

# 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:

