Brainstorming

login
recipes
ingredients
instructions
recipe_visibility
grocery list
occasions

Table Ideas

login
   id
   email
   passord
recipes
   id
   ingredients_id (fk)
   instructions_id (fk)
   quantity
   login_id (fk)
      ingredients
         id
         ingredients
      instructions
         id
         instructions
recipe_visibility
   id
   recipe_id (fk)
   login_id (fk)
grocery_list
   id
   ingredients_id
   login_id (fk)
occasions
   id
   login_id
   recipe_id

Relationships

   One-to-One

One-to-many
   login
   instructions
   occasions
many-to-many
   recipes
   ingredients
   grocery_list
   recipe_visibility

Columns

ingredients
   id: identification.
   ingredients: The string specifying what food is required in other tables. (Text)
recipe_ingredients
   id: identification
   ingredients_id: integer that calls the id of a specific ingredient.
   recipe_id: integer that calls the recipe that requires ingredient id.
recipes
   id: identification
   instructions_id: integer that requires a foreign key, instructions to print text.
   quantity: integer that specifies how much of an ingredient is needed
   login_id: integer that specifies the user that owns the recipe.
   occasions: integer that specifies a foreign id of an occasion
instructions
   id: identification
   instructions: string that can contain any instructions text.
occasions
   id: identification
   occasion: text containing a specific occasion
grocery_list
   id: identification
   ingredients_id: foreign key identifying the ingredient in the list.
   login_id: integer that specifies the user
login
   id: identification
   email: string that the user types to log in.
   password: string that the user types to log in.

SQL

```sql
CREATE TABLE login(
    id SERIAL PRIMARY KEY,
    email VARCHAR(255) NOT NULL,
    password VARCHAR(255) NOT NULL
);

CREATE TABLE ingredients(
    id SERIAL PRIMARY KEY,
    ingredients VARCHAR(255)
);

CREATE TABLE occasions(
    id SERIAL PRIMARY KEY,
    occasion VARCHAR(255)
);

CREATE TABLE instructions(
    id SERIAL PRIMARY KEY,
    instructions VARCHAR(255)
);

CREATE TABLE recipes(
    id SERIAL PRIMARY KEY,
    instructions_id int NOT NULL,
    quantity int NOT NULL,
    login_id int NOT NULL REFERENCES login(id),
    recipe_visibility bool,
    occasions int REFERENCES occasions(id)
);

CREATE TABLE recipe_ingredients(
    id SERIAL PRIMARY KEY,
    ingredients_id int NOT NULL REFERENCES ingredients(id),
    recipe_id int NOT NULL REFERENCES recipes(id)
);

CREATE TABLE grocery_list(
    id SERIAL PRIMARY KEY,
    ingredients_id int NOT NULL REFERENCES recipe_ingredients(id),
    login_id int NOT NULL REFERENCES login(id)
);
```