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## Lec-6

Facebook - DB formulate using ER model

\* ER diagram

# ① Features. & use case.

- ① profile → user\_profiles → friends.
- ② user can post
- ③ Post → contains → text content, images, videos.
- ④ Post → like, comment.

① identity entity sets.

① mer\_profile

② mer-post

③ post\_comment

④ post\_like

## ② Attributes + types

① mer\_profile → Name, username, email, password, contact no.  
 Composite, DOB, age, multivalued, multivalued,  
 ↓  
 derived,

② user\_post  $\rightarrow$  post\_id, text content, image, video,   
 created timestamp, multimedialed multimedialed,   
 modified timestamp.

③ post\_comment  $\rightarrow$  post\_comment\_id, text content, timestamp

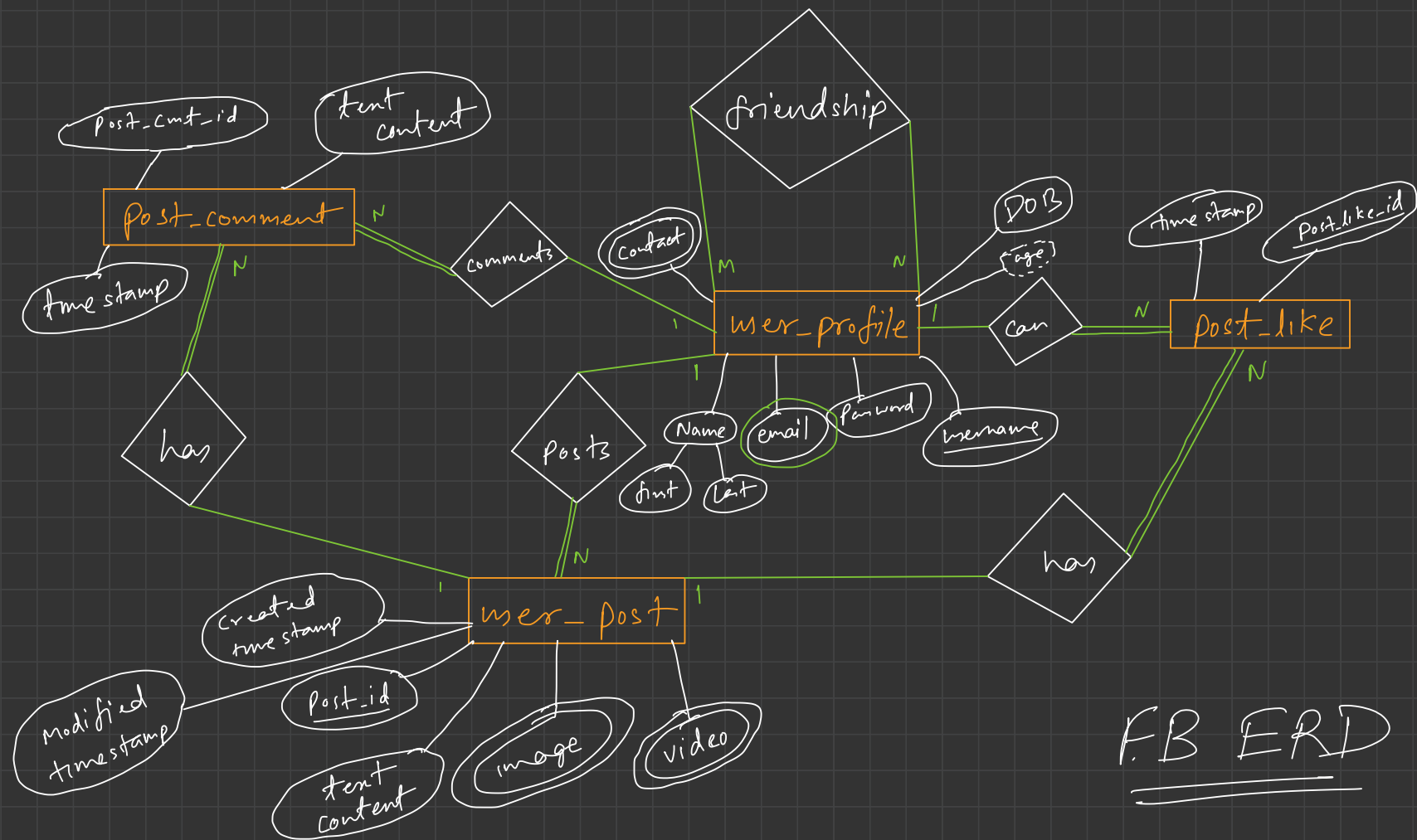
④ post\_like  $\rightarrow$  post\_like\_id, timestamp

⑤ Rel<sup>n</sup> f Constants

① user\_profile      friendship      user\_profile.  
M                                  !                                  N

② user\_profile      posts      user\_post.  
1                                  "                                  N  
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FB ERD