University of British Columbia, Vancouver
Department of Computer Science

CPSC 304 Project Cover Page

Milestone #: ___2___

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Group Number: ____21____

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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 the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

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
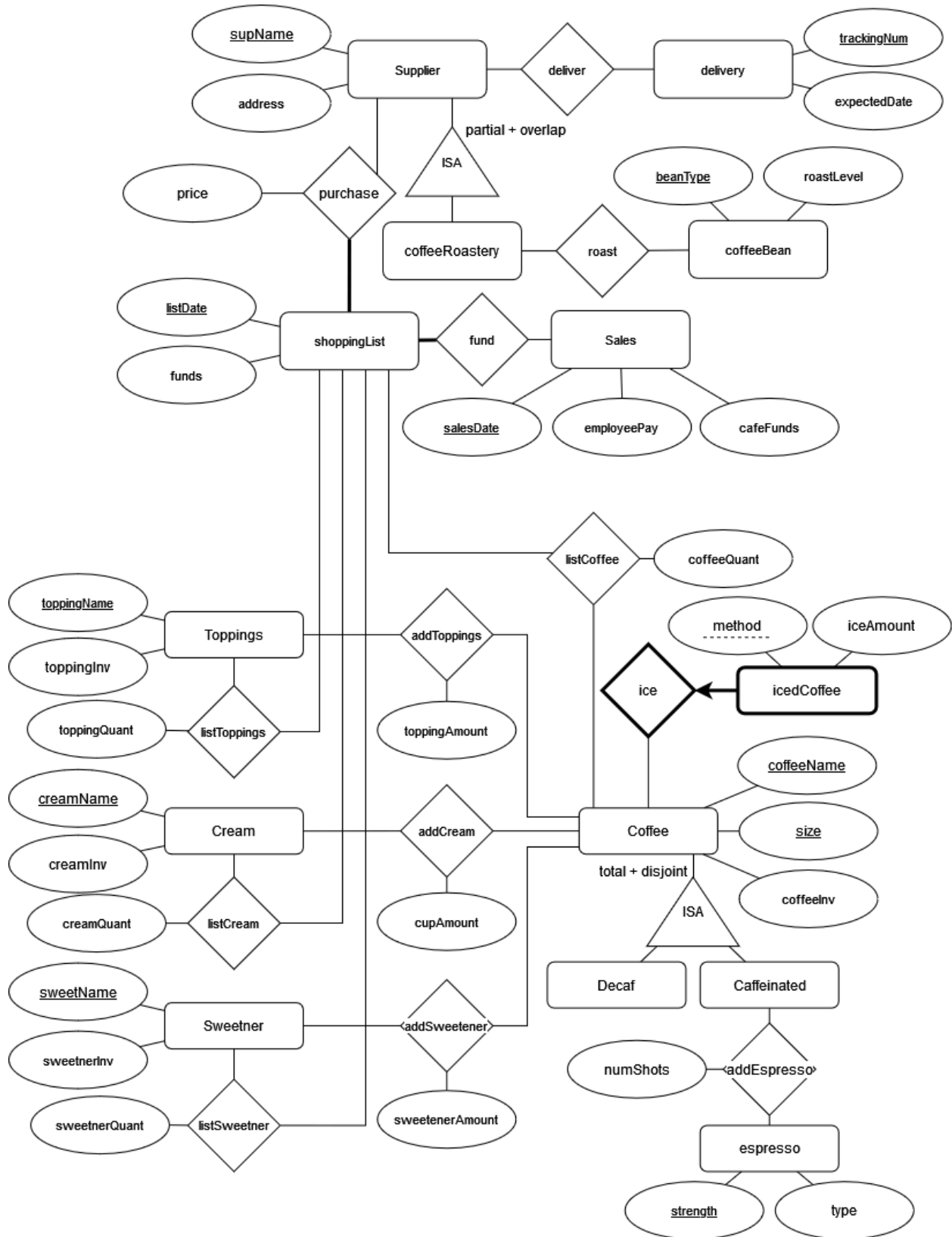
Project Summary
This application is for cafes and coffee shops, focusing specifically on inventory management and recipe directions for drinks. Depending on the user's view, they are able to view the recipes for each drink, add ingredients to a shopping list, and order the items for delivery to the cafe.

ER Diagram
The following changes have been made to the ER Diagram since Milestone 1:
- Separated the 'add' relationship into a binary relationship for each item added to the coffee entity
- Separated the 'addList' relationship into a binary relationship for each item added to the shoppingList entity
- Rearranged ISAs so that the superclass is above the subclasses and the triangle points to the superclass
- Changed the 'purchase' relationship to be many-to-many instead of many-to-one and added a total participation constraint on 'shoppingList'
- Changed the 'add' relationships for each item added to the coffee entity to be many-to-many instead of many-to-one
- Some attribute names have been further specified to reduce confusion

Schema

Delivery(<u>trackingNum</u>: integer, expectedDate: date)

Supplier(<u>supName</u>: char[50], address: char[50])

Deliver(**<u>supName</u>**: char[50], **<u>trackingNum</u>**: integer)

Roast(**<u>supName</u>**: char[50], **<u>beanType</u>**: char[20])

CoffeeBean(<u>beanType</u>**:** char[20], roastLevel: char[20])

Purchase(**<u>supName</u>**: char[50], **<u>listDate</u>**: date, price: integer) (date cannot be null)

ShoppingList(<u>listDate</u>: date, funds: integer)

Fund(**<u>listDate</u>**: date, **<u>salesDate</u>**: date) (listDate cannot be null)

Sales(<u>salesDate</u>: date, employeePay: integer, cafeFunds: integer)

ListToppings(**<u>listDate</u>**: date, **<u>toppingName</u>**: char[30], toppingQuant: char[20])

AddToppings(**<u>toppingName</u>**: char[30], **<u>coffeeName</u>**: char[30], **<u>size</u>**: char[20], toppingAmount: char[20])

Toppings(<u>toppingName</u>: char[30], toppingInv: char[20])

ListCream(**<u>listDate</u>**: date, **<u>creamName</u>**: char[30], creamQuant: char[20])

AddCream(**<u>creamName</u>**: char[30], **<u>coffeeName</u>**: char[30], **<u>size</u>**: char[20], cupAmount: char[20])

Cream(<u>creamName</u>: char[30], creamInv: char[20])

ListSweetener(**<u>listDate</u>**: date, **<u>sweetenerName</u>**: char[30], sweetenerQuant: char[20])

AddSweetener(**<u>sweetenerName</u>**: char[30], **<u>coffeeName</u>**: char[30], **<u>size</u>**: char[20], sweetenerAmount: char[20])

Sweetener(<u>sweetName</u>: char[30], sweetnerInv: char[20])

ListCoffee(**<u>listDate</u>**: date, **<u>coffeeName</u>**: char[30], **<u>size</u>**: char[20], coffeeQuant: char[20])

Decaf(<u>coffeeName</u>**:** char[30], <u>size</u>: char[20], coffeeInv: char[20])

Caffeinated(<u>coffeeName</u>**:** char[30], <u>size</u>: char[20], coffeeInv: char[20])

AddEspresso(**<u>coffeeName</u>**: char[30], **<u>size</u>**: char[20], **<u>strength</u>**: char[20], numShots: integer)

Espresso(<u>strength</u>: char[20], type: char[30])

IcedCoffee(<u>method</u>: char[30], **<u>coffeeName</u>:** char[30], **<u>size</u>**: char[20], iceAmount: char[20])

Functional Dependencies

trackingNum -> expectedDate

supName -> address

trackingNum -> supName

listDate -> funds

listDate, supName -> price

beanType, roastLevel, supName -> price

cafeFunds, price -> funds NOTE: check if correct

salesDate -> listDate

salesDate -> employeePay, cafeFunds

listDate -> toppingName, toppingQuant

coffeeName -> toppingName

size-> toppingAmount

toppingName -> toppingInv

listDate -> creamName, creamQuant

coffeeName -> creamName

size-> creamAmount

creamName -> creamInv

listDate -> sweetnerName, sweetnerQuant

coffeeName -> sweetName

size-> sweetnerAmount

sweetName -> sweetInv

listDate -> coffeeName, coffeeQuant

toppingQuant, creamQuant, sweetnerQuant, coffeeQuant -> price

strength -> type

coffeeName -> coffeeInv

coffeeName-> strength, numShots

coffeeName -> method

size -> iceAmount

toppingInv -> toppingQuant, toppingAmount

creamInv ->creamQuant, creamAmount

sweetnerInv -> sweetnerQuant, sweetnerAmount

coffeeInv -> coffeeQuant, size

Normalization
AddToppings(**toppingName**: char[30], **coffeeName**: char[30], **size**: char[20], toppingAmount: char[20])   is not in BCNF

    AddToppings1(**coffeeName**: char[30], **toppingName**: char[30])   is in BCNF,

    AddToppings2(**coffeeName**: char[30], **size**: char[20], toppingAmount: char[20])   is not in BCNF

    AddToppings3(**size**: char[20], **coffeeName**: char[30])   is in BCNF,
    AddToppings4(**size**: char[20], toppingAmount: char[20])   is in BCNF

Therefore: AddToppings1(**coffeeName**: char[30], **toppingName**: char[30]),

    AddToppings3((**size**: char[20], **coffeeName**: char[30])

    AddToppings4(**size**: char[20], toppingAmount: char[20])

AddCream(**creamName**: char[30], **coffeeName**: char[30], **size**: char[20], cupAmount: char[20]) is not in BCNF

    AddCream1(**coffeeName**: char[30], **creamName**: char[30]) is in BCNF,

    AddCream2(**coffeeName**: char[30], **size**: char[20], cupAmount: char[20])   is not in BCNF

    AddCream3(**size**: char[20], **coffeeName**: char[30])   is in BCNF, AddCream4(**size**: char[20], cupAmount: char[20]) is in BCNF

Therefore: AddCream1(**coffeeName**: char[30], **creamName**: char[30]),

    AddCream3(**size**: char[20], **coffeeName**: char[30])

    AddCream4(**size**: char[20], cupAmount: char[20])

AddSweetener(**sweetenerName**: char[30], **coffeeName**: char[30], **size**: char[20], sweetenerAmount: char[20]) is not in BCNF

  AddSweetener1(**coffeeName**: char[30], **sweetenerName**: char[30])   is in BCNF,

  AddSweetener2(**coffeeName**: char[30], **size**: char[20], sweetenerAmount: char[20]) is not in BCNF

  AddSweetener3(**size**: char[20], **coffeeName**: char[30])   is in BCNF,
  AddSweetener4(**size**: char[20], sweetenerAmount: char[30]) is in BCNF

Therefore: AddSweetener1(**coffeeName**: char[30], **sweetenerName**: char[30]) ,

  AddSweetener3(**size**: char[20], **coffeeName**: char[30])

  AddSweetener4(**size**: char[20], sweetenerAmount: char[30])

ListCoffee(**listDate**: date, **coffeeName**: char[30], **size**: char[20], coffeeQuant: char[20])   is not in BCNF

  ListCoffee1(**listDate**: date, coffeeQuant: char[20]) is in BCNF

  ListCoffee2(**listDate**: date, **coffeeName**: char[30], **size**: char[20]) is in BCNF

therefore   ListCoffee1(**listDate**: date, coffeeQuant: char[20])

  ListCoffee2(**listDate**: date, **coffeeName**: char[30], **size**: char[20])

AddEspresso(**coffeeName**: char[30], **size**: char[20], **strength**: char[20], numShots: integer) is not in BCNF

  AddEspresso1(**coffeeName**: char[30], numShots; integer, **strength**: char[30])   is in BCNF

  AddEspresso2(**coffeeName**: char[30], **size**: char[30])   is in BCNF

therefore: AddEspresso1(**coffeeName**: char[30], numShots; integer, **strength**: char[30])

  AddEspresso2(**coffeeName**: char[30], **size**: char[30])

IcedCoffee(method: char[30], **coffeeName:** char[30], **size**: char[20], iceAmount: char[20]) is not in BCNF

  IcedCoffee1(**coffeeName:** char[30], method**:** char[30])   is in BCNF

  IcedCoffee2(**coffeeName:** char[30], **size:** char[20], iceAmount**:** char[20])   is not in BCNF

  IcedCoffee3(**size:** char[20], iceAmount**:** char[20])   is in BCNF, IcedCoffee4(**size:** char[20], **coffeeName:** char[30])   is in BCNF

therefore: IcedCoffee1(**coffeeName:** char[30], <u>method</u>**:** char[30])

             IcedCoffee3(**size:** char[20], iceAmount**:** char[20])

             IcedCoffee4(**size:** char[20], **coffeeName:** char[30])

SQL DDL Statements

```
CREATE TABLE Delivery (
        trackingNum   INTEGER         PRIMARY KEY,
        expectedDate DATE);

CREATE TABLE Supplier (
        supName       CHAR(50)        PRIMARY KEY,
        address       CHAR(30));

CREATE TABLE Deliver (
        supName       CHAR(50),
        trackingNum   INTEGER,
        PRIMARY KEY (supName, trackingNum),
        FOREIGN KEY (supName)       REFERENCES   Supplier (supName),
        FOREIGN KEY (trackingNum)  REFERENCES   Delivery (trackingNum));

CREATE TABLE Roast (
        supName       CHAR (50),
        beanType      CHAR(20),
        PRIMARY KEY (supName, beanType),
        FOREIGN KEY (supName)       REFERENCES Supplier (supName),
        FOREIGN KEY (beanType)      REFERENCES CoffeeBean (beanType));

CREATE TABLE CoffeeBean (
        beanType      CHAR (20)      PRIMARY KEY,
        roastLevel    CHAR (20));
```

```
CREATE TABLE Purchase (
        supName        CHAR(50),
        listDate       DATE,
        price          INTEGER,
        PRIMARY KEY (supName, listDate),
        FOREIGN KEY (supName)      REFERENCES   Supplier (supName),
        FOREIGN KEY (listDate)     REFERENCES   ShoppingList (listDate));

CREATE TABLE ShoppingList (
        listDate       DATE           PRIMARY KEY,
        funds          INTEGER);

CREATE TABLE Fund (
        listDate       DATE,
        salesDate      DATE,
        PRIMARY KEY (listDate, salesDate),
        FOREIGN KEY (listDate)     REFERENCES   ShoppingList (listDate),
        FOREIGN KEY (salesDate)    REFERENCES   Sales (salesDate));

CREATE TABLE Sales (
        salesDate      DATE           PRIMARY KEY,
        employeePay INTEGER,
        cafeFunds      INTEGER);

CREATE TABLE ListToppings (
        listDate       DATE,
        toppingName  CHAR(30),
        toppingQuant  CHAR(20),
        PRIMARY KEY  (listDate, toppingName)
        FOREIGN KEY  (listDate)        REFERENCES ShoppingList (listDate),
        FOREIGN KEY  (toppingName) REFERENCES Topping (toppingName));

CREATE TABLE AddToppings1 (
        toppingName CHAR(30),
        coffeeName    CHAR(30),
        PRIMARY KEY (toppingName, coffeeName),
        FOREIGN KEY (toppingName) REFERENCES Toppings (toppingName),
        FOREIGN KEY (coffeeName)   REFERENCES Coffee (coffeeName));
```

```sql
CREATE TABLE Toppings3 (
        size            CHAR(20),
        coffeeName    CHAR(30),
        PRIMARY KEY (size, coffeeName),
        FOREIGN KEY (size)           REFERENCES Coffee (size),
        FOREIGN KEY (coffeeName)   REFERENCES Coffee (coffeeName));


CREATE TABLE Toppings4 (
        size                CHAR(20) PRIMARY KEY,
        toppingAmount      CHAR(20),
        FOREIGN KEY (size)     REFERENCES Coffee (size));


CREATE TABLE Toppings (
        toppingName CHAR(30)        PRIMARY KEY,
        toppingINV    CHAR(20));


CREATE TABLE ListCream (
        listDate          DATE,
        creamName    CHAR(30),
        creamQuant    CHAR(20),
        PRIMARY KEY (listDate, creamName),
        FOREIGN KEY (listDate)        REFERENCES  ShoppingList (listdate),
        FOREIGN KEY (creamName)   REFERENCES  Cream (creamName));


CREATE TABLE AddCream1 (
        creamName    CHAR(30).
        coffeeName    CHAR(30),
        PRIMARY KEY (creamName, coffeeName),
        FOREIGN KEY (creamName) REFERENCES Cream (creamName),
        FOREIGN KEY (coffeeName) REFERENCES Coffee (coffeeName));


CREATE TABLE AddCream3 (
        size            CHAR(20),
        coffeeName    CHAR(30),
        PRIMARY KEY  (size, coffeeName),
        FOREIGN KEY  (size)           REFERENCES Coffee (size),
        FOREIGN KEY  (coffeeName) REFERENCES Coffee (coffeeName));
```

```
INSERT TABLE AddCream4 (

        size            CHAR(20)        PRIMARY KEY,
        cupAmount    CHAR(20),
        FOREIGN KEY (size)    REFERENCES Coffee (size));

CREATE TABLE Cream (
        creamName    CHAR(30)        PRIMARY KEY,
        creamInv        CHAR(20));

CREATE TABLE ListSweetener (
        listDate            DATE,
        sweetName        CHAR(30),
        sweetenerQuant CHAR(20),
        PRIMARY KEY      (listDate, sweetName),
        FOREIGN KEY     (listDate)              REFERENCES   ShoppingList (listDate),
        FOREIGN KEY     (sweetName)          REFERENCES   Sweetener (sweetName));

CREATE TABLE AddSweetener1 (
        sweetName     CHAR(30),
        coffeeName    CHAR(30),
        PRIMARY KEY (sweetName, coffeeName),
        FOREIGN KEY (sweetName) REFERENCES Sweetener (sweetName),
        FOREIGN KEY (coffeeName) REFERENCES Coffee (coffeeName));

CREATE TABLE AddSweetener3 (
        size            CHAR(20),
        coffeeName    CHAR(30),
        PRIMARY KEY  (size, coffeeName),
        FOREIGN KEY  (size)              REFERENCES Coffee (size),
        FOREIGN KEY (coffeeName)    REFERENCES Coffee (coffeeName));

CREATE TABLE AddSweetener4 (
        size                    CHAR(20)        PRIMARY KEY,
        sweetenerAmount      CHAR(20),
        FOREIGN KEY (size)    REFERENCES   Coffee (size));

CREATE TABLE Sweetner (
```

```
        sweetName     CHAR(30)         PRIMARY KEY,
        sweetenerInv   CHAR(20));

CREATE TABLE ListCoffee (
        listDate        DATE,
        coffeeName     CHAR(30),
        size            CHAR(20),
        coffeeQuant    CHAR(20),
        PRIMARY KEY (listDate, coffeeName, size),
        FOREIGN KEY (listDate)        REFERENCES   ShoppingList  (listDate),
        FOREIGN KEY (coffeeName) REFERENCES   Coffee         (coffeeName),
        FOREIGN KEY (size)             REFERENCES   Coffee         (size));

CREATE TABLE Decaf (
        coffeeName    CHAR(30),
        size           CHAR(20),
        coffeeInv      CHAR(20),
        PRIMARY KEY (coffeeName, size));

CREATE TABLE Caffeinated (
        coffeeName    CHAR(30),
        size           CHAR(20),
        coffeeInv      CHAR(20),
        PRIMARY KEY (coffeeName, size));

CREATE TABLE AddEspresso1 (
        coffeeName    CHAR(30),
        numShots       INTEGER,
        strength       CHAR(20),
        PRIMARY KEY (coffeeName, strength),
        FOREIGN KEY (coffeeName) REFERENCES Coffee (coffeeName),
        FOREIGN KEY (strength)        REFERENCES Espresso (strength));

CREATE TABLE AddEspresso2 (
        coffeeName    CHAR(30),
        size           CHAR(20),
        PRIMARY KEY (coffeeName, size),
        FOREIGN KEY (coffeeName)   REFERENCES Coffee (coffeeName),
```

```
        FOREIGN KEY (size)            REFERENCES Coffee (size));


CREATE TABLE Espresso (
        strength        CHAR(20)        PRIMARY KEY,
        type            CHAR(30));


CREATE TABLE IcedCoffee1 (
        coffeeName    CHAR(30)        PRIMARY KEY,
        method          CHAR(30),
        FOREIGN KEY (coffeeName) REFERENCES    Coffee (coffeeName));


CREATE TABLE IcedCoffee3 (
        size            CHAR(20) PRIMARY KEY,
        iceAmount      CHAR(20),
        FOREIGN KEY (size)   REFERENCES    Coffee (size));


CREATE TABLE IcedCoffee4 (
        size            CHAR(20),
        iceAmount      CHAR(20),
        PRIMARY KEY (size, coffeeName)
        FOREIGN KEY (size)            REFERENCES    Coffee (size),
        FOREIGN KEY (coffeeName) REFERENCES    Coffee (coffeeName));
```

Insert Statements

```
INSERT INTO Delivery        VALUES (1234, 2024-09-01)
INSERT INTO Delivery        VALUES (1235, 2024-09-10)
INSERT INTO Delivery        VALUES (1236, 2024-09-20)
INSERT INTO Delivery        VALUES (1237, 2024-09-30)
INSERT INTO Delivery        VALUES (1238, 2024-10-15)

INSERT INTO Supplier        VALUES ('COSTCO', '1234 Main St.')
INSERT INTO Supplier        VALUES ('Blenz Beans', '1234 Arbutus St.')
INSERT INTO Supplier        VALUES ('Kona Beans, '1234 Kailua St.')
INSERT INTO Supplier        VALUES ('Superstore', 317 Cambie St.')
INSERT INTO Supplier        VALUES ('The Bean Shop', '9288 Oak St.')

INSERT INTO Deliver         VALUES ('COSTCO', 1234)
```

```
INSERT INTO Deliver          VALUES ('Blenz Beans', 1235)
INSERT INTO Deliver          VALUES ('Kona Beans', 1236)
INSERT INTO Deliver          VALUES ('Superstore', 1237)
INSERT INTO Deliver          VALUES ('The Bean Shop', 1238)

INSERT INTO Roast            VALUES ('COSTCO', 'Arabica')
INSERT INTO Roast            VALUES ('Blenz Beans', 'Robusta')
INSERT INTO Roast            VALUES ('Kona Beans', 'Arabica')
INSERT INTO Roast            VALUES ('Superstore', 'Liberica')
INSERT INTO Roast            VALUES ('The Bean Shop', 'Arabica')

INSERT INTO CoffeeBean       VALUES ('Arabica', 'light')
INSERT INTO CoffeeBean       VALUES ('Liberica', 'light')
INSERT INTO CoffeeBean       VALUES ('Arabica', 'medium')
INSERT INTO CoffeeBean       VALUES ('Robusta', 'dark')
INSERT INTO CoffeeBean       VALUES ('Arabica', 'dark')

INSERT INTO Purchase         VALUES ('COSTCO', 2024-08-01, 150)
INSERT INTO Purchase         VALUES ('Blenz Beans', 2024-08-11, 300)
INSERT INTO Purchase         VALUES ('Kona Beans', 2024-08-15, 275)
INSERT INTO Purchase         VALUES ('Superstore', 2024-08-20, 399)
INSERT INTO Purchase         VALUES ('The Bean Shop', 2024-08-10, 200)

INSERT INTO ShoppingList     VALUES (2024-08-01, 500)
INSERT INTO ShoppingList     VALUES (2024-08-11, 650)
INSERT INTO ShoppingList     VALUES (2024-08-15, 420)
INSERT INTO ShoppingList     VALUES (2024-08-20, 399)
INSERT INTO ShoppingList     VALUES (2024-08-10, 800)

INSERT INTO Fund     VALUES (2024-08-01, 2024-07-30)
INSERT INTO Fund     VALUES (2024-08-11, 2024-08-10)
INSERT INTO Fund     VALUES (2024-08-15, 2024-08-14)
INSERT INTO Fund     VALUES (2024-08-20, 2024-08-19)
INSERT INTO Fund     VALUES (2024-08-10, 2024-08-09)

INSERT INTO Sales    VALUES (2024-07-30, 500, 1200)
INSERT INTO Sales    VALUES (2024-08-10, 590, 1300)
INSERT INTO Sales    VALUES (2024-08-14, 700, 1250)
```

```
INSERT INTO Sales       VALUES (2024-08-19, 600, 1350)
INSERT INTO Sales       VALUES (2024-08-09, 800, 1100)


INSERT INTO ListToppings      VALUES (2024-08-01, 'whipped cream', '4 bottles')
INSERT INTO ListToppings      VALUES (2024-08-11, 'caramel drizzle', '2 bottles')
INSERT INTO ListToppings      VALUES (2024-08-15, 'cinnamon', '1 bottle')
INSERT INTO ListToppings      VALUES (2024-08-20, 'icing sugar', '3 bottles')
INSERT INTO ListToppings      VALUES (2024-08-10, 'cocoa powder', '4 bottles')


INSERT INTO AddToppings1   VALUES ('whipped cream', 'latte')
INSERT INTO AddToppings1   VALUES ('caramel drizzle', 'macchiato')
INSERT INTO AddToppings1   VALUES ('cinnamon', 'cappuccino')
INSERT INTO AddToppings1   VALUES ('icing sugar', 'drip coffee')
INSERT INTO AddToppings1   VALUES ('cocoa powder' 'flat white')


INSERT INTO AddToppings3   VALUES ('extra large', 'latte')
INSERT INTO AddToppings3   VALUES ('medium', 'macchiato')
INSERT INTO AddToppings3   VALUES ('small', 'cappuccino')
INSERT INTO AddToppings3   VALUES ('large', 'drip coffee')
INSERT INTO AddToppings3   VALUES ('short', 'flat white')


INSERT INTO AddToppings4   VALUES ('extra large', '5 tsp')
INSERT INTO AddToppings4   VALUES ('medium', '3 tsp')
INSERT INTO AddToppings4   VALUES ('small', '2 tsp')
INSERT INTO AddToppings4   VALUES ('large', '4 tsp')
INSERT INTO AddToppings4   VALUES ('short', '1 tsp')


INSERT INTO Toppings       VALUES ('whipped cream', 'low')
INSERT INTO Toppings       VALUES ('caramel drizzle', 'low')
INSERT INTO Toppings       VALUES ('cinnamon', 'high')
INSERT INTO Toppings       VALUES ('icing sugar', 'low')
INSERT INTO Toppings        VALUES ('cocoa powder' 'high')


INSERT INTO ListCream      VALUES (2024-08-01, 'half and half', '10 cartons')
INSERT INTO ListCream      VALUES (2024-08-11, 'coconut', '5 cartons')
INSERT INTO ListCream      VALUES (2024-08-15, 'oat', '4 cartons')
INSERT INTO ListCream      VALUES (2024-08-20, 'almond', '3 cartons')
INSERT INTO ListCream       VALUES (2024-08-10, 'soy' '2 cartons')
```

```
INSERT INTO AddCream1        VALUES ('half and half', 'latte')
INSERT INTO AddCream1        VALUES ('coconut', 'macchiato')
INSERT INTO AddCream1        VALUES ('oat', 'cappuccino')
INSERT INTO AddCream1        VALUES ('almond', 'drip coffee')
INSERT INTO AddCream1        VALUES ('soy', 'flat white')

INSERT INTO AddCream3        VALUES ('extra large', 'latte')
INSERT INTO AddCream3        VALUES ('medium', 'macchiato')
INSERT INTO AddCream3        VALUES ('small', 'cappuccino')
INSERT INTO AddCream3        VALUES ('large', 'drip coffee')
INSERT INTO AddCream3        VALUES ('short', 'flat white')

INSERT INTO AddCream4        VALUES ('extra large', '2 cups')
INSERT INTO AddCream4        VALUES ('medium', '1 cup')
INSERT INTO AddCream4        VALUES ('small', '½  cup')
INSERT INTO AddCream4        VALUES ('large', '1.5 cups')
INSERT INTO AddCream4        VALUES ('short', '⅓ cup')

INSERT INTO Cream    VALUES ('half and half', 'low')
INSERT INTO Cream    VALUES ('coconut', 'low')
INSERT INTO Cream    VALUES ('oat', 'low')
INSERT INTO Cream    VALUES ('almond', 'high')
INSERT INTO Cream    VALUES ('soy', 'high')

INSERT INTO ListSweetener    VALUES (2024-08-01, 'honey', '5 bottles')
INSERT INTO ListSweetener    VALUES (2024-08-11, 'cane sugar', '5 bottles')
INSERT INTO ListSweetener    VALUES (2024-08-15, 'stevia', '2 bottles')
INSERT INTO ListSweetener    VALUES (2024-08-20, 'vanilla syrup', '4 bottles')
INSERT INTO ListSweetener    VALUES (2024-08-10, 'chocolate syrup' '1 bottle')

INSERT INTO AddSweetener1        VALUES ('honey', 'latte')
INSERT INTO AddSweetener1        VALUES ('cane sugar', 'macchiato')
INSERT INTO AddSweetener1        VALUES ('stevia', 'cappuccino')
INSERT INTO AddSweetener1        VALUES ('vanilla syrup', 'drip coffee')
INSERT INTO AddSweetener1        VALUES ('chocolate syrup', 'flat white')

INSERT INTO AddSweetener3        VALUES ('extra large', 'latte')
```

```
INSERT INTO AddSweetener3        VALUES ('medium', 'macchiato')
INSERT INTO AddSweetener3        VALUES ('small', 'cappuccino')
INSERT INTO AddSweetener3        VALUES ('large', 'drip coffee')
INSERT INTO AddSweetener3        VALUES ('short', 'flat white')

INSERT INTO AddSweetener4        VALUES ('extra large', 'latte')
INSERT INTO AddSweetener4        VALUES ('medium', 'macchiato')
INSERT INTO AddSweetener4        VALUES ('small', 'cappuccino')
INSERT INTO AddSweetener4        VALUES ('large', 'drip coffee')
INSERT INTO AddSweetener4        VALUES ('short', 'flat white')

INSERT INTO Sweetner        VALUES ('honey', 'high')
INSERT INTO Sweetner        VALUES ('cane sugar', 'low')
INSERT INTO Sweetner        VALUES ('stevia', 'low')
INSERT INTO Sweetner        VALUES ('vanilla syrup', 'high')
INSERT INTO Sweetner        VALUES ('chocolate syrup', 'low')

INSERT INTO ListCoffee        VALUES (2024-08-01, 'latte', '5 bottles')
INSERT INTO ListCoffee        VALUES (2024-08-11, 'macchiato', '5 bottles')
INSERT INTO ListCoffee        VALUES (2024-08-15, 'cappuccino', '2 bottles')
INSERT INTO ListCoffee        VALUES (2024-08-20, 'drip coffee', '4 bottles')
INSERT INTO ListCoffee        VALUES (2024-08-10, 'flat white' '1 bottle')

INSERT INTO Decaf     VALUES ('latte', 'extra large', 'low')
INSERT INTO Decaf     VALUES ('macchiato', 'medium', 'high')
INSERT INTO Decaf     VALUES ('cappuccino', 'small', 'low')
INSERT INTO Decaf     VALUES ('drip coffee', 'large', 'high')
INSERT INTO Decaf     VALUES ('flat white' 'short', 'low')

INSERT INTO Caffeinated        VALUES ('latte', 'extra large', 'low')
INSERT INTO Caffeinated        VALUES ('macchiato', 'medium', 'high')
INSERT INTO Caffeinated        VALUES ('cappuccino', 'small', 'low')
INSERT INTO Caffeinated        VALUES ('drip coffee', 'large', 'high')
INSERT INTO Caffeinated        VALUES ('flat white' 'short', 'low')

INSERT INTO AddEspresso1   VALUES ('latte', 4, 'extra strong')
INSERT INTO AddEspresso1   VALUES ('macchiato', 2, 'medium')
INSERT INTO AddEspresso1    VALUES ('cappuccino', 1, 'weak')
```

```
INSERT INTO AddEspresso1    VALUES ('drip coffee', 2, 'medium')
INSERT INTO AddEspresso1    VALUES ('flat white', 1, 'weak')

INSERT INTO AddEspresso2    VALUES ('latte', 4, 'extra large')
INSERT INTO AddEspresso2    VALUES ('macchiato', 2, 'medium')
INSERT INTO AddEspresso2    VALUES ('cappuccino', 1, 'small')
INSERT INTO AddEspresso2    VALUES ('drip coffee', 2, 'large')
INSERT INTO AddEspresso2    VALUES ('flat white', 1, 'short')

INSERT INTO Espresso        VALUES ('weak', 'single shot')
INSERT INTO Espresso        VALUES ('medium', 'double shot')
INSERT INTO Espresso        VALUES ('strong', 'triple shot')
INSERT INTO Espresso        VALUES ('extra strong', '4 shots')
INSERT INTO Espresso        VALUES ('super strong', '5 shots')

INSERT INTO IcedCoffee1     VALUES ('latte', 'espresso machine')
INSERT INTO IcedCoffee1     VALUES ('macchiato', 'espresso machine')
INSERT INTO IcedCoffee1     VALUES ('cappuccino', 'espresso machine')
INSERT INTO IcedCoffee1     VALUES ('drip coffee', 'french press')
INSERT INTO IcedCoffee1     VALUES ('flat white' ,'espresso machine')

INSERT INTO IcedCoffee3     VALUES ('extra large', '1 scoop')
INSERT INTO IcedCoffee3     VALUES ('medium', '2 scoops')
INSERT INTO IcedCoffee3     VALUES ('small', 'half scoop')
INSERT INTO IcedCoffee3     VALUES ('large', '2 scoops')
INSERT INTO IcedCoffee3     VALUES ('short', 'half scoop')

INSERT INTO IcedCoffee4     VALUES ('extra large', 'latte')
INSERT INTO IcedCoffee4     VALUES ('medium', 'macchiato')
INSERT INTO IcedCoffee4     VALUES ('small', 'cappuccino')
INSERT INTO IcedCoffee4     VALUES ('large', 'drip coffee')
INSERT INTO IcedCoffee4     VALUES ('short', 'flat white')
```