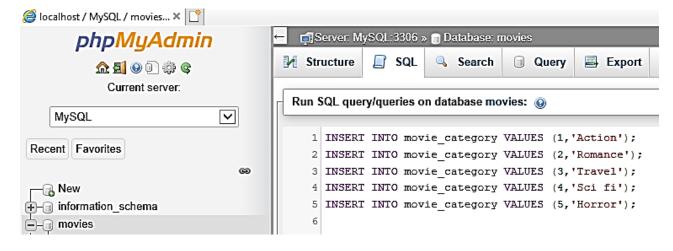


- We created a primary key called category_id that will be an integer value and that will increase automatically each time a new record is added
- We also added a description field called category desc that can be a maximum of 50 characters

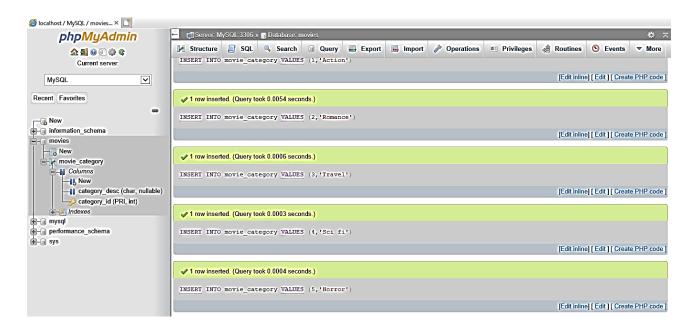
Step 4 Add records into the movie_category table

- We will add records into the table use SQL statements for simplicity, of course in a full application you would allow a user to add records into the table using a window with widgets
- Add a view records into the movie_category table by entering the following statements in the SQL tab
 and clicking on the Go button

```
INSERT INTO movie_category VALUES (1,'Action');
INSERT INTO movie_category VALUES (2,'Romance');
INSERT INTO movie_category VALUES (3,'Travel');
INSERT INTO movie_category VALUES (4,'Sci fi');
INSERT INTO movie_category VALUES (5,'Horror');
```

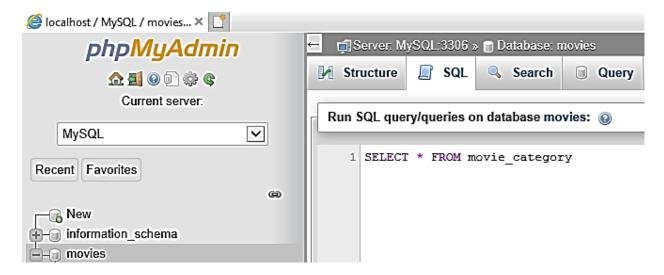


The following output should appear to confirm that the statements were executed

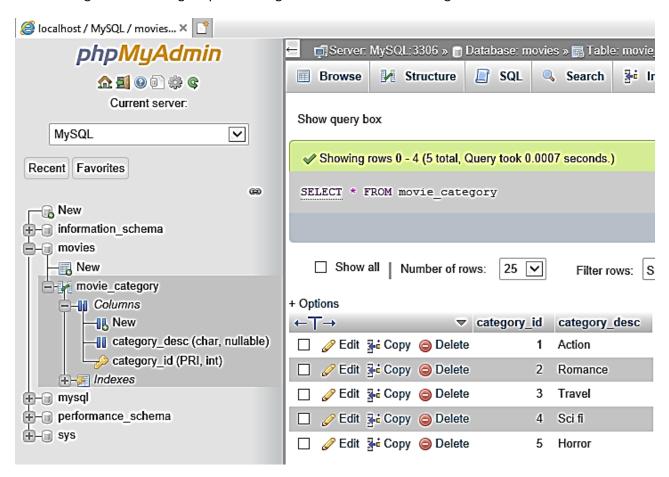


 Use a select statement to check the contents of the movie_category table by adding the following statement in the SQL tab

```
SELECT * FROM movie_category
```



You should get the following output showing that all five the movie categories have been added to the table



Step 5 Create a table for movies

Enter the following statement in the SQL to create a table called movie that will contain the details of
movies and click the Go button

```
CREATE TABLE movie (
    movie_id INT AUTO_INCREMENT PRIMARY KEY,
    movie_title CHAR(250),
    movie_year INT,
    movie_location CHAR(50),
    movie_category_id INT,
    FOREIGN KEY (movie_category_id) REFERENCES movie_category(category_id));
```

You should get this result:



- We created a primary key called movie_id that will be an integer value that will be increased
 automatically each time a new record is added
- We added a title field called movie_title that can be a maximum of 250 characters that will contain the title of the movie
- We added a year field called movie_year that will be an integer number containing the year that the
 movie was released
- We added a location field called movie_location that can be a maximum of 50 characters where the user can specify where the movie is stored.
- The last field movie_category_id will be an integer number containing the integer number corresponding to the movie category that we want to classify this movie as. This is a foreign key, with the category_id field in the movie_category table. We specify this with the foreign key statement