Name: 0. Sai Milch?

Reg NO:- 192325124

-OSSIGNMENT-1

Creating a database design for a social media platform with data privacy and role management is a complex table. Design a database for a social media platform where wers can post tollow others, and interact with posts.

1. conceptual ERO model:

The conceptual ERD represents high-level entities and their relationships without specifying detailed attributes or data types

+ wer: wers on the platform

* post: Content created by wen

+ comment: comments on posts

+ ince: Records of circos on posts

* follow: Tracks following relationships

* Role: Defines the role of a curu

+ userprivacy setting: privacy setting for a to control who can view their posts.

Relation ships:-

of all or can post multiple creates

* A user can have multiple comments

* A user can vike multiple posts

of a user can follow muetiple other users.

one roll.

2. logical ERD model:

The logical ERD ERD Encludes attributes, docta types

and primary and foreign keys. It is a more detailed modes that considers the structure of tables.

Attributes:

- 1. User
 - * wer-id (PK,INT)
- * wurname (VARCHAR)
- * email (VARCHAR)
- * role_9d (Fk, MT, reforme role)
- * created_at (DATETIME)

2. Role

- * role_29 (PK, WT)
- * role_name (VARCHAR)

3. post

- + post_id (PIC,+NOT)
 - + wer-id (FK, INT)
- * content (TEXT)
- * visibility (ENOM public, Followers)
- * created at (Destetime)

4. comment

- * comment_id (PK, 1NT)
- of post-id (Fr. INIT, inaterialis)

5. Pice

* like_id (PK, INT)

* post_old (FIC, INT, references post)

* uler êd (PIC, INIT, references usur)

G. FOLLOW

* Follower _ "Id (FIG, INIT, references user)

* setting type (encem - posturisibility)

* Malue (Enlum - public, Followers, primate)

3. physical ERD model:-

The physical ERD includes detailed data types specific to the squ database engine. This model as directly implementable

Table definitions

CREATE TABLE USER (

Wer-id unt primary bey
wername uarcetar (50) Not Full,
email varestar (60) Not Full,
role-id int not noull
created at DATETIME Default
foreign key (role-id) reference role trole-id)

Role Table:

CREATE TORSLE ROLL C

role-9d INT primary ley,

9;

post table:

CREATE Table post (

post-id ent primary leay, user-id ent not reall;

content Text NOT NULL,

uisibility tolum ('public', 'Foloveri', 'privati')

created-at soutetine Default current,

foreign long (user-id) References user (user-id)

);

comment table:

create Table post (

comment_id int primary way

post-id into not have

ceser-id ust not new;

content NoT Nucl;

created at patetine sefault current time forigin very (post-id) references post (post-id),

);

Cile table

create table whee (

cice - id not primary very post-id int not null, wer_id INT NOT NULL, created at detetime defauet current time stamp, foreign lay (post_id) reforences post (post_id) forcign bey (user-id) references user-curr-id)

Follow table

create table follow (

follower-id into not nell,

falousing -id INT NULL,

created_at datetime defaut current_time stamp

Foreign ley (follower_id) references user (user_id)

Foreign lang (follower-id) references user (user-id)