Brainstorming:

- Usernames
- Email
- Passwords
- Recipes
- Ingredients
- Instructions
- Occasions
- Followers
- Groups
- Posts
- Comments

Tables:

- Users (information regarding user)
  - → User id - serial, primary key, (this is to give each user a unique identifier that cannot be repeated)
  - → Username (allows users to name themselves - varchar because it can be any character)
  - → Password (prevent someone from logging into another's account - varchar because it can be any character)
  - → Email (allow for communication and for login purposes - varchar because it can be any character)
  - → First name (to help other users identify - varchar because it can be any character)
  - → Last name (to help other users identify - varchar because it can be any character)
  - → Following (show user who is following them- int because it will be pulled from one section to another)
  - → Follower_id (each follower has a unique follower id
- Recipes (information regarding the cooking/when to cook information)
  - → Ingredients \\
  - → Instructions=====> these three are to allow the recipes to be recreated – varchar because they can be long and many different characters.
  - → Occasions//
  - → Food type - int because it will be pulled from one table to another
  - → Recipe id - serial, primary key, pulled from table to table
- Posts (info regarding a post of a recipe)
  - → Post id - serial, primary key, pulled from table to table
  - → Post content - varchar many characters
  - → User id - int pulled shows user that posted
  - → Comment id – int pulled shows comment on post
  - → Time of post - time stamp shows time posted
  - → Recipe id – int pulled shows recipe posted
- Followers (users that are connected to other users)
  - → User id -int pulled shows what user is following
  - → Username - gives name of user following
  - → Follower id - gives id to user following
- Groups
  - → Group id - unique character for each group - serial
  - → Group name – allows users to name - varchar
  - → Group members - list of users in group - int pulling
  - → Group posts - allows you to share posts from yourself or other users – int pulling
  - → User who made post

    - → Time of post
- Comments
    - → Post id
    - → User id
    - → Comment id
    - → Recipe id
    - → Group id
    - → Comment body
    - → Time of comment

Relationships

- One-to-many
    - User id: because this user id can have many posts
    - Group posts: one group can have many posts
    - Group members: one group can have many members
- One-to-one
    - Username, Password, email: one user can have one password, email, and username
- Many-to-many
    - Following: one user can have many followers while following many users
    - Posts: Pulling in post id, user id, comment id, recipe id
    - Comments: post id, user id, comment id, recipe id, group id

Columns

- See (content explanation) in tables subsections above

Table Creation Statements:

```
-- CREATE TABLE users (
--   user_id SERIAL PRIMARY KEY,
--   username VARCHAR(255) NOT NULL,
--   password VARCHAR(255) NOT NULL,
--   email VARCHAR(255) NOT NULL,
--   first_name VARCHAR(128) NOT NULL,
--   last_name VARCHAR(128) NOT NULL
--   );

--   CREATE TABLE groups(
--    group_id SERIAL PRIMARY KEY,
--    group_name VARCHAR(255) NOT NULL,
--    user_id INT REFERENCES users(user_id),
--    time_posted TIMESTAMP
--    );

-- CREATE TABLE recipes(
--   recipe_id SERIAL PRIMARY KEY,
--   ingredients VARCHAR(1000) NOT NULL,
--   instructions VARCHAR(1000) NOT NULL,
--   occasions VARCHAR(30) NOT NULL
--   );
```

```
-- CREATE TABLE followers (
--   follower_id SERIAL PRIMARY KEY,
--   user_id INT REFERENCES users(user_id)
--   );

-- CREATE TABLE posts(
--   post_id SERIAL PRIMARY KEY,
--   post_content VARCHAR(255) NOT NULL,
--   user_id INT REFERENCES users(user_id),
--   recipe_id INT REFERENCES recipes(recipe_id),
--   time_posted TIMESTAMP
--   );

-- CREATE TABLE comments (
--   comment_id SERIAL PRIMARY KEY,
--   post_id INT REFERENCES posts(post_id),
--   user_id INT REFERENCES users(user_id),
--   recipe_id INT REFERENCES recipes(recipe_id),
--   group_id INT REFERENCES groups(group_id),
--   comment_body VARCHAR(255) NOT NULL,
--   comment_time TIMESTAMP
--   );
```