**Using MySQL, design a database whose name is IMDB. Create proper MySQL tables, Primary**

**Key, Foreign Key, add data into the MySQL tables and do the following as given below :-**

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

**2) 2. Movie can belongs to multiple Genre**

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

**4) 4. Artist can have multiple skills**

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

create database IMDB;

USE IMDB;

create table Movies(

Movieid int auto\_increment primary key,

title varchar(255) not null,

releaseyear year,

director varchar(30)

);

create table Media (

MediaId int auto\_increment primary key,

MovieId int,

MediaType enum("video","image") not null,

MediaUrl varchar(244) not null,

foreign key (Movieid) References Movies(Movieid) on delete cascade

);

CREATE TABLE Genres (

Genre\_ID INT AUTO\_INCREMENT PRIMARY KEY,

GenreName VARCHAR(100) NOT NULL

);

CREATE TABLE Users (

UserID INT AUTO\_INCREMENT PRIMARY KEY,

UserName VARCHAR(255) NOT NULL

);

CREATE TABLE Reviews (

ReviewID INT AUTO\_INCREMENT PRIMARY KEY,

MovieID INT,

UserID INT,

Rating INT CHECK (Rating >= 1 AND Rating <= 10),

ReviewText TEXT,

FOREIGN KEY (MovieID) REFERENCES Movies(MovieID) ON DELETE CASCADE,

FOREIGN KEY (UserID) REFERENCES Users(UserID) ON DELETE CASCADE

);

CREATE TABLE MovieGenres (

MovieID INT,

Genre\_ID INT,

PRIMARY KEY (MovieID, Genre\_ID),

FOREIGN KEY (MovieID) REFERENCES Movies(MovieID) ON DELETE CASCADE,

FOREIGN KEY (Genre\_ID) REFERENCES Genres(Genre\_ID) ON DELETE CASCADE

);

CREATE TABLE Artists(

ArtistID int auto\_increment primary key,

ArtistName varchar(50)not null

);

CREATE TABLE Skills(

SkillId int auto\_increment primary key,

SkillName varchar(200) not null

);

CREATE TABLE ArtistSkills(

ArtistId int,

SkillId int,

Primary key (ArtistId,SkillId),

FOREIGN KEY (ArtistId) References Artists(ArtistId) on delete cascade,

FOREIGN KEY (SkillId) REFERENCES Skills(SkillId) ON DELETE CASCADE

);

CREATE TABLE ROLES(

RoleId int auto\_increment primary key,

RoleName varchar(100) not null,

Primary key (ArtistId,SkillId),

FOREIGN KEY (ArtistId) References Artists(ArtistId) on delete cascade,

FOREIGN KEY (SkillId) REFERENCES Skills(SkillId) ON DELETE CASCADE

);

CREATE TABLE MovieRoles(

MovieID int,

ArtistID int,

RoleId int,

Primary key (ArtistId,MovieID,RoleId),

FOREIGN KEY (ArtistId) References Artists(ArtistId) on delete cascade,

FOREIGN KEY (MovieID) REFERENCES Movies(MovieID) ON DELETE CASCADE,

FOREIGN KEY (RoleId) REFERENCES Roles(RoleId) ON DELETE CASCADE

);

INSERT INTO Movies(Title,Releaseyear,Director)values

("Martian","2014","John"),

("Conjuring","2011","David");

INSERT INTO Genres (GenreName) VALUES

("Science Fiction"),

("HOrror");

INSERT INTO Users (UserName) VALUES

('Alice'),

('Bob');

INSERT INTO Artists (ArtistName) VALUES

('Matt Damon'),

('Vera Farmiga');

INSERT INTO Skills (SkillName) VALUES

('Acting'),

('Stunts');

INSERT INTO Roles (RoleName) VALUES

('Lead Actor'),

('Supporting Actor');

INSERT INTO MovieRoles (MovieID, ArtistID, RoleID) VALUES

(1, 1, 1),

(2, 2, 1);

Insert into Reviews(MovieId,UserID,Rating,ReviewText)values

(1,1,8,"Amazing story line with scientific concept"),

(2,2,7,"Excellent screenplay and nailbiting horror");

select \* from reviews;