A
Project Report
on
Movie Database

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CERTIFICATE

This is to certify that the project entitled "Movie Database" is a bonafide report of the work carried out by

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of Department of Information Technology, semester V, under the guidance and supervision for the subject Database Management System. They were involved in Project training during academic year 2018-2018.

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ACKNOWLEDGEMENT

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SYSTEM OVERVIEW

1.1 CURRENT SYSTEM

This project is a database that stores data for an app that enables users to discover new movies, get information about various movies, search movies using different filters, etc. The database stores information of users such as emails, passwords, favorite genres, country, DOB, identity, name, profile picture path, etc. Moreover, it stores information of movies which include but not limited to movie title, runtime, genres, plot, release date, path of poster and information of people who worked to create the movie. Furthermore the database also stores the data of the reviews and rating that are posted by individual users for any movie.

1.2 OBJECTIVES OF THE PROPOSED SYSTEM

The objective of the proposed system should be as follows:
It should allow users to search for movies using detailed and vivid search filters. The application should also recommend the user movies based on their previously watched and like movies, and based on ratings and reviews of other users. These recommendations get better with increase in the use of application by the user. It also allows users to read reviews and ratings posted by other users.

1.3 ADVANTAGES OF CURRENT SYSTEM

The system enables users to discover movies of their choice using the search filters. The recommendations that users get are also helpful in discovering new movies. Moreover, users can read reviews of other movies online. This application can further be scaled to store and retrieve data for music in a similar fashion. All the current uses can be implemented to the newly added music data.

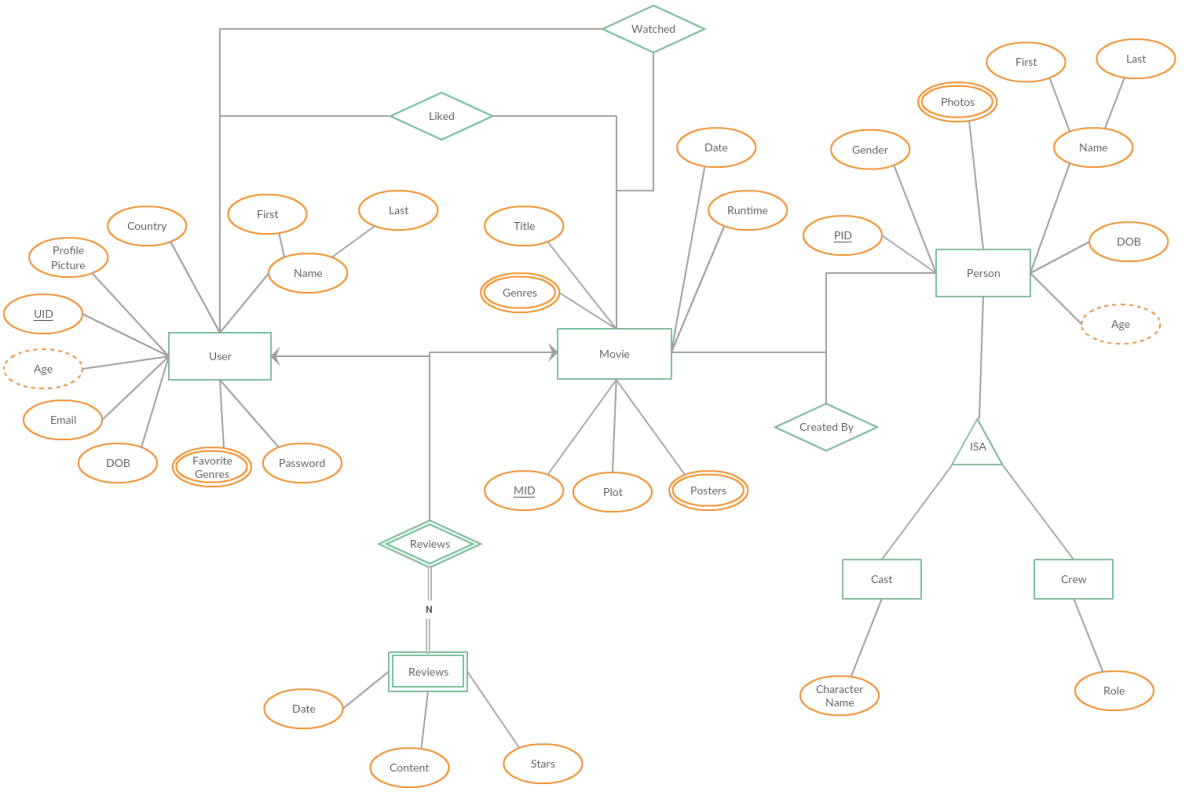
FUTURE ENHANCEMENTS OF THE SYSTEM

This system can further be scaled to store and retrieve data for music in a similar fashion. All the current uses can be implemented to the newly added music data. Moreover it can be scaled to store more information for individual movies.

BIBLIOGRAPHY

- Database System Concepts - Fourth Edition by Silberschatz-Korth-Sudarshan

E-R DIAGRAM



2.1 ENTITIES

- User
- Movie
- Review (weak)
- Person
- Cast
- Crew

2.2 RELATIONSHIPS

- Liked (User - Movie)
- Watched (User - Movie)
- Reviews (User - Movie - Review)
- Createdby (Movie - Person)

- ISA (Person - Cast)
- ISA (Person - Crew)

2.3 MAPPING CONSTRAINTS

- Liked :- Many to Many
- Watched :- Many to Many
- Review - Movie :- Many to One
- Review - User :- Many to One
- Createdby :- Many to Many

DATA DICTIONARY

cast

Column	Type	Null	Default	Links to	Comments	MIME
MID *(Primary)*	int(11)	No		movies -> MID		
PID *(Primary)*	int(11)	No		people -> PID		
CharacterName	varchar(255)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	MID	60	A	No	
				PID	60	A	No	
MID	BTREE	No	No	MID	60	A	No	
PID	BTREE	No	No	PID	60	A	No	

createdby

Column	Type	Null	Default	Links to	Comments	MIME
PID *(Primary)*	int(11)	No		people -> PID		
MID *(Primary)*	int(11)	No		movies -> MID		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
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				MID	136	A	No	
PID	BTREE	No	No	PID	45	A	No	
MID	BTREE	No	No	MID	45	A	No	

crew

Column	Type	Null	Default	Links to	Comments	MIME
MID *(Primary)*	int(11)	No		movies -> MID		
PID *(Primary)*	int(11)	No		people -> PID		
Role	varchar(255)	No				

Indexes

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				MID	76	A	No	

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
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PID	BTREE	No	No	PID	76	A	No	

favgenres

Column	Type	Null	Default	Links to	Comments	MIME
UID *(Primary)*	int(11)	No		users -> UID		
Name *(Primary)*	varchar(255)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	UID	34	A	No	
				Name	34	A	No	
UID	BTREE	No	No	UID	34	A	No	

genres

Column	Type	Null	Default	Links to	Comments	MIME
MID *(Primary)*	int(11)	No		movies -> MID		
Name *(Primary)*	varchar(32)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	MID	42	A	No	
				Name	42	A	No	
MID	BTREE	No	No	MID	42	A	No	

liked

Column	Type	Null	Default	Links to	Comments	MIME
UID *(Primary)*	int(11)	No		users -> UID		
MID *(Primary)*	int(11)	No		movies -> MID		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	UID	36	A	No	
				MID	36	A	No	
UID	BTREE	No	No	UID	36	A	No	

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
MID	BTREE	No	No	MID	36	A	No	

movies

Column	Type	Null	Default	Links to	Comments	MIME
MID *(Primary)*	int(11)	No				
Title	varchar(255)	No				
ReleaseDate	date	No				
Plot	varchar(1023)	Yes	*NULL*			
Runtime	smallint(6)	Yes	*NULL*			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	MID	20	A	No	

people

Column	Type	Null	Default	Links to	Comments	MIME
PID *(Primary)*	int(11)	No				
FirstName	varchar(255)	Yes	*NULL*			
LastName	varchar(255)	Yes	*NULL*			
Gender	varchar(1)	Yes	*NULL*			
DOB	date	Yes	*NULL*			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	PID	20	A	No	

photos

Column	Type	Null	Default	Links to	Comments	MIME
PID *(Primary)*	int(11)	No		people -> PID		
FileName *(Primary)*	varchar(255)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	PID	40	A	No	
				FileName	80	A	No	

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
FileName	BTREE	Yes	No	FileName	80	A	No	
PID	BTREE	No	No	PID	40	A	No	

posters

Column	Type	Null	Default	Links to	Comments	MIME
MID *(Primary)*	int(11)	No		movies -> MID		
FileName *(Primary)*	varchar(255)	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	MID	80	A	No	
				FileName	80	A	No	
FileName	BTREE	Yes	No	FileName	80	A	No	
MID	BTREE	No	No	MID	80	A	No	

reviews

Column	Type	Null	Default	Links to	Comments	MIME
UID *(Primary)*	int(11)	No		users -> UID		
MID *(Primary)*	int(11)	No		movies -> MID		
Date	date	No				
Stars	tinyint(4)	No				
Content	varchar(1023)	Yes	*NULL*			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	UID	46	A	No	
				MID	46	A	No	
UID	BTREE	No	No	UID	46	A	No	
MID	BTREE	No	No	MID	46	A	No	

users

Column	Type	Null	Default	Links to	Comments	MIME
UID *(Primary)*	int(11)	No				
FirstName	varchar(255)	No				
LastName	varchar(255)	No				
Country	varchar(2)	Yes	*NULL*			

ProfilePicture	varchar(255)	Yes	*NULL*			
Email	varchar(255)	No				
Password	varchar(255)	No				
DOB	date	Yes	*NULL*			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	UID	20	A	No	
ProfilePicture	BTREE	Yes	No	ProfilePicture	20	A	Yes	

watched

Column	Type	Null	Default	Links to	Comments	MIME
UID *(Primary)*	int(11)	No		users -> UID		
MID *(Primary)*	int(11)	No		movies -> MID		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	UID	84	A	No	
				MID	84	A	No	
UID	BTREE	No	No	UID	84	A	No	
MID	BTREE	No	No	MID	84	A	No	

SCHEMA DIAGRAM