

Assignment 1

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Due date: January 13, 2020, 11:55pm IST

1 Answer 1

1.1 ER Diagram

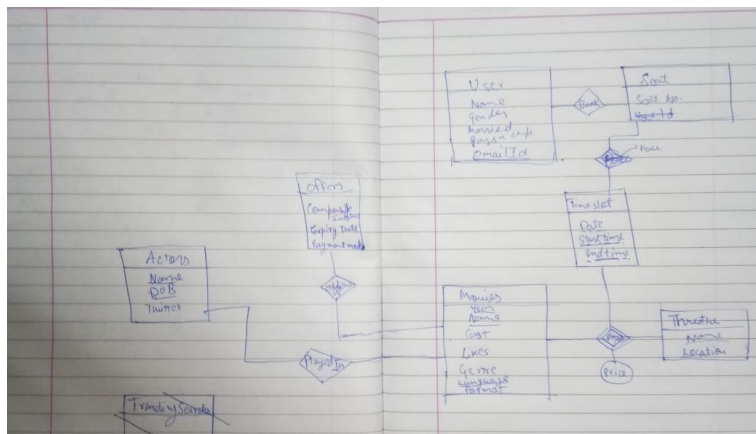


Figure 1: ER Diagram.

1.2 Set of relations

Entity	Attributes
Movies	Year, Name, Cast, Likes, Genre, Language, Format
Threatre	Name, Location
TimeSlot	Date, Start_time, End_time
Seat	SeatNo
User	Name, Gender, Married, Password, emailId
Offers	CompanyInvolved, ExpiryDate,PaymentMode
Actor	Name, DoB, TwitterAccount
PlayedIn	Year, Name, Cast, Likes, Genre, Language, Format, ActorName, DoB, Twitter
Plays	Name, Location, Year, Name, Cast, Likes, Genre, Language, Format, Date, Start_time, End_time
Place	Date, Start_time, End_time, SeatNo
Book	SeatNo, Name, Gender, Married, Password, emailId
offers	CompanyInvolved, ExpiryDate,PaymentMode, Year, Name, Cast, Likes, Genre, Language, Format

1.3 Keys and FDs

Entity	Keys	FD
Movies	Year, Name	Cast, Likes, Genre, Language, Format
Threatre	Name, Location	-
TimeSlot	Date, Start_time, End_time	-
Seat	SeatNo	-
User	emailId	Name, Gender, Married, Password
Offers	CompanyInvolved, ExpiryDate,PaymentMode	-
Actor	Name, DoB	TwitterAccount

1.4 Sample Data

1.5 List of various relationships

RelationShip	Entity
Weak entity set	TimeSlot, Seat
Non-binary relationship	Plays
Hierarchical relationships	-
referential constraints	Threatre, User

2 Answer 2

Universal Table
Year, MovieN-ame, Cast, Likes, Genre, Language, Format , ActorName, DoB, Twitter, Threatre-Name, Loca-tion

2NF ,3NF,BCNF all three at the same time

Table1
Year, Name, Cast, Likes, Genre, Lan-guage, For-mat, Treatre-Name, Loca-tion
Table2
Year, Name, Cast, Likes, Genre, Lan-guage, For-mat, Actor-Name, DoB, TwitterAc-count

Table3
Year, Name, Cast, Likes, Genre, Lan- guage, For- mat
Table4
ActorName, DoB, Twit- terAccount
Table5
THreatreName, Location

3 Answer 3

3.1 Schema

id rated created_at last_move_at turns victory_status winner
 increment_code white_id white_rating black_id black_rating moves
 opening_eco opening_name opening_ply

3.2 Various insert modes

3.2.1 Bulk Load

```
sudo -u postgres psql create database dbhw1; \dbhw1; create table hw1_table (c1 varchar,c2 varchar,c3 var-
char,c4 varchar,c5 varchar,c6 varchar,c7 varchar,c8 varchar,c9 varchar,c10 varchar,c11 varchar,c12 varchar,c13
varchar,c14 varchar,c15 varchar,c16 varchar); COPY hw1_table FROM '/home/ansh/8thSem/COL362/homework/games.csv'
WITH (FORMAT csv);
```

3.2.2 Insert statements

3.2.3 using JDBC

3.3 Statistics

Dataset: games.csv

4 Answer 4