User

| Email | Password | Business Name |
| --- | --- | --- |

Purchase

| Email | Location | DateTime | Cost |
| --- | --- | --- | --- |

Ingredient

| Email | Name | Amount | Amount Units |
| --- | --- | --- | --- |

Includes

| Email | Location | DateTime | Amount | Amount Units | IngredientName | Price |
| --- | --- | --- | --- | --- | --- | --- |

menuItem

| Email | Name | Cost |
| --- | --- | --- |

Uses

| Email | IngredientName | MenuName | Amount | Amount Units |
| --- | --- | --- | --- | --- |

Sale

| Email | Start Date | End Date | Revenue |
| --- | --- | --- | --- |

Sold

| Email | Start Date | End Date | MenuName | Count |
| --- | --- | --- | --- | --- |

CREATE TABLE USER

(Email VARCHAR(50) NOT NULL,

Password VARCHAR(100) NOT NULL,

BusinessName VARCHAR(50),

CONSTRAINT USERPK

PRIMARY KEY (Email)

);

CREATE TABLE PURCHASE

(Email VARCHAR(50) NOT NULL,

DateTime DATETIME NOT NULL,

Location VARCHAR(50) NOT NULL,

Cost DECIMAL(8,2) NOT NULL,

CONSTRAINT PURCHASEPK

PRIMARY KEY (Email, DateTime, Location),

CONSTRAINT PURCHASEFK

FOREIGN KEY (Email) REFERENCES USER(Email)

ON UPDATE CASCADE

ON DELETE CASCADE

);

CREATE TABLE INGREDIENT

(Email VARCHAR(50) NOT NULL,

Name VARCHAR(50) NOT NULL,

Amount DECIMAL(8,2) NOT NULL,

AmountUnits VARCHAR(10) NOT NULL,

CONSTRAINT INGREDIENTPK

PRIMARY KEY (Email, Name),

CONSTRAINT INGREDIENTFK

FOREIGN KEY (Email) REFERENCES USER(Email)

ON UPDATE CASCADE

ON DELETE CASCADE

);

CREATE TABLE INCLUDES

(Email VARCHAR(50) NOT NULL,

DateTime DATETIME NOT NULL,

Location VARCHAR(50) NOT NULL,

IngredientName VARCHAR(50) NOT NULL,

Price DECIMAL(8,2) NOT NULL,

Amount DECIMAL(8,2) NOT NULL,

AmountUnits VARCHAR(10) NOT NULL,

CONSTRAINT INCLUDESPK

PRIMARY KEY (Email, DateTime, Location, IngredientName),

CONSTRAINT INCLUDESFKA

FOREIGN KEY (Email, IngredientName) REFERENCES INGREDIENT(Email, Name)

ON UPDATE CASCADE

ON DELETE CASCADE,

CONSTRAINT INCLUDESFKB

FOREIGN KEY (DateTime, Location) REFERENCES PURCHASE(DateTime, Location)

ON UPDATE CASCADE

ON DELETE CASCADE

);

CREATE TABLE MENUITEM

(Email VARCHAR(50) NOT NULL,

Name VARCHAR(50) NOT NULL,

Cost DECIMAL(8,2) NOT NULL,

CONSTRAINT MENUITEMPK

PRIMARY KEY (Email, Name),

CONSTRAINT MENUITEMFK

FOREIGN KEY (Email) REFERENCES USER(Email)

ON UPDATE CASCADE

ON DELETE CASCADE

);

CREATE TABLE USES

(Email VARCHAR(50) NOT NULL,

DateTime DATETIME NOT NULL,

MenuName VARCHAR(50) NOT NULL,

IngredientName VARCHAR(50) NOT NULL,

Amount DECIMAL(8,2) NOT NULL,

AmountUnits VARCHAR(10) NOT NULL,

CONSTRAINT USESPK

PRIMARY KEY (Email, MenuName, IngredientName),

CONSTRAINT USESFKA

FOREIGN KEY (Email, IngredientName) REFERENCES INGREDIENT(Email, Name)

ON UPDATE CASCADE

ON DELETE CASCADE,

CONSTRAINT USESFKB

FOREIGN KEY (MenuName) REFERENCES MENUITEM(Name)

ON UPDATE CASCADE

ON DELETE CASCADE

);

CREATE TABLE SALE

(Email VARCHAR(50) NOT NULL,

StartDate DATE NOT NULL,

EndDate DATE NOT NULL,

Revenue DECIMAL(8,2) NOT NULL,

CONSTRAINT SALEPK

PRIMARY KEY (Email, StartDate, EndDate),

CONSTRAINT SALEFK

FOREIGN KEY (Email) REFERENCES USER(Email)

ON UPDATE CASCADE

ON DELETE CASCADE

);

CREATE TABLE SOLD

(Email VARCHAR(50) NOT NULL,

StartDate DATE NOT NULL,

EndDate DATE NOT NULL,

Count INT NOT NULL,

MenuName VARCHAR(50) NOT NULL,

CONSTRAINT SOLDPK

PRIMARY KEY (Email, StartDate, EndDate, MenuName),

CONSTRAINT SOLDFKA

FOREIGN KEY (Email) REFERENCES USER(Email)

ON UPDATE CASCADE

ON DELETE CASCADE,

CONSTRAINT SOLDFKB

FOREIGN KEY (StartDate, EndDate) REFERENCES SALE(StartDate, EndDate)

ON UPDATE CASCADE

ON DELETE CASCADE,

CONSTRAINT SOLDFKC

FOREIGN KEY (MenuName) REFERENCES MENUITEM(Name)

);