DBMS - Experiment 1

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AIM :

Identify the case study and detail statement of problem. Design an Entity-Relationship (ER) / Extended Entity-Relationship (EER) Model.

Theory of ER Diagram :

Er diagram-An entity relationship diagram (ERD), also known as an entity relationship model, is a graphical representation that depicts relationships among people, objects, places, concepts or events within an information technology (IT) system.

Entity- an entity is a table or attribute of a table in database, so by showing relationship among tables and their attributes, ER diagram shows the complete logical structure of a database.

Attributes-attribute refers to a database component, such as a table. It also may refer to a database field. Attributes describe the instances in the column of a database.

Participation constraint specifies the existence of an entity when it is related to another entity in a relationship type.

It is also called minimum cardinality constraint. This constraint specifies the number of instances of an entity that can participate in a relationship type.

Theory of Case Study :

This is a Entertainment Database. This database is to provide users information on movies and series . The user profile will contain details such as Name , DOB , Sex , Image , Age , Password , User_ID . The user can watch movies and series according to the choice of user the content will be segregated on the basis of genre , upcoming , trending and lastest . Each Movie and series content has its own details such as Title, trailer , release date , rating , overview , review , cast , duration . The content will be differentiated between movies and series . The series has Seasons which further contains Episodes, Season ID .

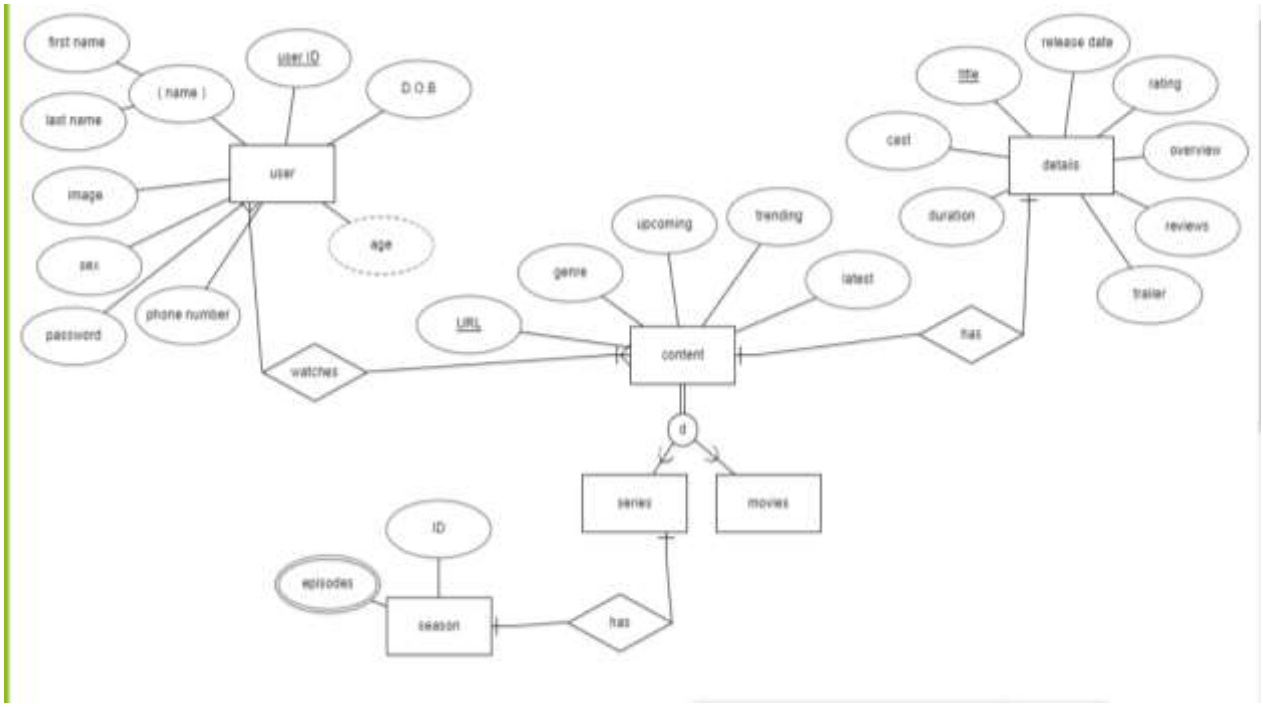
List of Entities :

1. User
2. Content
3. Details
4. Series
5. Movies
6. Season

List of Relationships :

1. User watches content . (m users watches n content)
2. Content has details (1 content has 1 details)
3. Content has movies or series (Distinct relationship)
4. Series has Seasons (1 series has n seasons).

Diagram :



Conclusion :

The above ER diagram perfectly represents the Entertainment database.