IMDB Design a DB for IMDB

1. Movie should have multiple media(Video or Image)

2. Movie can belongs to multiple Genre

3. Movie can have multiple reviews and Review can belongs to a user

4. Artist can have multiple skills

5. Artist can perform multiple role in a single film.

1. Create Movies table:

CREATE TABLE Movies (

MovieID INT PRIMARY KEY,

Title VARCHAR(255),

ReleaseDate DATE,

Actor Text

);

1. Create Media table:

CREATE TABLE Media (

MediaID INT PRIMARY KEY,

MovieID INT,

MediaType VARCHAR(50),

FilePath VARCHAR(255),

FOREIGN KEY (MovieID) REFERENCES Movies(MovieID);

);

1. Create Genre table

CREATE TABLE Genre (

GenreID INT PRIMARY KEY,

GenreName VARCHAR(50);

);

1. Create MovieGenres table:

CREATE TABLE MovieGenres (

MovieID INT,

GenreID INT,

PRIMARY KEY (MovieID, GenreID),

FOREIGN KEY (MovieID) REFERENCES Movies(MovieID),

FOREIGN KEY (GenreID) REFERENCES Genre(GenreID);

);

1. Create Reviews table:

CREATE TABLE Reviews (

ReviewID INT PRIMARY KEY,

MovieID INT,

UserID INT,

Rating FLOAT,

Comment TEXT,

FOREIGN KEY (MovieID) REFERENCES Movies(MovieID),

FOREIGN KEY (UserID) REFERENCES Users(UserID);

);

1. Create Users table:

CREATE TABLE Users (

UserID INT PRIMARY KEY,

UserName VARCHAR(50);

);

1. Create Artists table:

CREATE TABLE Artists (

ArtistID INT PRIMARY KEY,

ArtistName VARCHAR(100);

);

1. Create Skills table:

CREATE TABLE Skills (

SkillID INT PRIMARY KEY,

SkillName VARCHAR(50);

);

1. Create ArtistSkills table:

CREATE TABLE ArtistSkills (

ArtistID INT,

SkillID INT,

PRIMARY KEY (ArtistID, SkillID),

FOREIGN KEY (ArtistID) REFERENCES Artists(ArtistID),

FOREIGN KEY (SkillID) REFERENCES Skills(SkillID);

);

1. Create Roles table

CREATE TABLE Roles (

RoleID INT PRIMARY KEY,

RoleName VARCHAR(50);

);

1. Create MovieArtists table:

CREATE TABLE MovieArtists (

MovieID INT,

ArtistID INT,

RoleID INT,

PRIMARY KEY (MovieID, ArtistID, RoleID),

FOREIGN KEY (MovieID) REFERENCES Movies(MovieID),

FOREIGN KEY (ArtistID) REFERENCES Artists(ArtistID),

FOREIGN KEY (RoleID) REFERENCES Roles(RoleID);

);

Insert Values of Data:

Insert sample data into Movies table

INSERT INTO Movies (MovieID, Title, ReleaseDate, Actor) VALUES

(1,’Muni’, ‘15-05-2000’,’Ragavalawrence’),

(2, 'Sura', '23-09-1994',’Vijay’);

Insert sample data into Media table

INSERT INTO Media (MediaID, MovieID, MediaType, FilePath) VALUES

(1, 1, 'Video', 'https://www.youtube.com/watch?v=ShsFxGV\_thk'),

(2, 1, 'Image', 'https://in.pinterest.com/pin/leo-vijay-in-2023--588986457555096041/');

Insert sample data into Genres table

INSERT INTO Genres (GenreID, GenreName) VALUES

(1, 'Cartoon'),

(2, 'Action');

Insert sample data into MovieGenres table

INSERT INTO MovieGenres (MovieID, GenreID) VALUES

(1, 1),

(1, 2),

(2, 2);

Insert sample data into Reviews table

INSERT INTO Reviews (ReviewID, MovieID, UserID, Rating, Comment) VALUES

(1, 1, 1, 4.5, 'Amazing movie!'),

(2, 1, 2, 5.0, 'Mind-blowing plot!');

Insert sample data into Users table

INSERT INTO Users (UserID, UserName) VALUES

(1, 'john\_doe'),

(2, 'jane\_smith');

Insert sample data into Artists table

INSERT INTO Artists (ArtistID, ArtistName) VALUES

(1, 'Leonardo DiCaprio'),

(2, 'Christopher Nolan');

Insert sample data into Skills table

INSERT INTO Skills (SkillID, SkillName) VALUES

(1, 'Acting'),

(2, 'Directing');

Insert sample data into ArtistSkills table

INSERT INTO ArtistSkills (ArtistID, SkillID) VALUES

(1, 1),

(2, 2);

Insert sample data into Roles table

INSERT INTO Roles (RoleID, RoleName) VALUES

(1, 'Actor'),

(2, 'Director');

Insert sample data into MovieArtists table

INSERT INTO MovieArtists (MovieID, ArtistID, RoleID) VALUES

(1, 1, 1),

(1, 2, 2);