Brainstorming:

Ingredients
Recipes
Grocery list
User account
Password
Occasions
Public or Private

Table Ideas:

Users: holds user info. Rows will be name password, email
Recipes: holds info about recipes. Rows will be ingredients, measures, what user created it, private or public
Occasions: holds info for occasions. Rows will be events, dates, food to bring, guest amount
Grocery List: holds what ingredients are on the list. Rows will be ingredients and a user, prices, amounts
Ingredients: Holds all the ingredients that have been used in recipes. Rows will be food types and such

Relationships:

One to one:
Users table to Grocery list: one user to their own grocery list of ingredients to buy
Recipe table to Grocery list: one recipe can be added to a users personal grocery list

One to many:
Users table to Occasions table: one user will create an occasion for multiple users.
Users table to Recipes table: one user can create a recipe like a post on Facebook that other users can see
Grocery list table to ingredient table: one grocery list can have multiple ingredients

Many to many:
Recipes table to Occasions table: Many recipes can be at many occasions and vice versa
Recipes to ingredients: many recipes can contain many ingredients and vice versa

Columns:

Users:
- User_id: keep track of user
- Password: for user to log in
- Username: to display on the website and to log in

Email: to send user info

GroceryList:
Grocerylist_id: to keep track of the list
User_id: to know what user it belongs to
Ingredient_id: to know what ingredients it will use

Ingredients:
Ingredient_id: to keep track of the ingredient
Name: what the name of that ingredient product is
Type: to know what category of food it falls into

Recipes:
Recipe_id: to keep track of that recipe
User_id: to know what user created it
Name: what is the name of the meal
Private: boolean to know if the recipe is private or public
Ingredient_id: what ingredients are in this recipe

Occasions:
Occasion_id: keep track of this occasion
Event_name: what is the name of the occasion
Date: what date will the occasion be set on
Guest_amount: how many people will be invited to the occasion
Recipe_id: what recipe will be served

SANDBOX:

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CREATE TABLE users(
	user_id SERIAL PRIMARY KEY,
  password TEXT,
  username VARCHAR(50),
  email VARCHAR(50)
)

CREATE TABLE ingredients(
	ingredient_id SERIAL PRIMARY KEY,
  name VARCHAR(50),
  type VARCHAR(50)
)

CREATE TABLE grocery_list(
	grocery_list_id SERIAL PRIMARY KEY,
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  user_id INT REFERENCES users(user_id),
        ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id)
)

CREATE TABLE recipes (
        recipe_id SERIAL PRIMARY KEY,
  user_id INT REFERENCES users(user_id),
  name VARCHAR(50),
  private BOOLEAN
);

CREATE TABLE recipe_ingredients(
        recipe_ingredient_id SERIAL PRIMARY KEY,
  recipe_id INT NOT NULL REFERENCES recipes(recipe_id),
  ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id)
);

CREATE TABLE occasions(
        occasion_id SERIAL PRIMARY KEY,
  event_name VARCHAR(50),
  event_date VARCHAR(50),
  guest_amount INT,
  recipe_id INT NOT NULL REFERENCES recipes(recipe_id)
);

INSERT INTO users(password, username, email)
VALUES('352523fa6', 'b0b', 'bib@gmail.com'),
('gjFf88', 'stoneCold', '213@gmail.com'),
('kofOF@', 'Ilovecookin', 'yeet@yahoo.com');

INSERT INTO ingredients(name, type)
VALUES('salt', 'spice and herb'),
('chicken', 'protein'),
('lettuce', 'veggy'),
('potatoe', 'veggy'),
('grapes', 'fruit'),
('viniger', 'spcie and herb'),
('flour', 'grain'),
('egg', 'protein');

INSERT INTO grocery_list(user_id, ingredient_id)
VALUES(1,5),
(1,4),
(1,6),
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(2,4),
(2,2),
(1,1);

INSERT INTO recipes(user_id, name, private)
VALUES(1, 'Scrambled Eggs', false),
(1, 'Chicken Dinner', true),
(2, 'Grape Salad', false);

INSERT INTO recipe_ingredients(recipe_id, ingredient_id)
VALUES(1,1),
(1,8),
(2,1),
(2,2),
(2,3),
(2,4),
(3,3),
(3,5);

INSERT INTO occasions(event_name, event_date, guest_amount, recipe_id)
VALUES('Timmys Birthday Party', 'June 5th', 15, 3),
('Grandmas 90th Birthday', 'May 29th', 41, 2),
('Independance Day Breakfast', 'July 4th', 22, 1);
```