Data to consider

Username

Password

Ingredients

Instructions

Recipes

Recipe visibility (public/private)

Grocery list

Occasion

Table Ideas

Login

- id
- Email
- Password

Recipes

- Id
- Instructions_id (fk)
- Quantity
- Login_id (fk)
- recipe _visibility (can be null)
- occasion

Ingredients

- Id
- Food

Recipes_ingredients

- Id
- Recipes_id
- Ingredients_id

Grocery_List

- id
- recipe_ingredients_id (fk)
- Login_id (fk)

Instructions

- Id
- instruction

Occasion

- Id
- occasion

Relationships

- 1. One-to-one
- 2. One-to-many
 - Login
 - Instructions
 - occasion
- 3. Many-to-many
 - Recipes
 - Ingredients
 - Grocery_list
 - recipes_ingredients

Columns

Ingredients

- 1. The string specifies what food is required in other tables.
- 2. Varchar because it's a text of food.

Recipes ingredients

- 1. Pulls the recipes and ingredients from separate tables.
- 2. Integer because they are all id's. This is an association table.

Instructions

- 1. This stores the instructions for recipes
- 2. Varchar because it's a text of the instructions.

Recipes

- 1. This stores the instruction id, quantity, connects to the login id, occasion, and if the recipe is public or private.
- 2. The recipe visibility is boolean because it is set up as true or false for public or private or null. The others are integers connecting to other id's.

Grocery list

- 1. This table lists all the ingredients from the recipe ingredients list.
- 2. The data types are all integers, pulling from other table id.

Occasion

- 1. This table is a list of occasions.
- 2. Varchar because it's a text of the occasions.

Login

- 1. Columns in this have the email and password and id.
- 2. Varchar because it's the text of the user login info.

SQL

```
CREATE TABLE login(
 id SERIAL PRIMARY KEY,
 email VARCHAR(32) NOT NULL,
 password VARCHAR(30) NOT NULL
);
CREATE TABLE occasion(
 id SERIAL PRIMARY KEY,
occasion VARCHAR(100)
);
CREATE TABLE ingredients(
  id SERIAL PRIMARY KEY,
  food VARCHAR(200) NOT NULL
  );
CREATE TABLE instructions(
  id SERIAL PRIMARY KEY,
  instruction VARCHAR(200) NOT NULL
CREATE TABLE recipes_ingredients(
  id SERIAL PRIMARY KEY,
  recipes id INT NOT NULL REFERENCES recipes(id),
  ingredients_id INT NOT NULL REFERENCES ingredients(id)
  );
CREATE TABLE recipes(
 id SERIAL PRIMARY KEY,
 instructions_id INT NOT NULL REFERENCES instructions(id),
```

```
name VARCHAR(100) NOT NULL,
login_id INT NOT NULL REFERENCES login(id),
recipe_visibility BOOLEAN,
occasion INT REFERENCES occasion(id)
);

CREATE TABLE grocery_list(
id SERIAL PRIMARY KEY,
recipes_ingredients_id INT NOT NULL REFERENCES recipes_ingredients(id),
login_id INT NOT NULL REFERENCES login(id)
);
```