users id [bigint, not null] email [varchar, not null, uniq] 0..Nuser_name [varchar, not null, uniq] telephone_number [varchar, not null, uniq] full_name [varchar, not null] $\bar{0}..\bar{N}$ self_introduction [varchar, not null] place [varchar, not null] website [varchar, not null] date_of_birth [date, not null] 0..Nprofile_image [blob, not null] avatar_image [blob, not null] created_at [datatime, not null] updated at [datatime, not null] 0..N`

tweets id [bigint, not null] 0..Nuser_id [bigint, not null, FK(users)] tweet [varchar(280), not null] 0..Ncreated at [datatime, not null] updated_at [datatime, not null] Ŋ..0 likes id [bigint, not null] user_id [bigint, not null, FK(users)] tweet_id [bigint, not null, FK(tweets)] created_at [datatime, not null] updated_at [datatime, not null] **follows** id [bigint, not null] 0..N user_id [bigint, not null, FK(users)] follow user id [bigint, not null, uniq] follow_user_name [varchar, not null, uniq] created_at [datatime, not null]

direct_messages

id [bigint, not null]

user_id [bigint, not null, FK(users)]

updated_at [datatime, not null]

direct_message_user_id [bigint, not null]

direct_message_user_name [varchar, not null]

direct_message [varchar, not null]

created_at [datatime, not null]

updated at [datatime, not null]

bookmarks

id [bigint, not null]

tweet_id [bigint, not null, FK(tweets)]

created_at [datatime, not null]

updated at [datatime, not null]

retweets

id [bigint, not null]

tweet_id [bigint, not null, FK(tweets)]

created_at [datatime, not null]

updated_at [datatime, not null]

notifications

id [bigint, not null]

like_id [bigint, not null, FK(likes)]

follow_id [bigint, not null, FK(follows)]

created_at [datatime, not null]

updated at [datatime, not null]