Data:
User email, user password, user recipes, username, user grocery list, user occasions, user ingredients, user instructions user post

Recipes public/private?, recipe list, recipe add, recipe instructions,

Ingredients list,

assign occasions,

User table:

- User email
- User password
- Username
- User grocery list
- User create occasions

Post table:

- Post picture
- User posting
- Post public/private boolean

Recipe table:

- Recipe title
- Author recipe
- User instruction
- Post instruction

Ingredients table:

- Ingredients
- Grocery list

Columns:
Email: for contact
Password: for secure account
Username: so people can see who it is
Grocery list: for recipe purposes
Occasions: to set a recipe or recipes to a certain day
Post picture: to see a picture of the food
User posting: to show your food pictures and recipe
Post public/private: to set private and public posts
Recipe title: Name your food
Author recipe: to see who is posting
User instruction: user posts instruction
Post instruction: the author can post their instruction
Ingredients: to post the ingredients that one would need to use
Grocery list: a list of everything that would be needed.
Relationships:

- One to one
    - Author recipe ===> User grocery list; Recipe to grocery list

- One to many
    - User ===> post
    - User ===> others post
    - User grocery list ===> ingredients

- Many to many
    - Ingredients ===> recipe
    - Grocery list ===> ingredients.

```
CREATE TABLE users (user_id SERIAL PRIMARY KEY,
                    user_name VARCHAR(50),
                    user_email VARCHAR(50),
                    user_password VARCHAR(50),
                    user_grocery_list VARCHAR(1000),
                    user_occasions VARCHAR(50));

CREATE TABLE posts (post_id SERIAL PRIMARY KEY,
                    user_id INT REFERENCES users(user_id),
                    photo_url TEXT,
                     post_time TIMESTAMP,
                     post_public BOOLEAN DEFAULT TRUE)

CREATE TABLE recipes ( recipe_id SERIAL PRIMARY KEY,
                       recipe_title VARCHAR(50),
                       user_instruction VARCHAR(500),
                       author_recipe VARCHAR(500),
                       post_instrucion VARCHAR(500),

CREATE TABLE ingredients ( ingredients_id SERIAL PRIMARY KEY,
                         grocery_list VARCHAR (1000),
                         ingredients VARCHAR (1000))

CREATE TABLE recipe_ingredients ( recipe_ingredients_id SERIAL PRIMARY KEY,
                             ingredients_id INT NOT NULL REFERENCES
ingredients(ingredients_id),
                             recipe_id INT NOT NULL REFERENCES recipes(recipes_id)

CREATE TABLE occasions ( occasions_id SERIAL PRIMARY KEY,
                       user_id INT NOT NULL REFERENCES users(user_id),
                       recipe_id INT NOT NULL REFERENCES recipes(recipe_id);
```