**DB Designing Task And ER Diagrams**

**Queries used in my database:**

CREATE DATABASE instagram;

CREATE TABLE login(

login\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

email\_id VARCHAR(30) NOT NULL,

password TEXT NOT NULL,

status BOOLEAN NOT NULL,

otp INT NOT NULL DEFAULT 0,

verified BOOLEAN NOT NULL,

status BOOLEAN NOT NULL

);

CREATE TABLE user\_tbl(

user\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

full\_name VARCHAR(30) NOT NULL,

user\_name VARCHAR(30) NOT NULL,

phone\_no BIGINT NOT NULL,

dob DATE NOT NULL

);

CREATE TABLE profile(

profile\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

profile\_pic BYTEA,

bio TEXT,

web\_link TEXT,

profile\_type VARCHAR(30) NOT NULL

);

CREATE TABLE account(

account\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

login\_id INT REFERENCES login(login\_id),

user\_id INT REFERENCES user\_tbl(user\_id),

profile\_id INT REFERENCES profile(profile\_id)

);

CREATE TABLE account\_activity(

activity\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

account\_id INT REFERENCES account(account\_id),

device VARCHAR(30) NOT NULL,

latitude NUMERIC NOT NULL,

longitude NUMERIC NOT NULL,

start\_time TIMESTAMP NOT NULL,

end\_time TIMESTAMP NOT NULL,

ip\_address INET NOT NULL,

);

CREATE TABLE post(

post\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

user\_id INT REFERENCES user\_tbl(user\_id),

post\_content BYTEA NOT NULL,

post\_caption TEXT NOT NULL,

post\_time TIMESTAMP NOT NULL,

like\_count SERIAL NOT NULL,

share\_count SERIAL NOT NULL,

comment\_count SERIAL NOT NULL,

comment\_control BOOLEAN NOT NULL

);

CREATE TABLE comment\_tbl(

comment\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

user\_id INT REFERENCES user\_tbl(user\_id),

to\_id INT NOT NULL,

post\_id INT REFERENCES post(post\_id),

comment\_content TEXT NOT NULL,

comment\_time TIMESTAMP NOT NULL,

like\_count SERIAL NOT NULL

);

CREATE TABLE follow(

follow\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

user\_id INT REFERENCES user\_tbl(user\_id),

following\_id INT NOT NULL

);

CREATE TABLE story(

story\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

user\_id INT REFERENCES user\_tbl(user\_id),

story\_content BYTEA NOT NULL,

story\_time TIMESTAMP NOT NULL,

story\_type BOOLEAN NOT NULL,

view\_count SERIAL NOT NULL,

like\_count SERIAL NOT NULL

);

CREATE TABLE close\_friend(

close\_friend\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

user\_id INT REFERENCES user\_tbl(user\_id),

friend\_id INT NOT NULL

);

CREATE TABLE message\_tbl(

message\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

user\_id INT REFERENCES user\_tbl(user\_id),

to\_id INT NOT NULL,

message\_content BYTEA NOT NULL,

content\_type VARCHAR(30) NOT NULL,

message\_time TIMESTAMP NOT NULL,

status BOOLEAN NOT NULL

);

CREATE TABLE call\_log(

call\_id INT PRIMARY KEY GENERATED ALWAYS AS IDENTITY,

user\_id INT REFERENCES user\_tbl(user\_id),

to\_id INT NOT NULL,

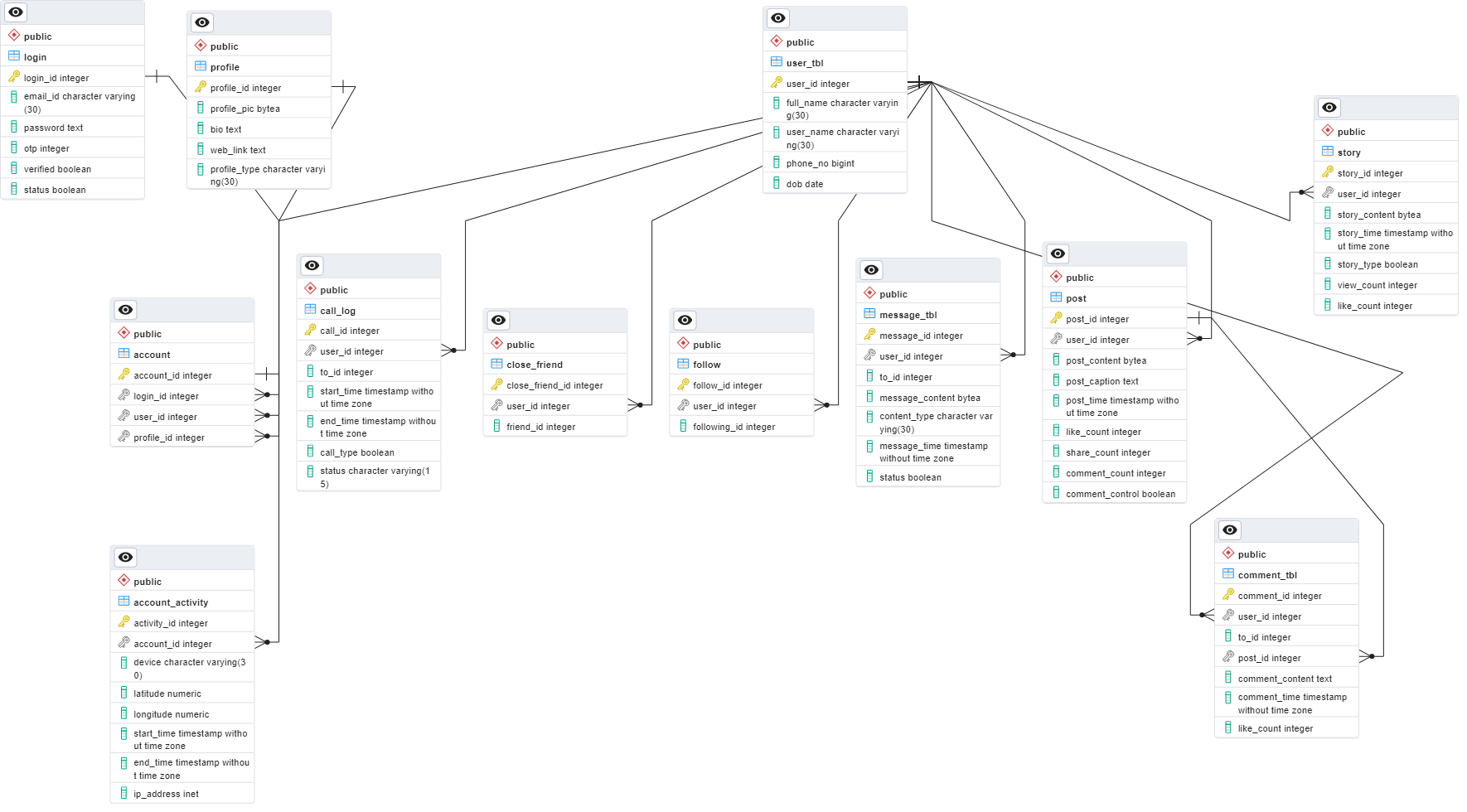
start\_time TIMESTAMP NOT NULL,

end\_time TIMESTAMP NOT NULL,

call\_type BOOLEAN NOT NULL,

status VARCHAR(15) NOT NULL

);

**ER Diagram of my Database:**