

recipe creating/sharing and grocery list app

- users can sign into the app with their email and password
- users can create recipes with ingredients and instructions
- recipes can be marked as public or private
- users can view other people's recipes
- ingredients from recipes can be added to user's grocery lists
- users can create their own special events and assign recipes to special events

Brainstorming & Table Ideas

- User table w/ user_id, email, password,
- Recipe table ref to user_id (view other's recipes)
 - Recipe_id, instructions, public BOOL
- Ingredients table ref recipe_id
 - ingredient_id, name, amount
- Groceries list ref user_id, ref ingredient_id
 - Grocery_id, grocery, price, quantity
- Special events ref user_id, ref recipe_id
 - Event_id, name, date, attendees

Relationships

- Users (one-to-one)
 - Does not refer to any other table
- Recipes (one-to-many)
 - Refers to one table
- Ingredients (one-to-many)
 - Refers to one table
 - Recipes have many ingredients/ingredients many recipes
- Groceries (many-to-many)
 - Refers to multiple tables
 - Users have many groceries/groceries many users
 - Ingredients can have many groceries/groceries many ingredients
- Special Events (many-to-many)
 - Refers to multiple tables
 - Users can have many events/events many users
 - Recipes can have many events/events many recipes

Part 2 / Step 2

- Users:
 - user_id => primary identifier of table
 - Email => varchar(40) => emails vary in length and characters
 - Password => text => hashed pass varies in length
- Recipes:
 - Recipe_id => primary identifier of table
 - User_id => foreign key link to user table
 - Instructions => text => instructions vary largely in length
 - Public_display => boolean => public/private or false/true
- Ingredients:
 - Ingredient_id => primary identifier of table
 - Ingredient_name => varchar(55) => text
 - Amount => varchar(30) => not int because unit of measure will be included
- Grocery_Lists
 - List_id => primary identifier of table
 - User_id => foreign key link to user table
 - Grocery_name => varchar(65) => text
 - Dollar_price => integer => in dollars
 - Quantity => integer => must buy a whole of product
- Recipes_Ingredients:
 - Recipe_ingredient_id => primary identifier of table
 - Recipe_id => foreign key link recipe
 - Ingredient_id => foreign key link ingredient
- List_Ingredients:
 - List_ingredient_id => primary identifier of table
 - List_id => foreign key link to list table
 - Ingredient_id => foreign key link to ingredient table
- Special Events:
 - Event_id => primary identifier of table
 - User_id => foreign key link user
 - Recipe_id => foreign key link recipe
 - Event_name => varchar(65) => text
 - Date => date => will prompt to enter YYYY-MM-DD
 - Attendees => integer => whole number guests

Part 3 - SQL Sandbox Input Code

```
CREATE TABLE users(  
  user_id SERIAL PRIMARY KEY,  
  email VARCHAR(40),  
  password TEXT  
);
```

```
CREATE TABLE recipes(  
  recipe_id SERIAL PRIMARY KEY,  
  user_id INTEGER REFERENCES users(user_id),  
  instructions TEXT,  
  public_display BOOLEAN  
);
```

```
CREATE TABLE ingredients(  
  ingredient_id SERIAL PRIMARY KEY,  
  user_id INTEGER REFERENCES users(user_id),  
  ingredient_name VARCHAR(55),  
  amount VARCHAR(30)  
);
```

```
CREATE TABLE grocery_lists(  
  list_id SERIAL PRIMARY KEY,  
  user_id INTEGER REFERENCES users(user_id),  
  grocery_name VARCHAR(65),  
  dollar_price FLOAT,  
  quantity INTEGER  
);
```

```
CREATE TABLE recipes_ingredients(  
  recipe_ingredient_id SERIAL PRIMARY KEY,  
  user_id INTEGER REFERENCES users(user_id),  
  recipe_id INTEGER REFERENCES recipes(recipe_id),  
  ingredient_id INTEGER REFERENCES  
ingredients(ingredient_id)  
);
```

```
CREATE TABLE list_ingredients(  
  list_ingredient_id SERIAL PRIMARY KEY,  
  user_id INTEGER REFERENCES users(user_id),  
  list_id INTEGER REFERENCES recipes(recipe_id),
```

```
    ingredient_id INTEGER REFERENCES  
ingredients(ingredient_id)  
);
```

```
CREATE TABLE special_events(  
    event_id SERIAL PRIMARY KEY,  
    user_id INTEGER REFERENCES users(user_id),  
    recipe_id INTEGER REFERENCES recipes(recipe_id),  
    event_name VARCHAR(65),  
    date DATE,  
    attendees INTEGER  
);
```