

Brainstorming:

USER

- User email
- User password
- User grocery list

POST

- User recipes

Recipes

- Ingredients
- User who submitted the recipe

Occasions

- User who created the occasion
- Recipes to use for the occasion
-

TABLES:

-

User

- User_id SERIAL PRIMARY KEY
- User_email VARCHAR
- User_password VARCHAR
- User_grocery_list INT NOT NULL REFERENCE Grocery_list(grocery_list_id)

Ingredients_recipes --This is an association table

- Ingredient_recipes_id SERIAL PRIMARY KEY
- Ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id)
- Recipe_id INT NOT NULL REFERENCES recipes(recipe_id)

ingredients

- Ingredient_id SERIAL PRIMARY KEY
- Ingredient_name VARCHAR
- Description VARCHAR

Recipes

- Recipe_id SERIAL PRIMARY KEY

- Recipe_name VARCHAR
- Creator_id INT NOT NULL REFERENCES users(user_id)
- Instructions TEXT

Occasions

- Occasion_id SERIAL PRIMARY KEY
- Occasion_name VARCHAR
- Occasion_location VARCHAR
- Occasion_date DATE
- User_id INT NOT NULL REFERENCES users(user_id)

Occasion_recipes --This is an association table

- Occasion_recipe_id SERIAL PRIMARY KEY
- Occasion_id INT NOT NULL REFERENCES occasions(occasion_id)
- Recipe_id INT NOT NULL REFERENCES recipes(recipe_id)

Grocery_list

- Grocery_list_id SERIAL PRIMARY KEY
- User_id INT NOT NULL REFERENCES users(user_id)
- List INT NOT NULL REFERENCES ingredients(ingredient_id)

Grocery_ingredients

- grocery_ingredient_id SERIAL PRIMARY KEY
- grocery_list_id INT NOT NULL REFERENCES grocery_list(grocery_list_id)
- grocery_ingredient_name INT NOT NULL REFERENCES ingredients(ingredient_id)

RELATIONSHIPS:

One to one

- User to grocery list

Many to many

- Ingredients to recipes (many ingredients many recipes)
- Recipes to occasions (many occasions many recipes)

One to many

- User to recipes (one user many recipes)
- User to occasions (one user many occasions)
- ingredients to grocery list (one grocery list many ingredients)

COLUMNS:

```
CREATE TABLE users(  
  user_id SERIAL PRIMARY KEY, --TO MAKE A SELF INCREMENTING NUMBER KEY  
  user_email VARCHAR(50), --TO LIMIT THE LENGTH OF THE STRING  
  user_password VARCHAR(50) --TO LIMIT THE LENGTH OF THE STRING  
);
```

```
CREATE TABLE ingredients(  
  ingredient_id SERIAL PRIMARY KEY, --TO MAKE A SELF INCREMENTING NUMBER KEY  
  ingredient_name VARCHAR(30), --TO LIMIT THE LENGTH OF THE STRING  
  description VARCHAR(50) --TO LIMIT THE LENGTH OF THE STRING  
);
```

```
CREATE TABLE recipes(  
  recipe_id SERIAL PRIMARY KEY, --TO MAKE A SELF INCREMENTING NUMBER KEY  
  recipe_name VARCHAR(30), --TO LIMIT THE LENGTH OF THE STRING  
  creator_id INT NOT NULL REFERENCES users(user_id) --TO REFERENCE ANOTHER  
TABLE  
);
```

```
CREATE TABLE ingredients_recipes(  
  ingredient_recipes_id SERIAL PRIMARY KEY, --TO MAKE A SELF INCREMENTING  
NUMBER KEY  
  ingredient_id INT NOT NULL REFERENCES ingredients(ingredient_id), --TO REFERENCE  
ANOTHER TABLE  
  recipe_id INT NOT NULL REFERENCES recipes(recipe_id)-- TO REFERENCE ANOTHER  
TABLE  
);
```

```
CREATE TABLE occasions(  
  occasion_id SERIAL PRIMARY KEY, --TO MAKE A SELF INCREMENTING NUMBER KEY  
  occasion_name VARCHAR(50), --TO LIMIT THE LENGTH OF THE STRING  
  occasion_location VARCHAR(50), --TO LIMIT THE LENGTH OF THE STRING  
  occasion_date DATE, --TO CREATE THE DATE OF THE OCCASION  
  user_id INT NOT NULL REFERENCES users(user_id)-- TO REFERENCE ANOTHER TABLE  
);
```

```
CREATE TABLE occasion_recipes(  

```

```
occasion_recipe_id SERIAL PRIMARY KEY, --TO MAKE A SELF INCREMENTING NUMBER KEY
occasion_id INT NOT NULL REFERENCES occasions(occasion_id), --TO REFERENCE ANOTHER TABLE
recipe_id INT NOT NULL REFERENCES recipes(recipe_id) --TO REFERENCE ANOTHER TABLE
);
```

```
CREATE TABLE grocery_list(
grocery_list_id SERIAL PRIMARY KEY, --TO MAKE A SELF INCREMENTING NUMBER KEY
user_id INT NOT NULL REFERENCES users(user_id), --TO REFERENCE ANOTHER TABLE
list INT NOT NULL REFERENCES ingredients(ingredient_id) --TO REFERENCE ANOTHER TABLE
);
```

```
CREATE TABLE grocery_ingredients(
grocery_ingredient_id SERIAL PRIMARY KEY, --TO MAKE A SELF INCREMENTING NUMBER KEY
grocery_list_id INT NOT NULL REFERENCES grocery_list(grocery_list_id), --TO REFERENCE ANOTHER TABLE
grocery_ingredient_name INT NOT NULL REFERENCES ingredients(ingredient_id) --TO REFERENCE ANOTHER TABLE
);
```

```
INSERT INTO users(user_email, user_password)
VALUES('bob.farm@gmail.com', 'BobbyFarmer')
```