CPSC 304 Project Cover Page

Milestone #: 2

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Group Number: 21

Name	Student Number	CS Alias (Userid)	Preferred Email Address
Alex Lee	4422902962 290296	al7031	alexmy31@gmail.com
Erica Buchanan	55077747	erica4	eeobuchanan@gmail.com
Brooklyn Cheng	68614932	bcheng7	brooklyncheng2002@gmail.com

By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above.

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

Project Description

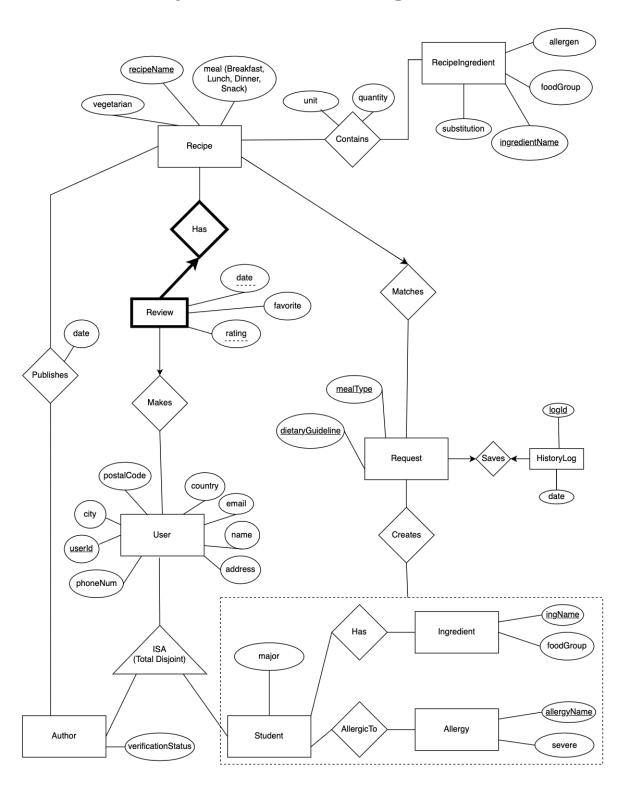
Brief Description

The domain of the application is a need-based cookbook for university students. We will be creating a cooking database for university students with recipes that they can query for, given the ingredients they have. These recipes are also able to be reviewed and have their associated author so that the students can have all of the information they need before deciding on their recipe.

ERD Updates (see diagram below)

- Weak entity changed as recipe ingredient was not a valid weak entity (it could be identified without the parent key, as indicated by the TA)
- Attributes added and altered in User, Request, RecipeIngredient, Author for FDs and to make more sense
- HistoryLog updated to have a one-to-one relationship with the request it is saving
- studentId changed to be major as we already had a way to identify the student uniquely (userId)
- Attributes renamed to be lowercase for relational schema

Updated ER Diagram



Relational Schema

LEGEND: PK underlined, FK bolded, CK italicized

Note: Primary keys are a subset of candidate keys and thus are not italicized. Primary keys are also already NON NULL, so those are not stated.

RecipeMatches(<u>recipeName</u>: VARCHAR(50), vegetarian: BIT, meal: VARCHAR(50), **mealType**: VARCHAR(50), **dietaryGuideline**: VARCHAR(50))

- Combined w/ Matches relationship table

RecipeIngredient(<u>ingredientName</u>: VARCHAR(50), foodGroup: VARCHAR(50), allergen: BIT, substitution: VARCHAR(50))

Contains(<u>ingredientName</u>: VARCHAR(50), <u>recipeName</u>: VARCHAR(50), unit: VARCHAR(50), quantity: INTEGER)

- unit and quantity are NOT NULL

ReviewMakesHas(<u>date</u>: DATE, <u>rating</u>: INTEGER, <u>recipeName</u>: VARCHAR(50), **userId**: VARCHAR(50), favorite: BIT)

- combined with Makes and Has relationship tables

RequestSaves(<u>mealType</u>: VARCHAR(50), <u>dietaryGuideline</u>: VARCHAR(50), logId: VARCHAR(50), date: DATE)

- logId is UNIQUE
- HistoryLog table combined w/ Saves relationship table

User(<u>userId</u>: VARCHAR(50), city: VARCHAR(50), *email*: VARCHAR(50), name: VARCHAR(50), postalCode: VARCHAR(50), address: VARCHAR(50), country: VARCHAR(50), phoneNum: VARCHAR(50))

- email and name are NOT NULL
- email is unique

Author(userId: VARCHAR(50), verificationStatus: BIT)

Student(<u>userId</u>: VARCHAR(50), major: VARCHAR(50))

Ingredient(ingName: VARCHAR(50), foodGroup: VARCHAR(50))

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Allergy(<u>allergyName</u>: VARCHAR(50), severe: BIT)

Publishes(<u>userId</u>: VARCHAR(50), <u>recipeName</u>: VARCHAR(50), date: DATE)

Has(<u>userId</u>: VARCHAR(50), <u>ingName</u>: VARCHAR(50))

AllergicTo(<u>userId</u>: VARCHAR(50), <u>allergyName</u>: VARCHAR(50))

Creates(userId: VARCHAR(50), ingName: VARCHAR(50), allergyName: VARCHAR(50),

mealType: VARCHAR(50), dietaryGuideline: VARCHAR(50))

Functional Dependencies

Contains:

- FDs: ingredientName, recipeName -> unit, quantity
- Keys are ingredientName and recipeName, therefore Contains is in BCNF

ReviewMakesHas:

- FDs: date, rating, recipeName → userId, favorite
- Keys are date, rating, and recipeName therefore ReviewMakesHas in BCNF

RequestSaves:

- FDs: mealType, dietaryGuideline → logId, date
- Keys are mealType and dietaryGuideline therefore RequestSaves in BCNF

Allergy:

- FDs: allergyName → severe
- Key is allergyName, therefore Allergy is in BCNF

Author:

- FDs: userId → verificationStatus
- Key is verificationStatus, therefore Author is in BCNF

Student:

- FDs: userId → major
- Key is userId, therefore Student is in BCNF

Student:

- FDs: userId → major
- Key is userId, therefore Student is in BCNF

Ingredient:

- FDs: ingName → foodGroup
- Key is ingname, therefore Ingredient is in BCNF

Publishes:

- FDs: userId, recipeName → date
- Key is userId, therefore recipeName is in BCNF

Creates, AllergicTo and Has:

Only trivial cases, so we have not included them.

RecipeIngredient:

- FDs:
 - ingredientName -> foodGroup, allergen
 - ingredientName, allergen -> substitution
- Keys:
 - ingredientName⁺ = {ingredientName, foodGroup, allergen, substitution}
 - ingredientName is the CK (and chosen PK) for this relationship, which means that ingredientName, allergen is a superkey. This relationship is in BCNF.

RecipeMatches:

- FDs:
 - recipeName → vegetarian, meal, mealType, dietaryGuideline
 - mealType → meal
- Keys:
 - recipeName⁺ = {recipeName, vegetarian, meal, mealType, dietaryGuideline}
 - mealType⁺ = {mealType, meal}
- The candidate key (and chosen PK) is recipeName.

The following FD violates BCNF, meaning RecipeMatches is not in BCNF: mealType → meal where mealType⁺ = {mealType, meal}

User:

- FDs:
 - userId → name, address, phoneNum, email
 - email → userId
 - postalCode → city, country
 - address → postalCode
 - phoneNum → country
- Keys:
 - userId⁺ = {userId, name, address, phoneNum, country, postalCode, city, email}

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- email⁺ = {email, userId, name, address, phoneNum, country, postalCode, city}
- The candidate keys are userId and email, but based on our ERD we know userId is the chosen PK.

The following FDs violate 3NF, meaning User is not in 3NF:

```
postalCode+ = {postalCode, city, country}
address+ = {address, postalCode, city, country}
phoneNum+ = {phoneNum, country}
```

Normalization

In the previous step, we determined that RecipeMatches, User and RecipeIngredient are not in BCNF, so we will be normalizing them.

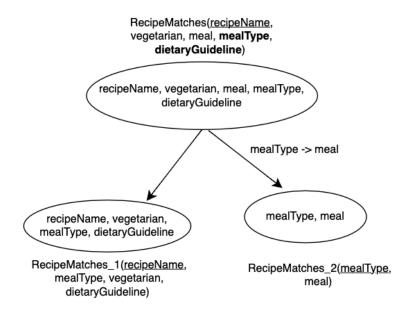
RecipeMatches:

Given schema:

RecipeMatches(<u>recipeName</u>, vegetarian, meal, **mealType**, **dietaryGuideline**)

FDs:

recipeName \rightarrow vegetarian, meal, mealType, dietaryGuideline mealType \rightarrow meal



BCNF normalized schemas:

RecipeMatches_1(<u>recipeName</u>, vegetarian, **mealType**, **dietaryGuideline**) RecipeMatches_2(<u>mealType</u>, meal)

User:

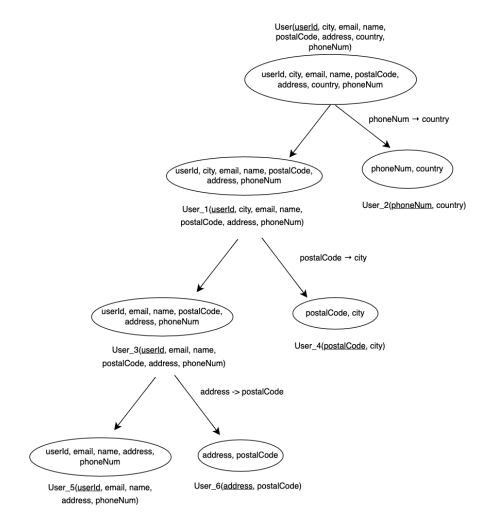
Given schema:

User(userId, city, email, name, postalCode, address, country, phoneNum)

FDs:

userId → email, name, address, phoneNum postalCode → city, country

address → postalCode phoneNum → country



BCNF normalized schemas:

User_2(<u>phoneNum</u>, country)

User_4(postalCode, city)

User_5(<u>userId</u>, email, name, address, phoneNum)

 $User_6(\underline{address}, postalCode)$

SQL DDL CREATE Statements

```
CREATE TABLE RequestSaves (
                       VARCHAR(50),
 mealType
                       VARCHAR(50),
 dietaryGuideline
                       VARCHAR(50)
 logId
                                      UNIQUE,
 date
                       DATE,
 PRIMARY KEY (mealType, dietaryGuideline)
);
CREATE TABLE RecipeMatches_1 (
                       VARCHAR(50) PRIMARY KEY,
 recipeName
 vegetarian
                       BIT,
 mealType
                       VARCHAR(50),
                       VARCHAR(50),
 dietaryGuideline
 FOREIGN KEY (mealType, dietaryGuideline) REFERENCES RequestSaves
   ON DELETE CASCADE
   ON UPDATE CASCADE
);
CREATE TABLE RecipeMatches 2 (
                                      PRIMARY KEY,
                       VARCHAR(50)
 mealType
                       VARCHAR(50),
 meal
 FOREIGN KEY (mealType) REFERENCES RecipeMatches 1
     ON DELETE CASCADE
     ON UPDATE CASCADE
);
CREATE TABLE RecipeIngredient (
                       VARCHAR(50) PRIMARY KEY,
 ingredientName
 foodGroup
                       VARCHAR(50),
 allergen
                       BIT,
                       VARCHAR(50),
 substitution
);
**since contains is a keyword we have to put brackets around it in SQL statements**
```

```
CREATE TABLE [Contains] (
  ingredientName
                       VARCHAR(50),
  recipeName
                       VARCHAR(50),
  unit
                      VARCHAR(20)
                                     NOT NULL,
  quantity
                      INTEGER
                                  NOT NULL,
  PRIMARY KEY (ingredientName, recipeName),
  FOREIGN KEY (ingredientName) REFERENCES RecipeIngredient
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  FOREIGN KEY (recipeName) REFERENCES RecipeMatches 1
    ON DELETE CASCADE
   ON UPDATE CASCADE
);
CREATE TABLE User 2 (
  phoneNum
                 VARCHAR(50) PRIMARY KEY,
  country
                 VARCHAR(50)
  FOREIGN KEY (phoneNum) REFERENCES User 5
     ON DELETE CASCADE
     ON UPDATE CASCADE
);
CREATE TABLE User 4 (
                 VARCHAR(50)
  postalCode
                              PRIMARY KEY,
                 VARCHAR(50)
  FOREIGN KEY (postalCode) REFERENCES User 6
     ON DELETE CASCADE
     ON UPDATE CASCADE
);
CREATE TABLE User 5 (
  userId
                 VARCHAR(50)
                              PRIMARY KEY,
                 VARCHAR(50),
  email
                 VARCHAR(50),
  name
  address
                 VARCHAR(50),
  phoneNum
                 VARCHAR(50)
);
```

```
CREATE TABLE User 6 (
  address
                 VARCHAR(50)
                                         PRIMARY KEY,
                 VARCHAR(50)
  postalCode
  FOREIGN KEY (address) REFERENCES User 5
     ON DELETE CASCADE
     ON UPDATE CASCADE
);
CREATE TABLE ReviewMakesHas (
  date
                 DATE,
  rating
                 INTEGER,
                 VARCHAR(50),
  recipeName
  userId
                 VARCHAR(50),
                 BIT,
  favorite
  PRIMARY KEY (date, rating, recipeName),
  FOREIGN KEY (recipeName) REFERENCES RecipeMatches 1
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  FOREIGN KEY (userId) REFERENCES User 5
    ON DELETE CASCADE
    ON UPDATE CASCADE
);
CREATE TABLE Author (
  userId
                       VARCHAR(50) PRIMARY KEY,
  verificationStatus
                       BIT,
 FOREIGN KEY (userId) REFERENCES User 5
    ON DELETE CASCADE
    ON UPDATE CASCADE
);
CREATE TABLE Student (
  userId
                 VARCHAR(50) PRIMARY KEY,
  major
                 VARCHAR(50),
  FOREIGN KEY (userId) REFERENCES User 5
```

```
ON DELETE CASCADE
    ON UPDATE CASCADE
);
CREATE TABLE Ingredient (
  ingName
                 VARCHAR(50)
                                PRIMARY KEY,
                 VARCHAR(50)
 foodGroup
);
CREATE TABLE Allergy (
  allergyName
                 VARCHAR(50)
                                PRIMARY KEY,
  severity
                 INTEGER
);
CREATE TABLE Publishes (
  userId
                 VARCHAR(50),
                 VARCHAR(50),
  recipeName
  date
                 DATE,
  PRIMARY KEY (userId, recipeName),
  FOREIGN KEY (userId) REFERENCES Author
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  FOREIGN KEY (recipeName) REFERENCES RecipeMatches 1
    ON DELETE CASCADE
    ON UPDATE CASCADE
);
CREATE TABLE Creates (
  userId
                       VARCHAR(50),
  ingName
                       VARCHAR(50),
  allergyName
                       VARCHAR(50),
                       VARCHAR(50),
  mealType
                       VARCHAR(50),
  dietaryGuideline
  PRIMARY KEY (userId, mealType, dietaryGuideline, ingName, allergyName),
  FOREIGN KEY (userId) REFERENCES Student
    ON DELETE CASCADE
    ON UPDATE CASCADE,
```

```
FOREIGN KEY (mealType, dietaryGuideline) REFERENCES RequestSaves
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  FOREIGN KEY (ingName) REFERENCES Ingredient
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  FOREIGN KEY (allergyName) REFERENCES Allergy
    ON DELETE CASCADE
    ON UPDATE CASCADE
);
CREATE TABLE Has (
  userId
                       VARCHAR(50),
  ingName
                       VARCHAR(50),
  PRIMARY KEY (ingName, userId),
  FOREIGN KEY (ingName) REFERENCES Ingredient
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  FOREIGN KEY (userId) REFERENCES Student
    ON DELETE CASCADE
    ON UPDATE CASCADE
);
CREATE TABLE AllergicTo (
  userId
                       VARCHAR(50),
  allergyName
                       VARCHAR(50),
  PRIMARY KEY (allergyName, userId),
  FOREIGN KEY (allergyName) REFERENCES Allergy
    ON DELETE CASCADE
    ON UPDATE CASCADE,
  FOREIGN KEY (userId) REFERENCES Student
    ON DELETE CASCADE
    ON UPDATE CASCADE
);
```

SQL DDL INSERT Statements

1.

```
INSERT INTO RecipeMatches 1 VALUES ('Cheesecake', 1, 'Snack', 'Vegetarian');
INSERT INTO RecipeMatches 2 VALUES ('Snack', 'Snack);
INSERT INTO RecipeIngredient VALUES ('Philadelphia Original Brick Cream Cheese',
'Dairy', 1, '(Vegan) Nut-based Cream Cheese');
INSERT INTO ReviewMakesHas VALUES ('2024/02/29', 8, 'Cheesecake',
'stuas4df656a4f6as4f', 1);
INSERT INTO RequestSaves VALUES ('Snack', 'Vegetarian', '24df23sdaf4565fds3',
'2024/02/29');
INSERT INTO User 2 VALUES ('+1 (123) 456-7890', 'Canada');
INSERT INTO User 4 VALUES ('V8A6E5', 'Powell River');
INSERT INTO User 5 VALUES ('auth15sad1fa415df1', 'john-doe@gmail.com', 'John
Doe', '169 Smoky Hollow Ave', '+1 (123) 456-7890');
INSERT INTO User 6 VALUES ('169 Smoky Hollow Ave', 'V8A6E5');
INSERT INTO User 2 VALUES ('+1 (555) 123-4567', 'USA');
INSERT INTO User 4 VALUES ('12345', 'Springfield');
INSERT INTO User 5 VALUES ('stuas4df656a4f6as4f', 'john@example.com', 'John
Smith');
INSERT INTO User 6 VALUES ('170 Smoky Hollow Ave', '12345');
INSERT INTO Author VALUES (auth15sad1fa415df1', 1);
```

```
INSERT INTO Student VALUES ('stuas4df656a4f6as4f', 'Computer Science');
INSERT INTO Ingredient VALUES ('Lactose-free Milk', 'Dairy');
INSERT INTO Allergy VALUES ('Lactose-Intolerance', 0);
INSERT INTO Publishes VALUES (auth15sad1fa415df1', 'Cheesecake', '2024/02/29');
INSERT INTO Creates VALUES ('stuas4df656a4f6as4f', 'Lactose-free Milk',
'Lactose-Intolerance', 'Snack', 'Vegetarian');
INSERT INTO Has VALUES ('stuas4df656a4f6as4f', 'Lactose-free Milk');
INSERT INTO AllergicTo VALUES ('Lactose-Intolerance', 'stuas4df656a4f6as4f');
2.
INSERT INTO RecipeMatches 1 VALUES ('Pizza', 0, 'Dinner', 'Meat');
INSERT INTO RecipeMatches 2 VALUES ('Dinner', 'Dinner');
INSERT INTO RecipeIngredient VALUES ('Pepperoni', 'Meat', 0, NULL);
INSERT INTO [Contains] VALUES ('Pepperoni', 'Pizza', 'Ounce', 6);
INSERT INTO ReviewMakesHas VALUES ('2024/03/01', 7, 'Pizza',
'stu2666653a45ec23', 0);
INSERT INTO RequestSaves VALUES ('Dinner', 'Meat', '25d563sdaf4565fds3',
'2024/02/29');
INSERT INTO User 2 VALUES ('+1 (123) 845-7890', 'United States');
INSERT INTO User 4 VALUES ('75115', 'Everett');
INSERT INTO User 5 VALUES ('stu2666653a45ec23', 'jane-doe@gmail.com', 'Jane
Doe', '249 W. Hawthorne Court Desoto', '+1 (123) 845-7890');
```

```
INSERT INTO User 6 VALUES ('249 W. Hawthorne Court Desoto', '75115');
INSERT INTO User 2 VALUES ('+1 (123) 845-8890', 'United States');
INSERT INTO User 4 VALUES ('75135', 'Everett');
INSERT INTO User 5 VALUES ('auth2666653a45ec23', 'jane-doe 2@gmail.com', 'Jane
Doe', '249 W. Hawthorne Court Desoto', '+1 (123) 845-8890');
INSERT INTO User 6 VALUES ('249 W. Hawthorne Court Desoto', '75135');
INSERT INTO Author VALUES ('auth2666653a45ec23', 0);
INSERT INTO Student VALUES ('stu2666553a45ec23', 'Statistics');
INSERT INTO Ingredient VALUES ('Cheese', 'Dairy');
INSERT INTO Allergy VALUES ('Lactose-Intolerance', 2);
INSERT INTO Publishes VALUES ('auth2666653a45ec23', 'Pizza', '2024/03/01');
INSERT INTO Creates VALUES ('stu2666553a45ec23', 'Pepperoni',
'Lactose-Intolerance', 'Dinner', 'Meat');
INSERT INTO Has VALUES ('stu2666553a45ec23', 'Cheese');
INSERT INTO AllergicTo VALUES ('Lactose-Intolerance', 'stu2666553a45ec23');
3.
INSERT INTO RecipeMatches 1 VALUES ('Ham Sandwich', 0, 'Lunch', 'Meat');
INSERT INTO RecipeMatches 2 VALUES ('Lunch', 'Lunch');
INSERT INTO RecipeIngredient VALUES ('Ham', 'Meat', 1, 'Veggie ham');
INSERT INTO [Contains] VALUES ('Ham', 'Ham Sandwich', 'Slices', 12);
```

```
INSERT INTO ReviewMakesHas VALUES ('2023/12/15', 6, 'Ham Sandwich',
'stu2666653a45ae23', 0);
INSERT INTO RequestSaves VALUES ('Lunch', 'Meat', '25d589sdaf4565fds3',
'2023/12/15');
INSERT INTO User 2 VALUES ('+1 (123) 845-7660', 'United States');
INSERT INTO User 4 VALUES ('98105', 'Seattle');
INSERT INTO User 5 VALUES ('stu2666653a45ae23', 'alan-wake@gmail.com', 'Alan
Wake', '4264 Union Street', '+1 (123) 845-7660');
INSERT INTO User 6 VALUES ('4264 Union Street', '98105');
INSERT INTO User 2 VALUES ('+1 (123) 844-7660', 'United States');
INSERT INTO User 4 VALUES ('98505', 'Seattle');
INSERT INTO User 5 VALUES ('auth2666653a45ae23', 'alan-wake 2@gmail.com',
'Alan Wake', '4364 Union Street', '+1 (123) 844-7660');
INSERT INTO User 6 VALUES ('4364 Union Street', '98505');
INSERT INTO Author VALUES ('auth2666653a45ae23', 1);
INSERT INTO Student VALUES ('stu2666653a45ae23', 'Creative Writing');
INSERT INTO Ingredient VALUES ('Bread', 'Grains');
INSERT INTO Allergy VALUES ('Eggs', 5);
INSERT INTO Publishes VALUES ('auth2666653a45ae23', 'Ham Sandwich',
'2024/12/15');
INSERT INTO Creates VALUES ('stu2666653a45ae23', 'Ham', 'Eggs', 'Lunch', 'Meat');
```

```
INSERT INTO Has VALUES ('stu2666653a45ae23', 'Bread');
INSERT INTO AllergicTo VALUES ('Eggs', 'stu2666653a45ae23');
4.
INSERT INTO RecipeMatches 1 VALUES ('Taiyaki', 1, 'Snack', 'Vegetarian');
INSERT INTO RecipeMatches 2 VALUES ('Snack', 'Snack');
INSERT INTO RecipeIngredient VALUES ('Red beans', 'Legumes', 1, NULL);
INSERT INTO [Contains] VALUES ('Red bean Paste', 'Taiyaki', 'Grams', 250);
INSERT INTO ReviewMakesHas VALUES ('2023/11/14', 9, 'Taiyaki',
'stu2666653a45ae23', 1);
INSERT INTO RequestSaves VALUES ('Snack', 'Vegetarian', '25d579sdaf4565fds3',
'2023/11/14');
INSERT INTO User 2 VALUES ('+1 (123) 845-7930', 'United States');
INSERT INTO User 4 VALUES ('20019', 'Washington');
INSERT INTO User 5 VALUES ('stu2666863a45ec52', 'leon-s-kennedy@gmail.com',
'Leon Scott Kennedy', '427, Chaplin Street Southeast', '+1 (123) 845-7930');
INSERT INTO User 6 VALUES ('427, Chaplin Street Southeast', '20019');
INSERT INTO User 2 VALUES ('+1 (123) 849-7930', 'United States');
INSERT INTO User 4 VALUES ('20119', 'Washington');
INSERT INTO User 5 VALUES ('auth2666863a45ec52', 'leon-s-kennedy@gmail.com',
'Leon Scott Kennedy', '427, Chaplin Street Southeast', '+1 (123) 849-7930');
INSERT INTO User 6 VALUES ('427, Chaplin Street Southeast', '20119');
```

```
INSERT INTO Author VALUES ('auth2666863a45ec52', 1);
INSERT INTO Student VALUES ('stu2666863a45ec52', 'Criminology');
INSERT INTO Ingredient VALUES ('Sugar', 'Carbohydrate');
INSERT INTO Allergy VALUES ('Shellfish', 8);
INSERT INTO Publishes VALUES ('auth2666863a45ec52', 'Taiyaki', '2024/11/14');
INSERT INTO Creates VALUES ('stu2666863a45ec52', 'Red beans', 'Shellfish', 'Snack',
'Vegetarian');
INSERT INTO Has VALUES ('stu2666863a45ec52', 'Sugar');
INSERT INTO AllergicTo VALUES ('Shellfish', 'stu2666863a45ec52');
5.
INSERT INTO RecipeMatches 1 VALUES ('Gimbap', 1, 'Lunch', 'Vegetarian');
INSERT INTO RecipeMatches 2 VALUES ('Lunch', 'Lunch');
INSERT INTO RecipeIngredient VALUES ('Rice', 'Grains', 0, NULL);
INSERT INTO [Contains] VALUES ('Rice', 'Gimbap', 'Cups', 4);
INSERT INTO ReviewMakesHas VALUES ('2023/10/14', 7, 'Taiyaki',
'stu2666863a45ec52', 1);
INSERT INTO RequestSaves VALUES ('Snack', 'Vegetarian', '32d579sdaf4565fds3',
'2023/10/14');
INSERT INTO User 2 VALUES ('+1 (123) 845-7030', 'Canada');
INSERT INTO User 4 VALUES ('V6B 3K9', 'Vancouver');
```

```
INSERT INTO User 5 VALUES (auth18sad1fa4056d2', 'cloud-strife@gmail.com', 'Cloud
Strife', '2102 Robson St', '+1 (123) 845-7030');
INSERT INTO User 6 VALUES ('2102 Robson St', 'V6B 3K9');
INSERT INTO User 2 VALUES ('+1 (123) 845-7030', 'Canada');
INSERT INTO User 4 VALUES ('V6B 3K9', 'Vancouver');
INSERT INTO User 5 VALUES ('stuas4df677a4f6ba7f', 'cloud-strife2@gmail.com',
'Cloud Strife', '2102 Robson St', '+1 (123) 846-7030');
INSERT INTO User 6 VALUES ('2102 Robson St', 'V6B 3K9');
INSERT INTO Author VALUES ('auth18sad1fa4056d2', 1);
INSERT INTO Student VALUES ('stuas4df677a4f6ba7f', 'Astronomy');
INSERT INTO Ingredient VALUES ('Gim', 'Sea Vegetable');
INSERT INTO Allergy VALUES ('Peanut', 6);
INSERT INTO Publishes VALUES ('auth15s8d9ea4166d2', 'Gimbap', '2024/11/19');
INSERT INTO Creates VALUES ('stuas4df677a4f6b4vf', 'Gimbap', 'Peanut', 'Lunch',
'Vegetarian');
INSERT INTO Has VALUES ('stuas4df677a4f6b4vf', 'Gim');
INSERT INTO AllergicTo VALUES ('Peanut', 'stuas4df677a4f6b4vf');
```