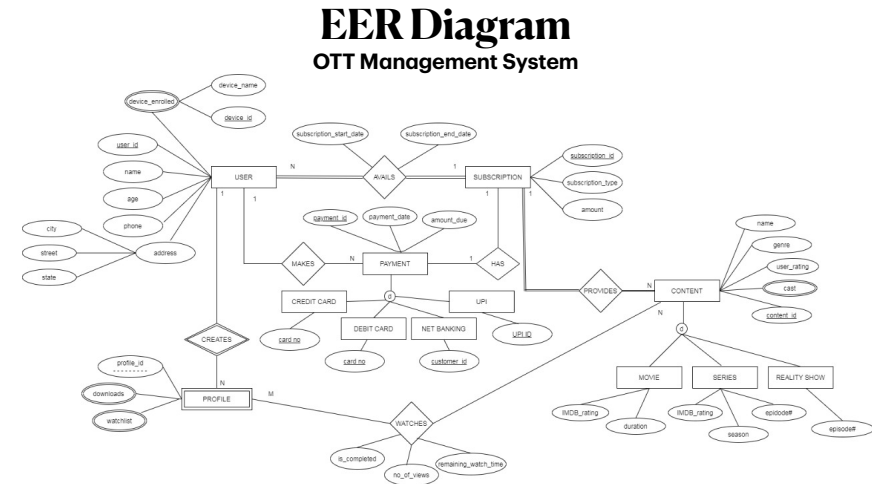


EER to Relational Mapping

OTT Management System



EER to Relational Mapping

Step 1 : Mapping of Regular Entity Types

- The User and Subscription strong entities are mapped as Relations with their simple and composite attributes as attributes of relations

• User

User_ID	Name	Age	Phone	City	Street	State
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• Subscription

Subscription_ID	Subscription_Type	Amount
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EER to Relational Mapping

Step 2: Mapping of Weak Entity Types

- The weak entity type Profile is mapped as a relation with it's partial key Profile_id and foreign key as User_Id of User entity

• Profile

User_ID	Profile_Id
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EER to Relational Mapping

Step 4: Mapping of Binary 1:1 Relation Types

- Using cross-reference option for the Has 1:1 relation
- **Has**

Subscription_Id	Payment_Id
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EER to Relational Mapping

Step 4: Mapping of Binary 1:N Relation Types

- Avails , Makes , Creates and Provides 1:N realtions are mapped by taking the Primary key from 1's side relation to N side relation

- **User**

User_ID	Name	Age	Phone	City	Street	State	Subscription_Id	Subscription_Start_Date	Subscription_End_date
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- **Payment**

Payment_ID	Payment_Date	Amount_Due	User_ID
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- **Profile**

User_ID	Profile_Id	Profile_Name
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- **Content**

Content_ID	Name	Genre	User_Rating	Subscription_ID
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Step 5: Mapping of Binary M:N Relationship Types.

- Watches M:N relation is mapped as new relation with it's descriptive attributes and primary keys Profile and Content entities

- **Watches**

User_ID	Profile_ID	Content_ID	is_Completed	No_of_Views	Remaining_Watch_Time
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EER to Relational Mapping

Step 6: Mapping of Multivalued Attributes

- Device_Enrolled , Downloads , Watchlist and Cast are the multi-valued attributes mapped as separate relations

- **Device_Enrolled**

User_ID	Device_ID	Device_Nam
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- **Downloads**

User_ID	Profile_Id	Downloads
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- **Watchlist**

User_ID	Profile_Id	Watchlist
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- **Cast**

Content_ID	Cast
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Step 7: Mapping of N-ary Relationship Types

- There is no N-ary relationship

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Step 8: Mapping Specialisation

- Using option 8.C with one table for all attributes of superclass and sub-class with a t-type discriminating attribute
- **Payment_Type**

Credit_Card_No	Debit_Card_No	Net_Banking_ID	UPI_ID	Payment_ID	Payment_Date	Amount_Due	User_ID	P_Type
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EER to Relational Mapping

Step 8: Mapping Specialisation

- Using option 8.C with one table for all attributes of superclass and sub-class with a t-type discriminating attribute
- **Content_Type**

Content_ID	Name	Genre	User_Rating	Subscription_ID	IMDB_Rating	Duration	Season_No	Episode_No	T-Type
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OTT MANAGEMENT SYSTEM – EER TO RELATIONAL MODEL MAPPING

