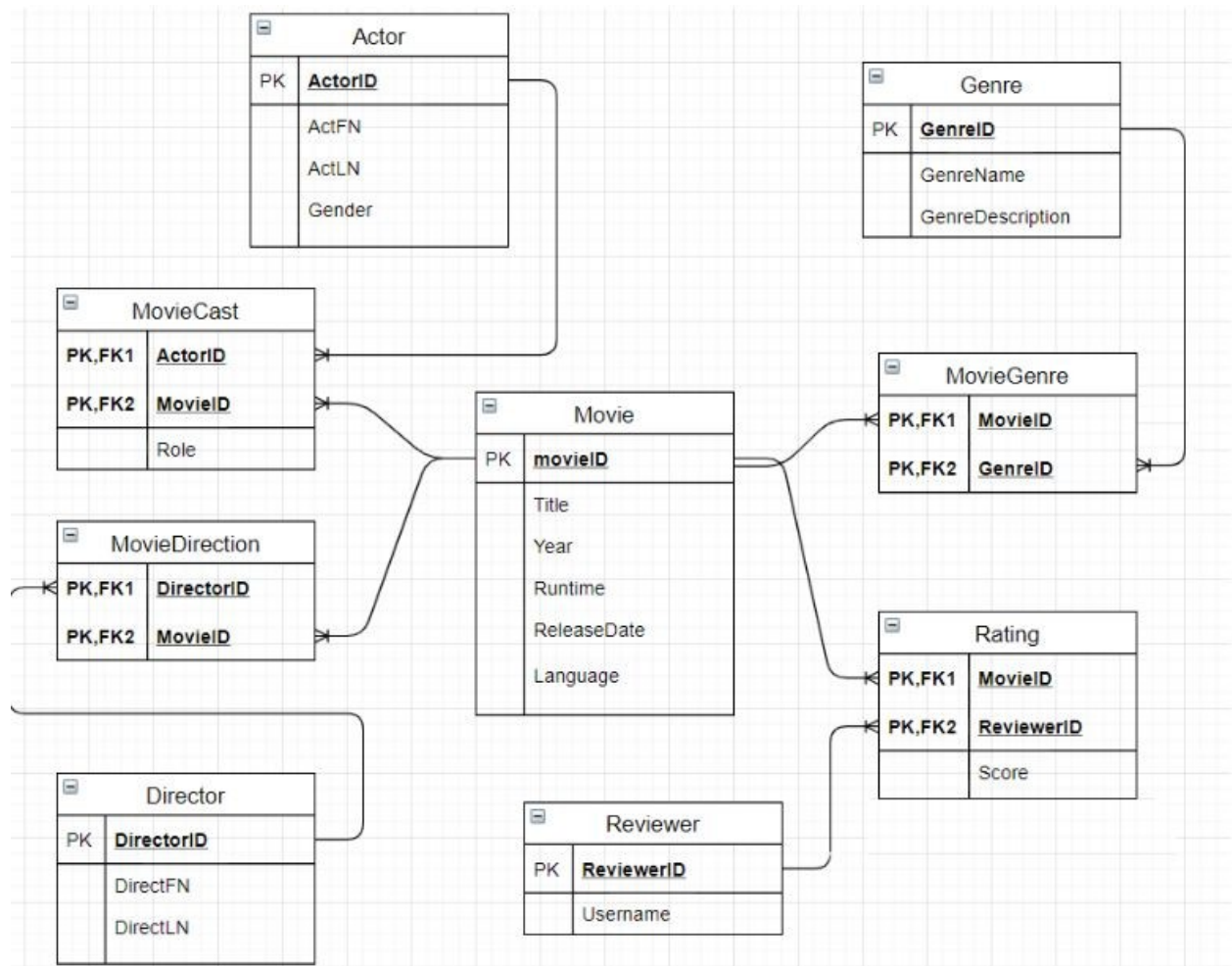Slingerr
CS 4332 Assign 9

In the following screenshots is a mock-up of all the tables that will make up this movie review database based on the requirements from project 6. These tables have been designed to meet the requirements of normalization in order to achieve the second normal form for each table.

Movie table

Movie ID	Movie Title	Year	Runtime (minutes)	Rlease Date	Language
101	Evil Dead	1983	117	April 24	English
102	Evil Dead II	1987	84	March 13	English
103	Army of Darkne	1992	96	February 19	English
104	Taxi Driver	1976	114	February 8	English
105	Alien	1979	117	May 25	English
106	Pan's Labryinth	2006	115	December 29	Spanish

Actor

Actor ID	First Name	Last Name	Gender
10001	Bruce	Campbell	Male
10002	Robert	De Niro	Male
10003	Sigourney	Weaver	Female
10004	Doug	Jones	Male

MovieCAst

Actor ID	Movie ID	Role
10001	101	Ash Williams
10004	106	Pale Man
10003	105	Ellen Ripley
10002	104	Travis Bickle

Director

Director ID	First Name	Last Name
1102	Martin	Scorscese
1103	Tim	Burton
1104	Ridley	Scott
1105	Sam	Raimi

MovieDirection

DirectorID	MovieID
1102	104
1105	101

Genre

Genre ID	Genre Name	Description
110	Drama	Dramatic movies with a serious tone
111	Sci-Fi	Movies based in scientific fiction, spac
112	Horror	Spooky and scary films

MovieGenres

GenreID	MovieID
110	104
112	101

Reviewer

Reviewer ID	Username
1	moviebob112
2	mendor223

Rating

Reviewer ID	Movie ID	Review Score
1	101	7
1	102	8
1	103	6
2	101	4
2	104	6
2	105	9

Below is the E/R diagram of the database. The diagram highlights each record's primary key and if they contain any foreign keys. It also depicts each relationship of the tables which all fall under the one to many type of relationship.   The Rating relation was revised since the sql COUNT() function made the totalReviews attribute redundant.

The following are all the pages for input and output in the movie database application. Each page is written in php and set up to execute the sql queries that are written out below.

localhost/public/public/addActorDirector.php

Movie Database

Add New Actor/Director

◉ Actor ○ Director

First Name

Harrison

Last Name

Ford

◉ Male ○ Female

Submit

Actor Harrison Ford was successfully add!

---

localhost/public/public/addActorDirector.php

Movie Database

Add New Actor/Director

◉ Actor ○ Director

First Name

Ridley

Last Name

Scott

◉ Male ○ Female

Submit

Director Ridley Scott was successfully add!

Movie Database

Input New Information

Add Person
Add Movie
Add Movie Actor
Add Movie Director
Create Account
Leave Review

Browse Information

Actor Information
Movie Information
Genre Information
Movie Cast Information
Top Reviews

Search

Search For Movie
Search For Actor
Search For Director
Search For User

Admin

Check User Information

Add New Movie

Title

Blade Runner

Release Date

06/25/1982

Runtime (Minutes)

117

MPAA Rating

R

Genre

Science Fiction

Language

English

Submit

Blade Runner was successfully added!

Movie Database

Add an Actor's Role

Movie
Blade Runner

Actor
Harrison Ford

Role
Rick Deckard

Submit

Rick Deckard was successfully added!

Movie Database

Add New Reviewer

Username
mendorReviews

Submit

mendorReviews was successfully added!

Rate A Movie

Movie
Blade Runner

Reviewer
mendorReviews

Score
1 2 3 ● 4 5

Submit

Review was successfully added!

Navigation Sidebar

Movie Database

Input New Information
Add Person
Add Movie
Add Movie Actor
Add Movie Director
Create Account
Leave Review

Browse Information
Actor Information
Movie Information
Genre Information
Movie Cast Information
Top Reviews

Search
Search For Movie
Search For Actor
Search For Director
Search For User

Admin
Check User Information

Add Movie's Director

Movie
Evil Dead

Director
Sam Raimi

Submit

Direction was successfully added!

Movie Database

Actor List

Name	Gender	Number of Movies
Bruce Campbell	M	3
Robert De Niro	M	1
Harrison Ford	M	1
Sigourney Weaver	F	1

Movie Database

Movie List

Title	Rating	Runtime	Release Date	Director
Alien	R	117	1979-05-25	Ridley Scott
Army of Darkness	R	96	1992-02-19	Sam Raimi
Blade Runner	R	117	1982-06-25	Ridley Scott
Evil Dead	R	117	1983-04-24	Sam Raimi
Evil Dead II	R	84	1987-03-13	Sam Raimi
Taxi Driver	R	114	1976-02-08	Martin Scorscese

Screenshot 1 — Genre Information

localhost/public/public/genre.php

Movie Database

Genre Information

Genre	Movies	Description
Action	0	Action films usually include high energy, big-budget physical stunts and chases, possibly with rescues, battles, fights, escapes, destructive crises, non-stop motion, spectacular rhythm and pacing, and adventurous, often two-dimensional 'good-guy' heroes battling 'bad guys' - all designed for pure audience escapism.
Comedy	0	Comedies are light-hearted plots consistently and deliberately designed to amuse and provoke laughter by exaggerating the situation, the language, action, relationships and characters
Crime	0	Crime films are developed around the sinister actions of criminals or mobsters, particularly bankrobbers, underworld figures, or ruthless hoodlums who operate outside the law, stealing and murdering their way through life.
Drama	1	Dramas are serious, plot-driven presentations, portraying realistic characters, settings, life situations, and stories involving intense character development and interaction.
Fantasy	0	Fantasies take the audience to dark netherworld places (or another dimension) with mythical creatures, where events are unlikely to occur in real life - they transcend the bounds of human possibility and physical laws.
Horror	3	Horror films are designed to frighten and to invoke our hidden worst fears, often in a terrifying, shocking finale, while captivating and entertaining us at the same time in a cathartic experience.
Romance	0	These are love stories, or affairs of the heart that center on passion, emotion, and the romantic, affectionate involvement of the main characters (usually a leading man and lady), and the journey that their love takes through courtship or marriage.
Science Fiction	2	Sci-fi films are often quasi-scientific, visionary and imaginative - complete with heroes, aliens, distant planets, impossible quests, improbable settings, fantastic places, great dark and shadowy villains, futuristic technology, unknown and unknowable forces, and extraordinary monsters.
Thriller	0	Thriller and suspense films are virtually synonymous and interchangeable categorizations. They are types of films known to promote intense excitement, suspense, a high level of anticipation, ultra-heightened expectation, uncertainty, anxiety, and nerve-wracking tension.
Western	0	Westerns are the major defining genre of the American film industry - a eulogy to the early days of the expansive American frontier. They are one of the oldest, most enduring genres with very recognizable plots, elements, and characters (six-guns, horses, dusty towns and trails, cowboys, Indians, etc.).

Screenshot 2 — Top Reviews

localhost/public/public/reviewList.php

Movie Database

Top Reviews

Movie	Review Score	Review Count
Alien	4.5	2
Army of Darkness	3	2
Blade Runner	3.5	4
Evil Dead	3.5	2
Evil Dead II	4.5	2

Movie Database

Input New Information

Add Person
Add Movie
Add Movie Actor
Add Movie Director
Create Account
Leave Review

Browse Information

Actor Information
Movie Information
Genre Information
Movie Cast Information
Top Reviews

Search

Search For Movie
Search For Actor
Search For Director
Search For User

Admin

Check User Information

Select a movie to look up a cast

Movie

Evil Dead II ▾

Submit

Results

Actor	Role
Bruce Campbell	Ash Williams
Denise Bixler	Linda
Ted Raimi	Possessed Henrietta
Dan Hicks	Jake
Kassie DePaiva	Bobby Joe

Movie Database

Input New Information
Add Person
Add Movie
Add Movie Actor
Add Movie Director
Create Account
Leave Review

Browse Information
Actor Information
Movie Information
Genre Information
Movie Cast Information
Top Reviews

Search
Search For Movie
Search For Actor
Search For Director
Search For User

Admin
Check User Information

Find Movie based on title

Movie

Army of Darkness

Submit

Results

Title	Director	Genre	Rating	Runtime	Release Date	Language
Army of Darkness	Sam Raimi	Horror	R	96	1992-02-19	English

Movie Database

Input New Information
Add Person
Add Movie
Add Movie Actor
Add Movie Director
Create Account
Leave Review

Browse Information
Actor Information
Movie Information
Genre Information
Movie Cast Information
Top Reviews

Search
Search For Movie
Search For Actor
Search For Director
Search For User

Admin
Check User Information

Search for Actor

Actor

Bruce Campbell

Submit

Roles

Title	Role
Evil Dead	Ash Williams
Evil Dead II	Ash Williams
Army of Darkness	Ash Williams

English representations of the sql queries followed by their sql interpretation

1. Select a movie and list all the actors in the movie and the role they were cast in.
    a. In the case of the sql example movie id is 3, but the webpage is setup to pull the movie id of the user's selection

```sql
1 •  SELECT CONCAT(a.actFN, ' ', a.actLN) AS actName, b.title, c.role
2                 FROM actor a, movie b, moviecast c
3                 WHERE c.movieID = '3' AND c.actorID = a.actorID AND c.movieID = b.movieID
```

Limit to 1000 rows

Result Grid | Filter Rows: | Export: | Wrap Cell Content: 𝙸𝐀

actName	title	role
Bruce Campbell	Evil Dead II	Ash Williams
Denise Bixler	Evil Dead II	Linda
Ted Raimi	Evil Dead II	Possessed Henrietta
Dan Hicks	Evil Dead II	Jake
Kassie DePaiva	Evil Dead II	Bobby Joe

2. Select a director and list all the movies they directed along with their release date in order of their release.
   a. In the case of the sql example director id is 2, but the webpage is setup to pull the director id of the selection

```sql
1 •  SELECT CONCAT( director.directFN, ' ', director.directLN) AS directName , movie.title, movie.releastDate
2                 FROM director LEFT JOIN moviedirection ON moviedirection.directorID = director.directorID
3                 LEFT JOIN movie ON movie.movieID = movieDirection.movieID
4                 WHERE director.directorID = '2' ORDER BY movie.releastDate ASC
```

Limit to 1000 rows

Result Grid | Filter Rows: | Export: | Wrap Cell Content: 𝙸𝐀

directName	title	releastDate
Sam Raimi	Evil Dead	1983-04-24
Sam Raimi	Evil Dead II	1987-03-13
Sam Raimi	Army of Darkness	1992-02-19

3. Select an actor and list all the movies they have been in and the role they portrayed in each film
   a. In the case of the sql example actorid is 2, but the webpage is setup to pull the actor id of the selection

```
SELECT CONCAT( actor.actFN, ' ', actor.actLN) AS actName , movie.title, moviecast.role
                FROM actor LEFT JOIN moviecast ON moviecast.actorID = actor.actorID
                LEFT JOIN movie ON movie.movieID = moviecast.movieID
                WHERE actor.actorID = '2'
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

actName	title	role
Bruce Campbell	Evil Dead	Ash Williams
Bruce Campbell	Evil Dead II	Ash Williams
Bruce Campbell	Army of Darkness	Ash Williams

4. List all reviewer accounts and the number of ratings they have submitted in descending order of when the account was created.

```
SELECT reviewer.username, COUNT(rating.reviewerID) AS numReviews ,reviewer.reviewerID
                FROM reviewer LEFT JOIN rating ON rating.reviewerID = reviewer.reviewerID
                GROUP BY reviewer.reviewerID ORDER BY reviewer.reviewerID DESC;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

username	numReviews	reviewerID
ise5	5	4
timtam323	1	3
hwang1123	1	2
mendorReviews	5	1

5. List all movies in alphabetical order along with their average review score, and the number of reviews they have.

```
    □ ■ | ∮ ∯ ⚲ ⊙ | 8o | ⊘ ⊗ 🔲 | Limit to 1000 rows    ▾ | ⭐ | ⚕ ⚲ ¶ ⏎
 1 ●   SELECT AVG(ALL rating.score) AS avgScore, COUNT(rating.movieID) AS totalReviews, movie.title FROM rating
 2       LEFT JOIN movie ON movie.movieID = rating.movieID |
 3       GROUP BY movie.movieID ORDER BY movie.title ASC;
 4
```

Result Grid		Filter Rows:		Export:	Wrap Cell Content:	
avgScore	totalReviews	title
▶ 4.5	2	Alien
3	2	Army of Darkness
3.5	4	Blade Runner
3.5	2	Evil Dead
4.5	2	Evil Dead II

6. Select a movie and display the movie's title, director, genre, rating, runtime, release date, and its language.
   a. In the sql it specifies 'Army of Darkness' but the page is setup to use the title of the user's selected movie

```
    □ ■ | ∮ ∯ ⚲ ⊙ | 8o | ⊘ ⊗ 🔲 | Limit to 1000 rows    ▾ | ⭐ | ⚕ ⚲ ¶ ⏎
 1 ●   SELECT movie.title, movie.mppaRating, movie.runtime, movie.releastDate, movie.language,  genre.genreName, CONCAT(director.directFN, ' ', director.directLN) AS directName
 2           FROM movie LEFT JOIN moviegenre ON moviegenre.movieID = movie.movieID
 3           LEFT JOIN genre ON moviegenre.genreID = genre.genreID
 4           LEFT JOIN moviedirection ON moviedirection.movieID = movie.movieID
 5           LEFT JOIN director ON moviedirection.directorID = director.directorID
 6           WHERE title = 'Army of Darkness'
```

Result Grid		Filter Rows:		Export:	Wrap Cell Content:			
title	mppaRating	runtime	releastDate	language	genreName	directName
▶ Army of Darkness	R	96	1992-02-19	English	Horror	Sam Raimi

7. List all movies in alphabetical order along with their rating, runtime, release date, and director

```
 1 ●   SELECT movie.title, movie.mppaRating, movie.runtime, movie.releastDate , CONCAT(director.directFN, ' ', director.directLN) AS directName
 2           FROM movie LEFT JOIN moviedirection ON moviedirection.movieID = movie.movieID
 3           LEFT JOIN director ON moviedirection.directorID = director.directorID
 4           ORDER BY title ASC;
```

Result Grid		Filter Rows:		Export:	Wrap Cell Content:	
title	mppaRating	runtime	releastDate	directName
▶ Alien	R	117	1979-05-25	Ridley Scott
Army of Darkness	R	96	1992-02-19	Sam Raimi
Blade Runner	R	117	1982-06-25	Ridley Scott
Evil Dead	R	117	1983-04-24	Sam Raimi
Evil Dead II	R	84	1987-03-13	Sam Raimi
Taxi Driver	R	114	1976-02-08	Martin Scorscese

8. List all genres in alphabetical order along with the number of movies that genre has and the genre's description

```
   ⊟   🗁 🔚  ⚡ 🔥 🔍 ⬤  🔳  ⬤  ⬤  🔳   Limit to 1000 rows  ▾  🌟  ✎  🔍  ¶  🔁
1 •   SELECT genre.genreName, genre.genreDescription, COUNT(moviegenre.movieID) AS numMovies
2                 FROM genre LEFT JOIN moviegenre ON moviegenre.genreID = genre.genreID
3                 GROUP BY genre.genreID ORDER BY genreName ASC;
```

Result Grid | 🔳 ↔ Filter Rows: [   ] | Export: 🔳 | Wrap Cell Content: 🄰

genreName	genreDescription	numMovies
▶ Action	Action films usually include high energy, big-bud...	0
Comedy	Comedies are light-hearted plots consistently a...	0
Crime	Crime films are developed around the sinister ac...	0
Drama	Dramas are serious, plot-driven presentations, ...	1
Fantasy	Fantasies take the audience to dark netherworl...	0
Horror	Horror films are designed to frighten and to inv...	3
Romance	These are love stories, or affairs of the heart t...	0
Science Fiction	Sci-fi films are often quasi-scientific, visionary a...	2
Thriller	Thriller and suspense films are virtually synony...	0
Western	Westerns are the major defining genre of the A...	0

9. List all actors alphabetically ordered by their last name along with their gender and the number of movies they have been in.

```
1 •   SELECT CONCAT(actor.actFN, ' ', actor.actLN) AS actName, actor.gender, actor.actorID, COUNT(moviecast.actorID) AS MoviesIn
2                 FROM actor LEFT JOIN moviecast ON moviecast.actorID = actor.actorID
3                 GROUP BY actor.actorID ORDER BY actor.actLN ASC;
```

Result Grid | 🔳 ↔ Filter Rows: [   ] | Export: 🔳 | Wrap Cell Content: 🄰

actName	gender	actorID	MoviesIn
▶ Denise Bixler	F	5	1
Bruce Campbell	M	2	3
Robert De Niro	M	3	1
Kassie DePaiva	F	8	1
Harrison Ford	M	1	1
Dan Hicks	M	7	1
Ted Raimi	M	6	1
Sigourney Weaver	F	4	1

10. List all the names of the directors in alphabetical order

```sql
1 •   SELECT directorID, CONCAT(directFN, ' ', directLN) AS directName FROM director ORDER BY directName ASC;
2
```

Result Grid | Filter Rows: [   ] | Export: | Wrap Cell Content:

directorID	directName
3	Martin Scorscese
1	Ridley Scott
2	Sam Raimi