

```
CREATE TABLE users (  
  user_id SERIAL PRIMARY KEY,  
  password VARCHAR(30),  
  email VARCHAR (50),  
  userfirstname VARCHAR(50),  
  userlastname VARCHAR(50)  
);
```

```
CREATE TABLE ingredients(  
  ingredient_id SERIAL PRIMARY KEY,  
  ingredient_name VARCHAR(30)  
);
```

```
CREATE TABLE ingredientslists(  
  ingredientlist_id SERIAL PRIMARY KEY,  
  Ingredientslist_num INT,  
  ingredientname INT NOT NULL REFERENCES ingredients(ingredient_id)  
);
```

```
CREATE TABLE instructions(  
  instructions_id SERIAL PRIMARY KEY,  
  instructions_name VARCHAR(30),  
  instructions_ingredients INT NOT NULL REFERENCES ingredients(ingredient_id),  
  instructions_text VARCHAR(500)  
);
```

```
CREATE TABLE recipes (  
  recipe_id SERIAL PRIMARY KEY,  
  recipe_name VARCHAR(30),  
  recipe_author INT NOT NULL REFERENCES users(user_id),  
  recipe_instructions INT NOT NULL REFERENCES instructions(instructions_id)  
  
);
```

```
CREATE TABLE grocerylists (  
  grocerylist_id SERIAL PRIMARY KEY,  
  user_id INT NOT NULL REFERENCES users(user_id),  
  grocerylistingredients INT NOT NULL REFERENCES ingredientslists(ingredientlist_id)  
);
```

```
CREATE TABLE occasions(  
  occasion_id SERIAL PRIMARY KEY,  
  user_id INT NOT NULL REFERENCES users(user_id),  
  recipe_id INT NOT NULL REFERENCES recipes(recipe_id)
```

);

```
INSERT INTO users(password, email, userfirstname, userlastname)
VALUES ('1234', 'bob@bob.bob', 'bob', 'joe'),('5678', 'phil@yo.dude', 'phil', 'dude'),
('9012', 'tate@iam.awesome', 'tate', 'frost'),('3456', 'joe@gov', 'joe', 'bo');
```

```
INSERT INTO ingredients(ingredient_name)
VALUES ('flour'),('milk'),('eggs'),('sugar'),('yeast'),('salt');
```

```
INSERT INTO ingredientslists(ingredientslist_num, ingredientname)
VALUES (1, 1), (1, 2), (1, 3);
```

```
INSERT INTO instructions(instructions_name, instructions_ingredients, instructions_text)
VALUES ('MUSH', 1, 'put stuff in bowl, done');
```

```
INSERT INTO recipes (recipe_name, recipe_author, recipe_instructions)
VALUES ('SCHLOP', 2, 1);
```

```
INSERT INTO grocerylists (user_id, grocerylistingredients)
VALUES (3, 1);
```

```
INSERT INTO occasions (user_id, recipe_id)
VALUES (4, 1);
```