

```
CREATE TABLE users (  
    user_ID SERIAL PRIMARY KEY,  
    grocery_list_ID integer REFERENCES Recipes(recipe_ID),  
    user_password varchar,  
    first_name varchar,  
    last_name varchar,  
    user_email varchar,  
    security_questions varchar  
);
```

```
CREATE TABLE Recipes (  
    recipe_ID integer PRIMARY KEY,  
    user_ID integer REFERENCES users(user_ID),  
    occasion_ID integer REFERENCES occasions(occasion_ID),  
    grocery_list_ID integer REFERENCES Recipes(grocery_list_ID),  
    photo_ID integer REFERENCES Photos(photo_ID),  
    recipe_title text,  
    recipe_description text,  
    type varchar,  
    size varchar,  
    prep_time time,  
    cook_time time,  
    cost decimal,  
    instructions text,  
    private boolean,  
    timestamp timestamp  
);
```

```
CREATE TABLE "Grocery List" (  
    
```

```
    grocery_list_ID integer PRIMARY KEY,  
    ingredient_ID integer REFERENCES Ingredients(ingredient_ID),  
    recipe_ID integer REFERENCES Recipes(recipe_ID),  
    user_ID integer REFERENCES users(user_ID),  
    timestamp timestamp  
);
```

```
CREATE TABLE Occasions (  
    occasion_ID integer PRIMARY KEY,  
    user_ID integer REFERENCES users(user_ID),  
    recipe_ID integer REFERENCES Recipes(recipe_ID),  
    season varchar,  
    occasion varchar  
);
```

```
CREATE TABLE "Recipe Ingredients" (  
    recipeIngredients_ID integer PRIMARY KEY,  
    ingredient_ID integer REFERENCES Ingredients(ingredient_ID),  
    quantity_ID integer REFERENCES Measurement Quantity(quantity_ID),  
    unit_ID integer REFERENCES Measurement Units(unit_ID),  
    recipe_ID integer REFERENCES Recipes(recipe_ID)  
);
```

```
CREATE TABLE Photos (  
    photo_ID integer PRIMARY KEY,  
    user_ID integer REFERENCES users(user_ID),  
    recipe_ID integer REFERENCES Photos(photo_ID),  
    occasion_ID integer REFERENCES Occasions(occasion_ID),  
    filename varchar,
```

```
        timestamp timestamp
    );
```

```
CREATE TABLE Comments (
    comment_ID integer PRIMARY KEY,
    user_ID integer REFERENCES users(user_ID),
    photo_ID integer REFERENCES Photos(photo_ID),
    recipe_ID integer REFERENCES Recipes(recipe_ID),
    rating integer,
    comment text
);
```

```
CREATE TABLE "Measurement Units" (
    unit_ID integer PRIMARY KEY,
    unit_description varchar
);
```

```
CREATE TABLE "Measurement Quantity" (
    quantity_ID integer PRIMARY KEY,
    quantity varchar
);
```

```
CREATE TABLE Ingredients (
    ingredient_ID integer PRIMARY KEY,
    ingredient_name varchar
);
```