


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 identify entity sets.

① user_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,
 multivalued ↓ multivalued,
 created_timestamp, modified_timestamp.

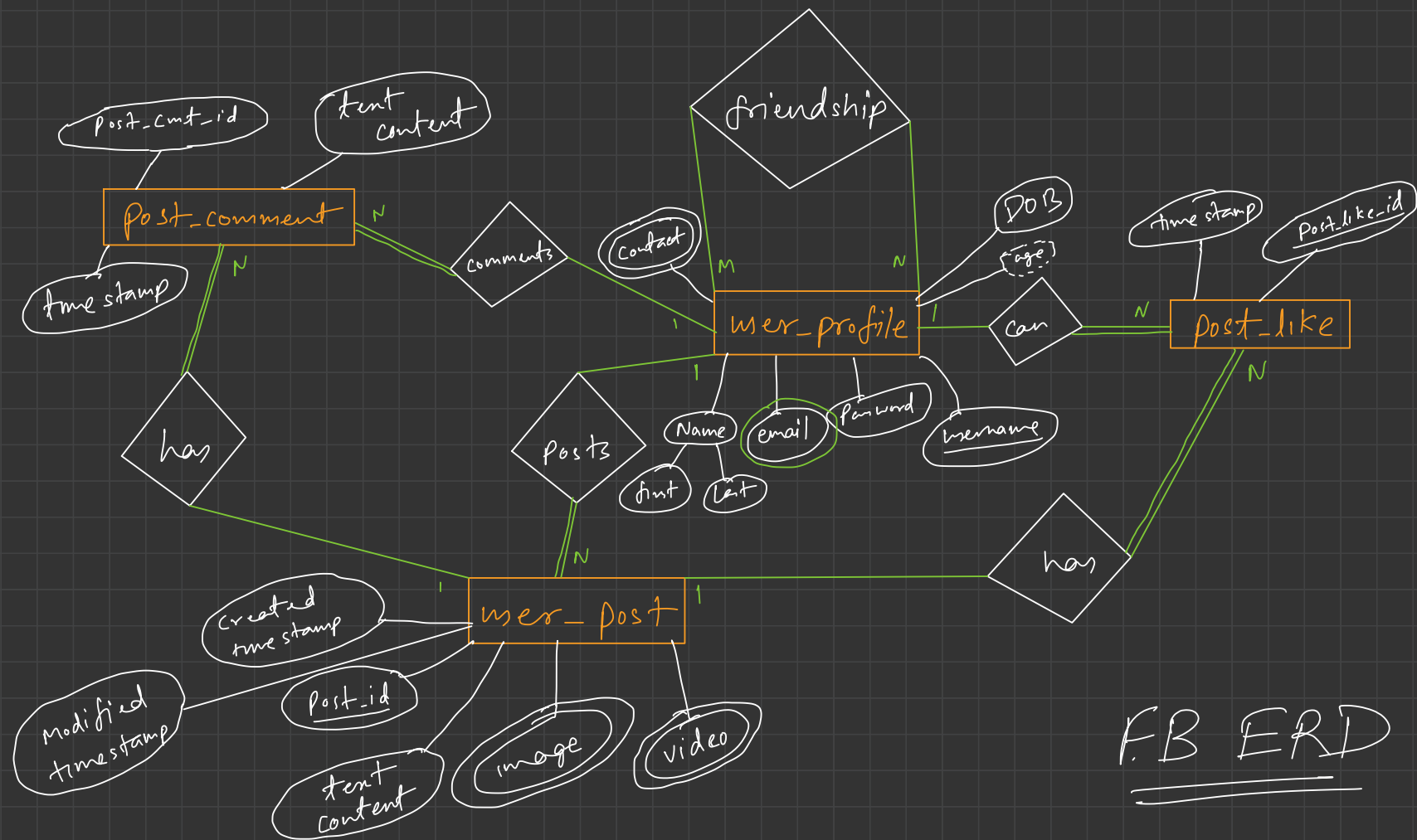
③ post_comment \rightarrow post_comment_id, text content, timestamp

④ post_like \rightarrow post_like_id, timestamp

⑤ Relⁿ f Constants

① user_profile friendship user_profile.
M ! N

② user_profile posts user_post.
1 " N
=====



FB ERD