

- Email
- Password
- Username
- Recipes (including ingredients, instruction)
- Private Recipes (boolean)
- Occasions

Table Ideas

User

- Email - login authentication, VARCHAR because text
- Password login authentication - VARCHAR because text
- Username - login authentication, VARCHAR because text
- User ID - Because it creates a unique user id, used SERIAL PRIMARY KEY to create a unique number

Recipes

- Ingredients foreign key - To show what ingredients are needed for a certain recipe - used INT NOT NULL REF to connect with a different table
- Recipe Key - To differentiate different recipes by giving them a unique number, used SERIAL PRIMARY KEY to create a unique number
- Instruction foreign Key - To give instructions for certain recipes, used INT NOT NULL REF to connect with a different table
- User ID - To differentiate which user created a certain recipe - used INT NOT NULL REF to connect with a different table
- Privatization (boolean) - Accessibility, used BOOLEAN to be able to toggle easily with true/false
- Occasion ID (set default any) - To set recipes to different occasions, used INT NOT NULL REF to connect with a different table

Instructions

- Instructions - TEXT because it is text

Ingredients

- Ingredients - TEXT because it is text
- Ingredients Key - unique number, used SERIAL PRIMARY KEY to create a unique number

Grocery List

- Ingredients foreign key - to show what ingredients are in a specific grocery list, used INT NOT NULL REF to connect with a different table
- User ID - show which users grocery list it is, used INT NOT NULL REF to connect with a different table

Occasions

- Occasion Types - TEXT because it is text
- Occasion Key- creates unique number for occasions, used SERIAL PRIMARY KEY to create a unique number

Relationships

- One to one
 - Recipes====>Instructions = Instructions are specifically for one recipe and on recipe only
- One to many
 - Occasion ==> recipe - Multiple recipes can have an occasion, but they can only have one occasion
- Many to many
 - Recipes =====> Occasion- There can be multiple recipes in an occasion and
 - Ingredients =====> Grocery list- There can be multiple ingredients in a grocery list and ingredients can be in different recipes or grocery lists

```
CREATE TABLE users(  
  user_id SERIAL PRIMARY KEY,  
  username VARCHAR(50),  
  user_password VARCHAR(500),  
  email VARCHAR(100)  
);  
CREATE TABLE recipes(  
  recipe_id SERIAL PRIMARY KEY,  
  user_id INT NOT NULL REFERENCES users(user_id),  
  instruction_id INT NOT NULL REFERENCES instructions(instruction_id),  
  occasion_id INT NOT NULL REFERENCES occasions(occasion_id),  
  private BOOLEAN NOT NULL DEFAULT private,  
  ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id)  
);  
CREATE TABLE instructions(  
  instruction_id SERIAL PRIMARY KEY,  
  instructions TEXT  
);  
CREATE TABLE ingredients(  
  ingredient_id SERIAL PRIMARY KEY,  
  ingredients TEXT,  
  recipe_id INT NOT NULL REFERENCES recipes(recipe_id)  
);  
  
CREATE TABLE grocerylist(  
  grocery_id SERIAL PRIMARY KEY,  
  ingredients_id INT NOT NULL REFERENCES ingredients(ingredient_id),
```

```
    user_id INT NOT NULL REFERENCES users(user_id)  
);
```

```
CREATE TABLE occasions(  
    occasion_id SERIAL PRIMARY KEY,  
    occasion TEXT,  
    recipe_id INT NOT NULL REFERENCES recipes(recipe_id)  
);
```