

Quiz-3.

COMP 8115 - M5D (Databases)

1. Design a Complete ER schema diagram for a Youtube like video site database.

ER diagram - It is defined as an Entity-Relationship model that describes interrelated things of interest in a specific domain of knowledge.

The basic ER model is composed of entity types and specifies relationships that can exist between entities.

→ Entity relationship diagram also known as Entity relationship model is a graphical representation that depicts relationship among people, objects, places, concepts or events.

Eg:- Student and colleges and these two entities have many to one relationship as many students study in a single college.

Steps to draw an ER diagram.

1. Determine the Entities in your ERD
2. Add attributes to each Entity.
3. Define the relationship b/w Entities
4. Add Cardinality to every relationship in your ER diagram

The Entities of the example is .

1. User
2. Friend
3. ~~Account~~ Payment
4. ~~Location~~ Payment details
5. Videos/~~Photo~~.
6. Subscription
7. watch history
8. Search

- I am designing an ER diagram for Amazon-Prime Video
- You Can make your subscription in order to enjoy your watching video.

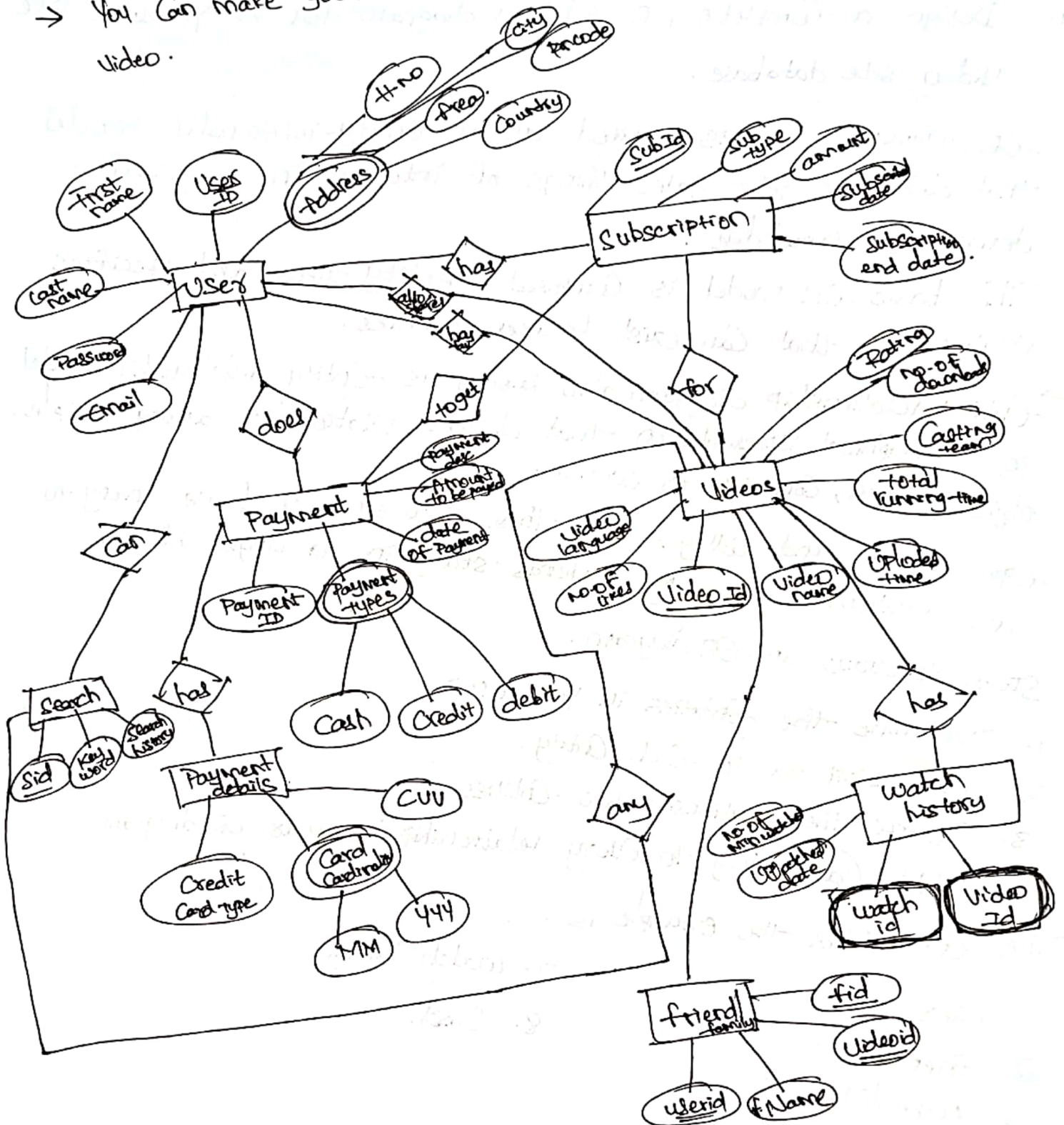


Fig 1 :- ER diagram of Amazon-Prime Video

→ I personally has a lot of interest in watching different videos on my free time.

→ These days watching videos from different platforms is being the biggest entertainment.

→ In the new era, there have been development of different OTT platforms like Amazon Prime Video, Netflix, Youtube, Hulu, Aha videos, etc.,

→ Every one has their own database design and own style of storing these data.

→ I am focusing more on the simple application and my database is more related to Amazon Prime Video.

Now, let me explain the ER diagram in detail.

→ There are 8 entities in my ER diagram. The relationships also exists b/w two entities.

→ In the ER diagram all the entities are denoted in rectangle, attributes are represented in circle and relationships are denoted in rhombus.

→ Here every user will have an subscription and user does payment in order to get subscription for watching videos.

→ After you get subscription, you are eligible to watch all the videos and these videos are stored and shown in your watch history.

→ If user wants a particular video he can search for the video and it would be stored under search history.

→ The user payment details are being stored for further usage.

2. Design a Complete ER schema diagram for friendship networking site database (eg:- facebook).

ER diagram - It is defined as an Entity-relationship model that describes interrelated things of interest in a specific domain of knowledge.

→ I am designing an ER diagram for a social networking site.

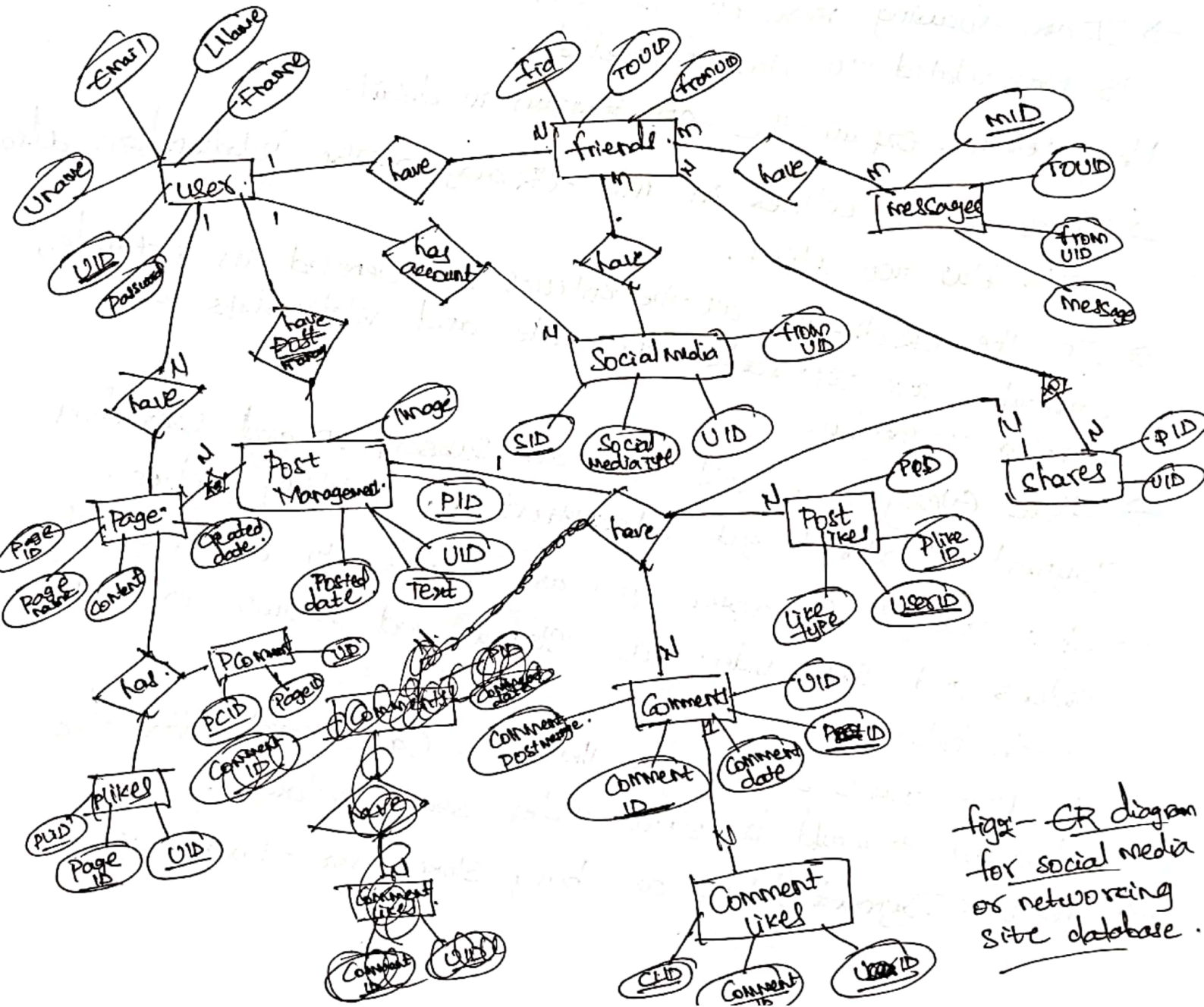


fig- ER diagram
for social media
or networking
site database.

→ Let me explain the ER diagram in detail.

There are different entities, relationships and attributes for this diagram.

• Every user who has account on media will come across some of the categories mentioned.

firstly, all the entities in the above diagram. The entities are.

1. Users.
2. Friends
3. Messages
4. Socialmedia.
5. Postmanagement.
6. Shares
7. Post likes.
8. Comments
9. Comment likes.
10. Page
11. Page likes

→ Every user has an account in the social media, and the account may be any kind like Facebook, LinkedIn, Instagram

→ One user can have one or more friends.

→ The friends / user can have more than messages also one friend can send 'n' number of messages to 'n' no. of people.

→ The post made by the user can get 'n' no. of likes and comment. Also comment in the post made can also have 'n' no. of likes.

→ User can share 'n' no. of posts to 'n' number of friends.

- Also, A User Can have more than one page and that Page Can have 'n' no. of posts.
- The User Can have 'n' likes for the Page and 'n' Comment for the Page.

This is about the schema diagram / ER relationship diagram for friendship networking site database.