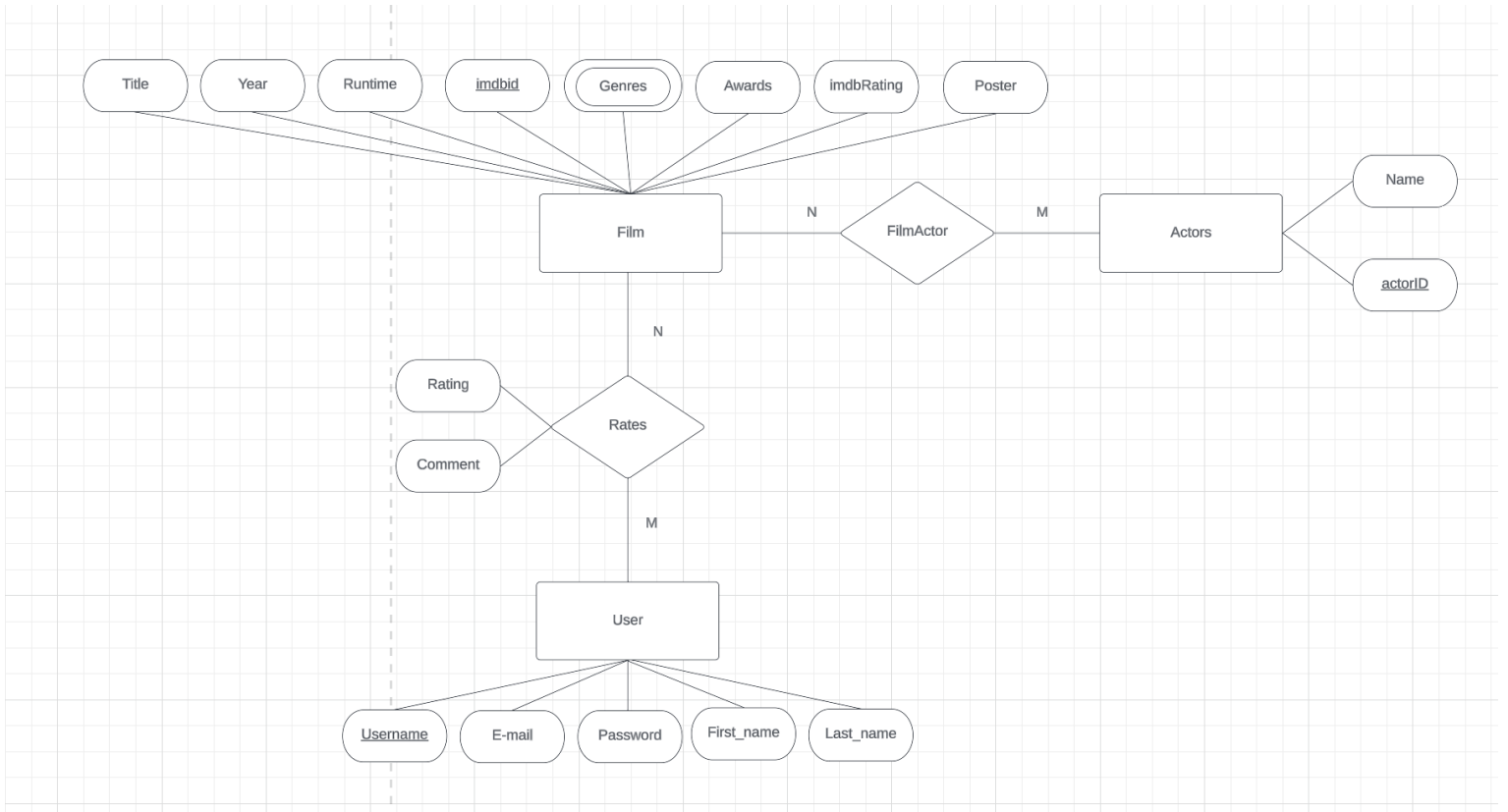# Mini IMDB

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Project Description

We created a movie rating website similar to IMDB. Using our website, users will be able to rate movies, track the movies they rated, and find movies with different filtering options. Users can get information on films or actors by going to their pages.

Entity-Relationship Diagram

Relational Database Design

```sql
CREATE TABLE ` actor ` (
` Name ` CHAR(50) DEFAULT NULL,
` ActorID ` VARCHAR(20) NOT NULL,
` Image ` VARCHAR(500) DEFAULT NULL,
PRIMARY KEY (` ActorID `) )

CREATE TABLE `film` (
`Imdbid` varchar(20) NOT NULL,
`Title` varchar(250) DEFAULT NULL,
`Year` int DEFAULT NULL, `Runtime` varchar(50) DEFAULT NULL,
`Awards` varchar(200) DEFAULT NULL,
`Imdbrating` varchar(5) DEFAULT NULL,
`Poster` varchar(400) DEFAULT NULL,
`Plot` varchar(500) DEFAULT NULL,
PRIMARY KEY (`Imdbid`) )


CREATE TABLE `filmactor` (
`Imdbid` varchar(20) NOT NULL,
`ActorID` varchar(20) NOT NULL,
PRIMARY KEY (`Imdbid`, `ActorID`), KEY `ActorID` (`ActorID`),
CONSTRAINT `filmactor_ibfk_1` FOREIGN KEY (`Imdbid`) REFERENCES `film` (`Imdbid`),
CONSTRAINT `filmactor_ibfk_2` FOREIGN KEY (`ActorID`) REFERENCES `actor` (`ActorID`) )

CREATE TABLE `filmgenre` (
`Imdbid` varchar(20) NOT NULL,
`Genre` varchar(20) NOT NULL,
PRIMARY KEY (`Imdbid`, `Genre`),
CONSTRAINT `filmgenre_ibfk_1` FOREIGN KEY (`Imdbid`) REFERENCES `film` (`Imdbid`) )

CREATE TABLE `rates` (
`Username` varchar(50) NOT NULL,
`Imdbid` varchar(20) NOT NULL,
`Rating` int DEFAULT NULL,
`Comment` varchar(200) DEFAULT NULL,
PRIMARY KEY (`Username`, `Imdbid`),
KEY `Imdbid` (`Imdbid`),
CONSTRAINT `rates_ibfk_1` FOREIGN KEY (`Imdbid`) REFERENCES `film` (`Imdbid`),
CONSTRAINT `rates_ibfk_2` FOREIGN KEY (`Username`) REFERENCES `user` (`Username`) )

CREATE TABLE `user` (
`Username` varchar(50) NOT NULL,
`Email` varchar(100) DEFAULT NULL,
`Password` varchar(250) DEFAULT NULL,
`Firstname` varchar(50) DEFAULT NULL,
`Lastname` varchar(50) DEFAULT NULL,
PRIMARY KEY (`Username`) )
```

Data Sources

To get the data we wanted, we used a python library called [IMDBPY](#) and created csv files. Then we imported the csv files into our database. We limited the films to the films in IMDB's Top 250 list.

The number of tuples in each table:

Film: 250

Actor: 16433

FilmGenre:737

Plays: 18925

Users: 2

Rates: 13

Complex SQL Queries

Top-rated films: Gives the 10 films that got the highest rating on our website.

```sql
SELECT
        f.Title AS film_name,
        f.Poster, AVG(r.Rating) AS average_rating
FROM Film f
JOIN
        Rates r
        ON f.Imdbid = r.Imdbid
GROUP BY
        f.Imdbid,
        f.Title
ORDER BY
        average_rating DESC LIMIT 10
```

Movies that the user have rated by descending order:

```sql
SELECT
        f.Title,
        r.Rating,
        f.Imdbrating
FROM
        Film f
        JOIN
        Rates r
        ON f.Imdbid = r.Imdbid
WHERE
        r.Username = ?
ORDER BY
        r.Rating DESC;
```

Popular actors by the users' ratings:

```sql
SELECT
        A.Name as ActorName,
        COUNT(*) AS FilmCount,
        GROUP_CONCAT(F.Title) AS Films'+ '
        FROM Rates R JOIN Film F ON R.Imdbid = F.Imdbid JOIN FilmActor FA ON F.Imdbid =
FA.Imdbid JOIN Actor A ON FA.ActorID = A.ActorID' + '
WHERE
        Username = ?
GROUP BY
        A.ActorID
ORDER BY
        FilmCount DESC LIMIT 5
```

Top actors separated by their most-played genres:

```sql
SELECT
        actor_name,
        genre_count,
        genres_played
FROM
(
        SELECT
                a.Name AS actor_name,
                COUNT(DISTINCT fg.Genre) AS genre_count,
                GROUP_CONCAT(DISTINCT fg.Genre SEPARATOR ', ') AS genres_played
        FROM
                Actor a
                JOIN
                        FilmActor fa
                        ON a.ActorID = fa.ActorID
                JOIN
                        FilmGenre fg ON fa.Imdbid = fg.Imdbid
        GROUP BY
                a.ActorID,
                a.Name
)
 AS nested_query
ORDER BY genre_count DESC;
```

Actors who played in most top 250 films in the last 10 years:

```sql
SELECT
        Actor.Name AS ActorName,
        COUNT(*) AS FilmCount,
        GROUP_CONCAT(Film.Title SEPARATOR ', ') AS Films
FROM
        Actor
        JOIN
                FilmActor
                ON Actor.ActorID = FilmActor.ActorID
        JOIN
                Film
                ON FilmActor.Imdbid = Film.Imdbid
WHERE
```

```
        Film.Year >= YEAR(CURDATE()) - 10
GROUP BY
        Actor.ActorID
HAVING
        COUNT(*) > 2
ORDER BY
        FilmCount DESC
```

Screenshots

Home Page:

Film Detail Page:

Giriş yapan kullanıcı: osanli19

Çıkış yap

The Godfather

IMDb Rating: 9.2

Year: 1972

Runtime: 175 min

Plot: The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son.

Awards: Won 3 Oscars. Another 23 wins & 27 nominations.

Aktörler

Marlon Brando
Al Pacino
Robert Duvall
Diane Keaton
James Caan
John Cazale
Sofia Coppola
Sterling Hayden
Talia Shire
Abe Vigoda
Richard Conte
Ron Gilbert
Tybee Brascia
Frank Albanese

Actor Page:

Çıkış yap

Aktör Detayı

Al Pacino

Oynadığı Filmler

The Godfather
The Godfather Part II
Scarface
Heat

Popular-Actors(Recent 10 years) Page:

Son 10 Yılda Çok Film Çeken Aktörler

Oyuncu İsmi	Oynadığı Film Sayısı	Oynadığı Filmler
Joseph Oliveira	5	Interstellar, Prisoners, Whiplash, Spotlight, The Wolf of Wall Street
Benedict Cumberbatch	5	12 Years a Slave, Avengers: Endgame, Spider-Man: No Way Home, Avengers: Infinity War, 1917
Arnold Montey	4	Green Book, Whiplash, 12 Years a Slave, Prisoners
Mark Falvo	4	Spotlight, Joker, Logan, The Wolf of Wall Street
Andrew S. McMillan	4	Guardians of the Galaxy Vol. 3, Avengers: Endgame, Avengers: Infinity War, Spider-Man: No Way Home
J.K. Simmons	4	Klaus, Spider-Man: No Way Home, Whiplash, Spider-Man: Across the Spider-Verse
Sean Gunn	3	Guardians of the Galaxy Vol. 3, Avengers: Infinity War, Avengers: Endgame
Stan Lee	3	Avengers: Endgame, Spider-Man: Into the Spider-Verse, Avengers: Infinity War
Chris Pratt	3	Avengers: Infinity War, Avengers: Endgame, Guardians of the Galaxy Vol. 3
Michelle Ruff	3	Your Name., Whiplash, Spider-Man: Across the Spider-Verse
Mark Ruffalo	3	Avengers: Endgame, Spotlight, Avengers: Infinity War
Zoe Saldana	3	Avengers: Infinity War, Avengers: Endgame, Guardians of the Galaxy Vol. 3
Jon Favreau	3	Avengers: Endgame, Spider-Man: No Way Home, The Wolf of Wall Street
Shea Whigham	3	The Wolf of Wall Street, Joker, Spider-Man: Across the Spider-Verse
Benedict Wong	3	Spider-Man: No Way Home, Avengers: Endgame, Avengers: Infinity War
Mahershala Ali	3	Spider-Man: Across the Spider-Verse, Green Book, Spider-Man: Into the Spider-Verse
Chris Hemsworth	3	Rush, Avengers: Endgame, Avengers: Infinity War
Dave Bautista	3	Guardians of the Galaxy Vol. 3, Avengers: Endgame, Avengers: Infinity War
Bradley Cooper	3	Avengers: Infinity War, Avengers: Endgame, Guardians of the Galaxy Vol. 3
Aaron Lazar	3	Avengers: Endgame, Avengers: Infinity War, The Wolf of Wall Street
Andrew Garfield	3	Spider-Man: No Way Home, Hacksaw Ridge, Spider-Man: Across the Spider-Verse
Karen Gillan	3	Guardians of the Galaxy Vol. 3, Avengers: Endgame, Avengers: Infinity War
Pom Klementieff	3	Guardians of the Galaxy Vol. 3, Avengers: Endgame, Avengers: Infinity War

Top-Actors(actors in the most genres) Page:

En İyi Oyuncular

Oyuncu İsmi	Oynadığı Tür Sayısı	Oynadığı Tüm Türler
Arnold Montey	15	Action, Adventure, Biography, Comedy, Crime, Drama, Fantasy, History, Music, Mystery, Sci-Fi, Sport, Thriller, War, Western
Bert Stevens	13	Action, Adventure, Biography, Comedy, Crime, Drama, Family, Music, Musical, Mystery, Romance, Thriller, War
Steve Carruthers	13	Action, Adventure, Biography, Comedy, Crime, Drama, Family, Music, Musical, Mystery, Romance, Thriller, War
Christian Bale	12	Action, Adventure, Animation, Biography, Crime, Drama, Family, Fantasy, Mystery, Sci-Fi, Sport, Thriller
Monty O'Grady	12	Action, Adventure, Biography, Comedy, Crime, Drama, Family, Musical, Mystery, Romance, Thriller, War
Brad Jacobowitz	12	Action, Adventure, Biography, Comedy, Crime, Drama, History, Mystery, Romance, Sci-Fi, Thriller, War
Sam Harris	11	Biography, Comedy, Crime, Drama, Family, Music, Musical, Mystery, Romance, Thriller, War
Sherry Lynn	11	Action, Adventure, Animation, Comedy, Drama, Family, Fantasy, Musical, Mystery, Romance, Sci-Fi
Mickie McGowan	11	Action, Adventure, Animation, Comedy, Drama, Family, Fantasy, Musical, Mystery, Romance, Sci-Fi

Top-Rated-Films Page:

En Yüksek Puanlı Filmler

	The Godfather Part II	Puan: 10.0000
	Trainspotting	Puan: 9.0000
	The Matrix	Puan: 9.0000
	Spider-Man: Across the Spider-Verse	Puan: 9.0000
	Taxi Driver	Puan: 8.0000
	Spider-Man: Into the Spider-Verse	Puan: 8.0000
	The Kid	Puan: 7.5000

User Profile Page:

Giriş yapan kullanıcı: osanli19

Çıkış yap

Kullanıcı Profili

Puanladığım Filmler

Film İsmi	Kullanıcı Puanı	IMDb Puanı
The Godfather Part II	10	9.0
Spider-Man: Across the Spider-Verse	9	8.8
The Matrix	9	8.7
Trainspotting	9	8.1
Spider-Man: Into the Spider-Verse	8	8.4
Taxi Driver	8	8.2
Memento	7	8.4
Heat	7	8.2
Sherlock Jr.	7	8.1
Raging Bull	7	8.1
Metropolis	6	8.2

En Çok İzlediğim Aktörler

Aktör İsmi	İzlenen Film Sayısı	İzlenen Filmler
Robert De Niro	4	Taxi Driver,The Godfather Part II,Raging Bull,Heat
Jason Linere-White	2	Spider-Man: Into the Spider-Verse,Spider-Man: Across the Spider-Verse
Oscar Camacho	2	Spider-Man: Into the Spider-Verse,Spider-Man: Across the Spider-Verse
Gredel Berrios Calladine	2	Spider-Man: Into the Spider-Verse,Spider-Man: Across the Spider-Verse
Arthur Ortiz	2	Spider-Man: Across the Spider-Verse,Spider-Man: Into the Spider-Verse