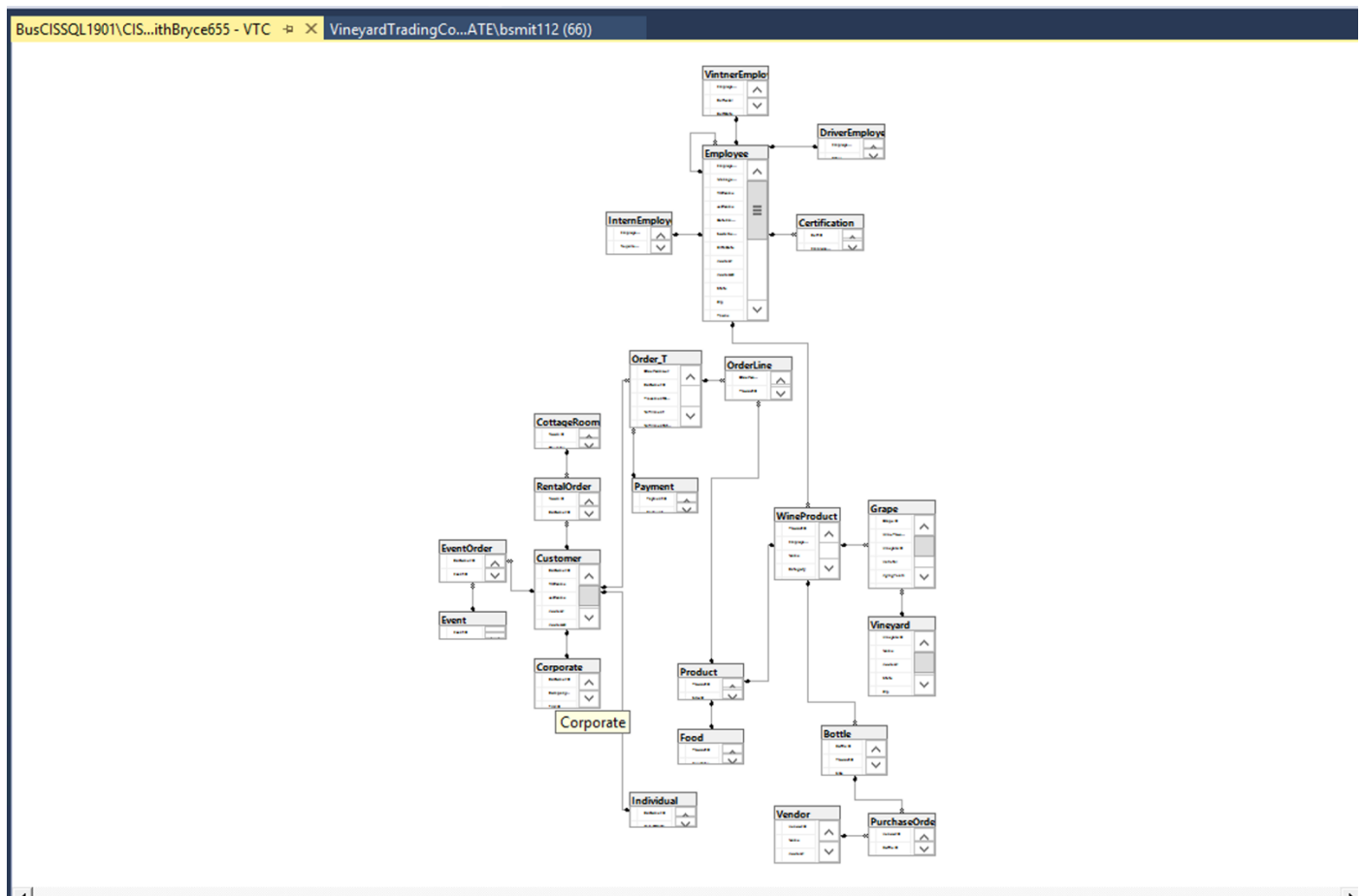


Part 3B Overview

- All tables created and relationships programmed. Adequate test data in 15 tables.
 - Test data tables: Payment, Order, OrderLine, Customer, Food, Product, WineProduct, Bottle, Purchase, Vendor, Certification, DriverEmployee, VintnerEmployee, InternEmployee, Employee
- Database Name: **SmithBryce655**
- Developed by: Bryce Smith

VTC Final Diagram



Testing referential integrity:

```
SELECT *
FROM Customer;
SELECT *
FROM Order_T;
SELECT *
FROM OrderLine;
SELECT *
FROM Payment;
```

Results		Messages							
	CustomerID	FirstName	LastName	Address1	Address2	State	Zip	Phone	CustomerType
1	10001	Jo	Smo	1234 Willow Way	null	CO	12345	595-345-0987	I
2	10002	Jeff	Smithers	1234 Jillian Way	B	CA	92592	123-456-3234	I

	OrderNumber	CustomerID	PlacementDate	Fulfillment	FulfillmentStatus	PaymentID
1	12301	10001	2021-12-01	2021-12-01	F	2
2	12302	10002	2022-01-10	2022-01-10	F	3

	OrderNumber	ProductID	Quantity	SalePrice
1	12301	235	4	3.83
2	12301	696575	1	31.73
3	12302	234	5	5.00
4	12302	614684	1	36.75
5	12302	805965	1	40.00
6	12302	867334	1	36.75

DELETE FROM Customer WHERE FirstName = 'Jo'

Results		Messages							
	CustomerID	FirstName	LastName	Address1	Address2	State	Zip	Phone	CustomerType
1	10002	Jeff	Smithers	1234 Jillian Way	B	CA	92592	123-456-3234	I

	OrderNumber	CustomerID	PlacementDate	Fulfillment	FulfillmentStatus	PaymentID
1	12302	10002	2022-01-10	2022-01-10	F	3

	OrderNumber	ProductID	Quantity	SalePrice
1	12302	234	5	5.00
2	12302	614684	1	36.75
3	12302	805965	1	40.00
4	12302	867334	1	36.75

10 VTC Queries

--How many people are employed by Primary Position?

```
SELECT PrimaryPosition, count(*) AS EmployeeCount
FROM SmithBryce655.dbo.Employee
GROUP BY PrimaryPosition
ORDER BY EmployeeCount DESC
```

	PrimaryPosition	EmployeeCount
1	Viticulturalist	10
2	Clerk	3
3	House Keeper	3
4	Distribution	2
5	Driver	2
6	Event Management	2
7	Viticulture Intern	2
8	Warehouse	2
9	Winemaker	2
10	Winemaking Intern	1

--List the Vineyard Trading Companies employees with their managers name

```
SELECT E1.EmployeeId, E1.ManagerID, E1.FirstName, E1.PrimaryPosition AS EmployeePosition,
E2.FirstName, E2.PrimaryPosition AS ManagerPosition
FROM SmithBryce655.dbo.Employee AS E1
LEFT JOIN SmithBryce655.dbo.Employee AS E2
ON E1.ManagerID = E2.EmployeeID
```

	EmployeeId	ManagerID	FirstName	EmployeePosition	FirstName	ManagerPosition
1	146503	146527	Paxton	Winemaker	Brady	Winemaker
2	146527	NULL	Brady	Winemaker	NULL	NULL
3	146530	146563	Kyson	Event Management	Jaxson	Event Management
4	146563	NULL	Jaxson	Event Management	NULL	NULL
5	146652	146760	Jesse	House Keeper	Seamus	House Keeper
6	146686	146760	Tamia	House Keeper	Seamus	House Keeper
7	146760	NULL	Seamus	House Keeper	NULL	NULL
8	146802	146900	Abram	Distribution	Tyrell	Distribution
9	146900	NULL	Tyrell	Distribution	NULL	NULL
10	146946	147036	Carl	Warehouse	Jessica	Warehouse
11	147036	NULL	Jessica	Warehouse	NULL	NULL
12	147042	147049	Justice	Driver	Serenity	Driver
13	147049	NULL	Serenity	Driver	NULL	NULL
14	147113	147220	Maria	Clerk	Mckenna	Clerk
15	147153	147220	Brianna	Clerk	Mckenna	Clerk
16	147220	NULL	Mckenna	Clerk	NULL	NULL
17	147279	147392	Madilyn	Viticulturalist	Magdalena	Viticulturalist
18	147301	147392	Jaime	Viticulturalist	Magdalena	Viticulturalist
19	147309	147392	Morgan	Viticulturalist	Magdalena	Viticulturalist
20	147392	NULL	Magdalena	Viticulturalist	NULL	NULL
21	147432	147621	Draven	Viticulturalist	Jewel	Viticulturalist
22	147447	147621	Sabrina	Viticulturalist	Jewel	Viticulturalist
23	147467	147621	Madison	Viticulturalist	Jewel	Viticulturalist
24	147474	147621	Noe	Viticulturalist	Jewel	Viticulturalist
25	147529	147621	Alexandra	Viticulturalist	Jewel	Viticulturalist
26	147621	NULL	Jewel	Viticulturalist	NULL	NULL
27	147650	146527	Alayna	Winemaking Intern	Brady	Winemaker
28	147658	147621	Lillian	Viticulture Intern	Jewel	Viticulturalist
29	147700	147621	Kaylin	Viticulture Intern	Jewel	Viticulturalist

--Who has worked at the vineyard the longest?

```
SELECT FirstName, LastName, PrimaryPosition, DATEDIFF(month, DateEmployed, getdate()) AS  
MonthsEmployed  
FROM SmithBryce655.dbo.Employee  
ORDER BY MonthsEmployed DESC;
```

Results		Messages		
	FirstName	LastName	PrimaryPosition	MonthsEmployed
1	Paxton	Parker	Winemaker	71
2	Jaxson	Blackburn	Event Management	65
3	Jesse	Franklin	House Keeper	63
4	Tamia	Todd	House Keeper	62
5	Brady	Ray	Winemaker	62
6	Magdalena	Huang	Viticulturalist	62
7	Seamus	Chapman	House Keeper	60
8	Abram	Green	Distribution	59
9	Tyrell	Neal	Distribution	58
10	Carl	Banks	Warehouse	57
11	Jessica	Duncan	Warehouse	55
12	Justice	Arias	Driver	55
13	Serenity	Anderson	Driver	55
14	Jewel	Crosby	Viticulturalist	55
15	Maria	Gordon	Clerk	54
16	Brianna	Bautista	Clerk	53
17	Mckenna	Marks	Clerk	44
18	Madilyn	Bradley	Viticulturalist	43
19	Kyson	Mccarthy	Event Management	43
20	Jaime	Lester	Viticulturalist	41
21	Morgan	Hill	Viticulturalist	38
22	Draven	Gill	Viticulturalist	38
23	Sabrina	Melendez	Viticulturalist	35
24	Madison	Mason	Viticulturalist	34
25	Noe	Sullivan	Viticulturalist	33
26	Alexandra	Welch	Viticulturalist	28
27	Alayna	Santiago	Winemaking Intern	0
28	Lillian	Colon	Viticulture Intern	0
29	Kaylin	Lowery	Viticulture Intern	0

--Percentage increase of pay by employee

```
SELECT FirstName, LastName, PrimaryPosition, InitialPay, CurrentPay,  
CAST(Round(((CurrentPay - InitialPay)/InitialPay)*100,2) AS Numeric(4,2)) AS  
PercentIncrease  
FROM SmithBryce655.dbo.Employee  
ORDER BY PercentIncrease DESC;
```

	FirstName	LastName	PrimaryPosition	InitialPay	CurrentPay	PercentIncrease
1	Paxton	Parker	Winemaker	33.00	45.00	36.36
2	Brianna	Bautista	Clerk	21.00	28.00	33.33
3	Jaime	Lester	Viticulturalist	29.00	36.00	24.14
4	Lillian	Colon	Viticulture Intern	29.00	36.00	24.14
5	Seamus	Chapman	House Keeper	21.00	26.00	23.81
6	Morgan	Hill	Viticulturalist	30.00	37.00	23.33
7	Noe	Sullivan	Viticulturalist	30.00	37.00	23.33
8	Alayna	Santiago	Winemaking Intern	36.00	44.00	22.22
9	Mckenna	Marks	Clerk	47.00	57.00	21.28
10	Kaylin	Lowery	Viticulture Intern	31.00	37.00	19.35
11	Sabrina	Melendez	Viticulturalist	38.00	45.00	18.42
12	Madison	Mason	Viticulturalist	28.00	33.00	17.86
13	Kyson	Mccarthy	Event Managem...	31.00	36.00	16.13
14	Madilyn	Bradley	Viticulturalist	48.00	55.00	14.58
15	Jesse	Franklin	House Keeper	52.00	58.00	11.54
16	Abram	Green	Distribution	40.00	44.00	10.00
17	Jaxson	Blackburn	Event Managem...	53.00	58.00	9.43
18	Serenity	Anderson	Driver	54.00	59.00	9.26
19	Alexandra	Welch	Viticulturalist	44.00	48.00	9.09
20	Tamia	Todd	House Keeper	26.00	28.00	7.69
21	Tyrell	Neal	Distribution	53.00	57.00	7.55
22	Brady	Ray	Winemaker	28.00	30.00	7.14
23	Jessica	Duncan	Warehouse	30.00	32.00	6.67
24	Carl	Banks	Warehouse	50.00	53.00	6.00
25	Magdal...	Huang	Viticulturalist	42.00	44.00	4.76
26	Draven	Gill	Viticulturalist	24.00	25.00	4.17
27	Jewel	Crosby	Viticulturalist	25.00	26.00	4.00
28	Justice	Arias	Driver	51.00	52.00	1.96
29	Maria	Gordon	Clerk	51.00	52.00	1.96

--Customers with the name of the items they bought

```

SELECT C.FirstName, C.LastName, F.FoodType, WP.Name, OL.Quantity
FROM Customer AS C
LEFT JOIN Order_T AS O
ON O.CustomerID = C.CustomerID
LEFT JOIN OrderLine as OL
ON OL.OrderNumber = O.OrderNumber
LEFT JOIN Food AS F
ON F.ProductID = OL.ProductID
LEFT JOIN WineProduct as WP
ON WP.ProductID = OL.ProductID

```

	FirstName	LastName	FoodType	Name	Quantity
1	Jo	Smo	Pita Chips	NULL	4
2	Jo	Smo	NULL	VTC Cab	1
3	Jeff	Smithers	Chocolate Raisens	NULL	5
4	Jeff	Smithers	NULL	VTC Sangiovese	1
5	Jeff	Smithers	NULL	VTC Merlot	1
6	Jeff	Smithers	NULL	VTC Sangiovese	1

--Order Totals

```
SELECT DISTINCT OrderNumber, SUM(Quantity * SalePrice) AS OrderTotal
FROM SmithBryce655.dbo.OrderLine
GROUP BY OrderNumber
```

	OrderNumber	OrderTotal
1	12301	47.05
2	12302	138.50

--Order by PaymentType

```
SELECT C.FirstName, O.OrderNumber, P.PaymentType
FROM Customer C
JOIN Order_T O
ON C.CustomerID = O.CustomerID
JOIN Payment P
ON P.PaymentID = O.PaymentID
```

	FirstName	OrderNumber	PaymentType
1	Jo	12301	Cash
2	Jeff	12302	DebitCard

--Intern Names and Requirements

```
SELECT E.FirstName, E.LastName, I.Requirement
FROM Employee E
JOIN InternEmployee I
ON E.EmployeeID = I.EmployeeID
```

	FirstName	LastName	Requirement
1	Alayna	Santiago	Develop winemaking process outline
2	Lillian	Colon	Manage 2022 Harvest
3	Kaylin	Lowery	Manage 2022 Harvest

--Vintners by Certification Level

```
SELECT E.FirstName, E.LastName, V.CertLevel
FROM Employee E
JOIN VintnerEmployee V
ON E.EmployeeID = V.EmployeeID
```

Results				Messages			
	FirstName	LastName	CertLevel				
1	Madilyn	Bradley	Advanced				
2	Jaime	Lester	Proficient				
3	Morgan	Hill	Beginner				
4	Magdalena	Huang	Proficient				
5	Draven	Gill	Beginner				
6	Sabrina	Melendez	Advanced				
7	Madison	Mason	Advanced				
8	Noe	Sullivan	Beginner				
9	Alexandra	Welch	Advanced				
10	Jewel	Crosby	Advanced				

--Months until drivers CDL expiration date

```
SELECT E.FirstName, E.LastName, DATEDIFF(month, getdate(), D.CDL_ExpDate) AS Months
FROM Employee E
JOIN DriverEmployee D
ON E.EmployeeID = D.EmployeeID;
```

Results				Messages			
	FirstName	LastName	Months				
1	Justice	Arias	12				
2	Serenity	Anderson	13				

```
--ALTER TABLE Blend
--DROP CONSTRAINT FK_Blend_Grape;

--ALTER TABLE Bottle
--DROP CONSTRAINT Bottle_FK;

--ALTER TABLE Certification
--DROP CONSTRAINT Cert_FK;

--ALTER TABLE Corporate
--DROP CONSTRAINT Corp_FK;

--ALTER TABLE DriverEmployee
--DROP CONSTRAINT DEmp_FK;

--ALTER TABLE Employee
--DROP CONSTRAINT Manager_FK;

--ALTER TABLE EventOrder
--DROP CONSTRAINT EventOrder_FK1;

--ALTER TABLE EventOrder
--DROP CONSTRAINT EventOrder_FK2;

--ALTER TABLE Food
--DROP CONSTRAINT Food_FK;

--ALTER TABLE Grape
--DROP CONSTRAINT Grape_FK;

--ALTER TABLE Harvest
--DROP CONSTRAINT Harvest_FK;

--ALTER TABLE Individual
--DROP CONSTRAINT Indiv_FK;

--ALTER TABLE InternEmployee
--DROP CONSTRAINT IEmp_FK;

--ALTER TABLE Order_T
--DROP CONSTRAINT Order_FK;

--ALTER TABLE OrderLine
--DROP CONSTRAINT OrderLine_FK1;

--ALTER TABLE OrderLine
--DROP CONSTRAINT OrderLine_FK2;

--ALTER TABLE Payment
--DROP CONSTRAINT Payment_FK;

--ALTER TABLE PurchaseOrder
```



```
--DROP CONSTRAINT PO_FK1;

--ALTER TABLE PurchaseOrder
--DROP CONSTRAINT PO_FK2;

--ALTER TABLE RentalOrder
--DROP CONSTRAINT RentalOrder_FK1;

--ALTER TABLE RentalOrder
--DROP CONSTRAINT RentalOrder_FK2;

--ALTER TABLE VintnerEmployee
--DROP CONSTRAINT VEmp_FK;

--ALTER TABLE WineProduct
--DROP CONSTRAINT Wine_FK1;

--ALTER TABLE WineProduct
--DROP CONSTRAINT Wine_FK2;

--ALTER TABLE WineProduct
--DROP CONSTRAINT Wine_FK3;

--Drop Table Blend;

--DROP TABLE Bottle;

--DROP TABLE Certification;

--DROP TABLE Corporate;

--DROP TABLE CottageRoom;

--DROP TABLE Customer;

--DROP TABLE DriverEmployee;

--DROP TABLE Employee;

--DROP TABLE Event;

--DROP TABLE EventOrder;

--DROP TABLE Food;

--DROP TABLE Grape;

--DROP TABLE Harvest;

--DROP TABLE Individual;

--DROP TABLE InternEmployee;
```

```
--DROP TABLE Order_T;  
  
--DROP TABLE OrderLine;  
  
--DROP TABLE Payment;  
  
--DROP TABLE Product;  
  
--DROP TABLE PurchaseOrder;  
  
--DROP TABLE RentalOrder;  
  
--DROP TABLE Vendor;  
  
--DROP TABLE Vineyard;  
  
--DROP TABLE VintnerEmployee;  
  
--DROP TABLE WineProduct;
```

```
CREATE TABLE Employee (  
    EmployeeID Int NOT NULL,  
    ManagerID Int NULL,  
    FirstName varchar(20) NOT NULL,  
    LastName varchar(20) NOT NULL,  
    DateEmployed date NULL,  
    SocialSecurityNumber varchar(11) NOT NULL,  
    BirthDate date NOT NULL,  
    Address1 varchar(40) NOT NULL,  
    Addresss2 varchar(10) NULL,  
    State Char(2) NOT NULL,  
    Zip varchar(10) NOT NULL,  
    Phone varchar(12) NOT NULL,  
    Email varchar(40) NOT NULL,  
    EMC_FirstName varchar(20) NOT NULL,  
    EMC_LastName varchar(20) NOT NULL,  
    EMC_Phone varchar(12) NOT NULL,  
    InitialPay decimal(5,2) NOT NULL,  
    CurrentPay decimal(5,2) NULL,  
    TipsCert bit NOT NULL,  
    TipsCertDate date NOT NULL,  
    PrimaryPosition varchar(40) NOT NULL,  
    SecondaryPosition varchar(40) NULL,  
    CONSTRAINT Employee_PK PRIMARY KEY (EmployeeID),  
    CONSTRAINT Manager_FK FOREIGN KEY (ManagerID) REFERENCES Employee(EmployeeID));
```

```
CREATE TABLE VintnerEmployee (  
    EmployeeID Int NOT NULL,  
    CertLevel varchar(30) NOT NULL,  
    CertDate date NOT NULL,
```

```
ReCertDate date NULL,
ReCertResult text NULL,
CONSTRAINT VEmp_PK PRIMARY KEY (EmployeeID),
CONSTRAINT VEmp_FK FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID));

CREATE TABLE DriverEmployee (
    EmployeeID int NOT NULL,
    CDLid int NOT NULL,
    CDL_ExpDate date NOT NULL,
    CONSTRAINT DEmp_PK PRIMARY KEY (EmployeeID),
    CONSTRAINT DEmp_FK FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID));

CREATE TABLE InternEmployee (
    EmployeeID int NOT NULL,
    Requirement text NOT NULL,
    StartDate date NOT NULL,
    GraduationDate date NOT NULL,
    CONSTRAINT IEmp_PK PRIMARY KEY (EmployeeID),
    CONSTRAINT IEmp_FK FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID));

CREATE TABLE Certification (
    CertID int NOT NULL,
    EmployeeID int NULL,
    CertName varchar(50) NOT NULL,
    CONSTRAINT Cert_PK PRIMARY KEY (CertID),
    CONSTRAINT Cert_FK FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID));

CREATE TABLE Vendor (
    VendorID varchar(20) NOT NULL,
    Name varchar(40) NOT NULL,
    Address1 varchar(40) NOT NULL,
    Addresss2 varchar(10) NULL,
    ContactName varchar(20) NULL,
    ContactPhone varchar(12) NULL,
    CONSTRAINT Vendor_PK PRIMARY KEY (VendorID));

CREATE TABLE PurchaseOrder (
    VendorID varchar(20) NOT NULL,
    BottleID int NULL,
    Quantity NUMERIC(10,0) NOT NULL,
    Price decimal(3,2) NOT NULL,
    CONSTRAINT PO_PK PRIMARY KEY (VendorID, BottleID),
    CONSTRAINT PO_FK1 FOREIGN KEY (VendorID) REFERENCES Vendor(VendorID),
    CONSTRAINT PO_FK2 FOREIGN KEY (BottleID) REFERENCES Bottle(BottleID));

CREATE TABLE Bottle (
    BottleID int NOT NULL,
    ProductID varchar(20) NOT NULL,
    Size NUMERIC(5,2) NOT NULL,
    GlassType varchar(20) NOT NULL,
    OnHandQuantity NUMERIC(10,0) NOT NULL,
    CONSTRAINT Bottle_PK PRIMARY KEY (BottleID),
```

```
CONSTRAINT Bottle_FK FOREIGN KEY (ProductID) REFERENCES WineProduct(ProductID));
```

```
CREATE TABLE WineProduct (  
    ProductID varchar(20) NOT NULL,  
    EmployeeID int NOT NULL,  
    Name varchar(40) NOT NULL,  
    Category varchar(20) NOT NULL,  
    Varietal varchar(20) NOT NULL,  
    Vintage varchar(20) NOT NULL,  
    PercentAlch decimal(5,2) NOT NULL,  
    Price decimal(5,2) NOT NULL,  
    CONSTRAINT Wine_PK PRIMARY KEY (ProductID),  
    CONSTRAINT Wine_FK1 FOREIGN KEY (ProductID) REFERENCES Product(ProductID),  
    CONSTRAINT Wine_FK3 FOREIGN KEY (EmployeeID) REFERENCES Employee(EmployeeID));
```

```
CREATE TABLE Food (  
    ProductID varchar(20) NOT NULL,  
    FoodType varchar(40) NOT NULL,  
    Price decimal(3,2),  
    CONSTRAINT Food_PK PRIMARY KEY (ProductID),  
    CONSTRAINT Food_FK FOREIGN KEY (ProductID) REFERENCES Product(ProductID));
```

```
CREATE TABLE Product (  
    ProductID varchar(20) NOT NULL,  
    SKUID int NULL,  
    ProductType Char Not Null,  
    CONSTRAINT Product_PK PRIMARY KEY (ProductID));
```

```
CREATE TABLE OrderLine (  
    OrderNumber int NOT NULL,  
    ProductID varchar(20) NOT NULL,  
    Quantity NUMERIC(5,0) NOT NULL,  
    SalePrice decimal(5,2) NOT NULL,  
    CONSTRAINT OrderLine_PK PRIMARY KEY (OrderNumber, ProductID),  
    CONSTRAINT OrderLine_FK1 FOREIGN KEY (OrderNumber) REFERENCES Order_T(OrderNumber),  
    CONSTRAINT OrderLine_FK2 FOREIGN KEY (ProductID) REFERENCES Product(ProductID));
```

```
CREATE TABLE Order_T (  
    OrderNumber int NOT NULL,  
    CustomerID int NOT NULL,  
    PlacementDate date NOT NULL,  
    Fulfillment date NOT NULL,  
    FulfillmentStatus nvarchar NOT NULL,  
    CONSTRAINT Order_PK PRIMARY KEY (OrderNumber),  
    CONSTRAINT Order_FK FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID));
```

```
--ALTER TABLE Order_T  
--ADD CONSTRAINT Order_FK2 FOREIGN KEY (PaymentID) REFERENCES Payment(PaymentID);
```

```
--ALTER TABLE Order_T  
--ADD PaymentID int
```

```
--UPDATE Order_T
--SET PaymentID = 2
--WHERE OrderNumber = 12301;
--UPDATE Order_T
--SET PaymentID = 3
--WHERE OrderNumber = 12302;

CREATE TABLE Payment (
    PaymentID int NOT NULL,
    PaymentType varchar(20) NOT NULL,
    CONSTRAINT Payment_PK PRIMARY KEY (PaymentID));

CREATE TABLE Customer (
    CustomerID int NOT NULL,
    FirstName varchar(20) NOT NULL,
    LastName varchar(20) NOT NULL,
    Address1 varchar(40) NOT NULL,
    Addresss2 varchar(10) NULL,
    State Char(2) NOT NULL,
    Zip varchar(10) NOT NULL,
    Phone varchar(12) NOT NULL,
    CustomerType char NOT NULL,
    CONSTRAINT Customer_PK PRIMARY KEY (CustomerID));

CREATE TABLE Individual (
    CustomerID int NOT NULL,
    DateOfBirth date NULL,
    WinePreference varchar(10) NULL,
    CONSTRAINT Indiv_PK PRIMARY KEY (CustomerID),
    CONSTRAINT Indiv_FK FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID));

CREATE TABLE Corporate (
    CustomerID int NOT NULL,
    CompanyName varchar(25) NOT NULL,
    TAXID varchar(15) NOT NULL,
    ReSaleLicense int NULL,
    Discount decimal(2,2) NULL,
    CONSTRAINT Corp_PK PRIMARY KEY (CustomerID),
    CONSTRAINT Corp_FK FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID));

CREATE TABLE RentalOrder (
    RoomID int NOT NULL,
    CustomerID int NOT NULL,
    RentalDate date NOT NULL,
    NumberOfNights int NULL,
    CONSTRAINT RentalOrder_PK PRIMARY KEY (RoomID, CustomerID),
    CONSTRAINT RentalOrder_FK1 FOREIGN KEY (RoomID) REFERENCES CottageRoom(RoomID),
    CONSTRAINT RentalOrder_FK2 FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID));

CREATE TABLE CottageRoom (
    RoomID int NOT NULL,
    Operational char NOT NULL,
```

```
    PricePerNight decimal(6,2) NOT NULL,
CONSTRAINT CottageRoom_PK PRIMARY KEY (RoomID));

CREATE TABLE EventOrder (
    CustomerID int NOT NULL,
    EventID int NOT NULL,
    StartTime datetime NOT NULL,
    EndTime datetime NULL,
CONSTRAINT EventOrder_PK PRIMARY KEY (CustomerID, EventID),
CONSTRAINT EventOrder_FK1 FOREIGN KEY (EventID) REFERENCES Event(EventID),
CONSTRAINT EventOrder_FK2 FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID));

CREATE TABLE Event (
    EventID int NOT NULL,
    EventType varchar(40) NULL,
CONSTRAINT Event_PK PRIMARY KEY (EventID));

--CREATE TABLE Blend (
--    BlendID int NOT NULL,
--    GrapeID int NOT NULL,
--    GrapeProportion decimal(2,2) NOT NULL,
--    AgingYears int NULL,
--CONSTRAINT Blend_PK PRIMARY KEY (BlendID));

CREATE TABLE Grape (
    GrapeID int NOT NULL,
    WineProductID varchar(20) NOT NULL,
    VineyardID int NOT NULL,
    Varietal varchar(20) NOT NULL,
    AgingYears int NULL,
    HarvestDate date NOT NULL,
    WeightHarvested NUMERIC(10,2),
    JuiceConvRatio decimal(2,2) NULL,
    PercentSugar decimal(2,2) NULL,
    StorageContainer varchar(20) NULL,
CONSTRAINT Grape_PK PRIMARY KEY (GrapeID),
CONSTRAINT Grape_FK1 FOREIGN KEY (WineProductID) REFERENCES WineProduct(ProductID),
CONSTRAINT Grape_FK2 FOREIGN KEY (VineyardID) REFERENCES Vineyard(VineyardID));

--CREATE TABLE Harvest (
--    HarvestID int NOT NULL,
--    VineyardID int NOT NULL,
--    Date date NOT NULL,
--    Varietal varchar(20) NOT NULL,
--    Weight NUMERIC(10,0) NULL,
--CONSTRAINT Harvest_PK PRIMARY KEY (HarvestID),
--CONSTRAINT Harvest_FK FOREIGN KEY (VineyardID) REFERENCES Vineyard(VineyardID));

CREATE TABLE Vineyard (
    VineyardID int NOT NULL,
    Name varchar(50) NOT NULL,
    Address1 varchar(40) NOT NULL,
```

```

    State Char(2) NOT NULL,
    Zip varchar(10) NOT NULL,
    Phone varchar(12) NOT NULL,
    Addresss2 varchar(10) NULL,
    Acres int NOT NULL,
    VarietalPlanted NUMERIC(5,2) NULL,
CONSTRAINT Vineyard_PK PRIMARY KEY (VineyardID));

```

--Employee Data Being Entered

```

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
    DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
    Phone, Email, EMC_FirstName,
        EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
        TipsCertDate, SecondaryPosition)
VALUES (146503, null, 'Winemaker', 'Paxton', 'Parker', '2016-05-30', '929-71-8544',
    '1970-04-10', '1234 Maryland Way', 'B', 'CO', '80002-3235', '952-740-8768',
    '12345@gmail.com', 'Azul',
    'Dudley', '402-509-0702', 33.00, 45.00, 1, '2021-07-04', null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
    DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
    Phone, Email, EMC_FirstName,
        EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
        TipsCertDate, SecondaryPosition)
VALUES
    (146527, null, 'Winemaker', 'Bradyn', 'Ray', '2017-02-26', '590-90-9947', '1971-01-18', '435
    2 Doolittle Ln', null, 'CO', '80003-2224', '706-403-6334', '12346@gmail.com', 'Salma',
    'Daugherty', '329-141-3975', 28.00, 30.00, 1, '2021-07-31', null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
    DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
    Phone, Email, EMC_FirstName,
        EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
        TipsCertDate, SecondaryPosition)
VALUES (146530, null, 'Event
    Management', 'Kyson', 'Mccarthy', '2018-09-22', '728-77-0622', '1971-03-31', '4362
    Colorview
    Way', null, 'CO', '80003-2225', '396-427-1176', '12347@gmail.com', 'Savanah', 'Davidson', '4
    98-652-5900', 31, 36, 1, '2021-11-08', null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
    DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
    Phone, Email, EMC_FirstName,
        EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
        TipsCertDate, SecondaryPosition)
VALUES (146563, null, 'Event
    Management', 'Jaxson', 'Blackburn', '2016-11-01', '303-42-8374', '1972-12-14', '0976
    Happyland
    Street', null, 'CO', '80003-2226', '907-725-1987', '12348@gmail.com', 'Melina', 'Reilly', '2
    35-980-6267', 53, 58, 1, '2021-03-05', null)

```

```

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES (146652,null,'House
Keeper','Jesse','Franklin','2017-01-02','158-72-3176','1973-01-03','1234 Figueroa
Ln',null,'CO','80003-2227','301-320-7053','12349@gmail.com','Kayleigh','Vasquez','42
8-816-1047',52,58,1,'2021-11-11',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES (146686,null,'House
Keeper','Tamia','Todd','2017-02-23','562-16-6631','1973-03-01','1234 Jackson
Way',null,'CO','80003-2228','434-275-8988','12350@gmail.com','Gretchen','Rowland','7
04-845-3112',26,28,1,'2021-09-03',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES (146760,null,'House
Keeper','Seamus','Chapman','2017-04-13','737-34-8540','1973-04-19','1234 Englewood
Way',null,'CO','80112-3847','636-172-1276','12351@gmail.com','Randall','Blackburn','
856-200-9146',21,26,1,'2021-09-23',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES
(146802,null,'Distribution','Abram','Green','2017-05-29','286-72-2486','1974-02-18',
'1234 Jerry Lewis
St',null,'CO','80112-3848','193-035-4057','12352@gmail.com','Anne','Benjamin','122-6
18-5248',40,44,1,'2021-11-23',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES
(146900,null,'Distribution','Tyrell','Neal','2017-06-27','132-65-7557','1974-05-21',
'1234 Campo
Drive',null,'CO','80112-3849','726-524-3381','12353@gmail.com','Alex','Woodard','270
-680-1856',53,57,1,'2021-03-19',null)

```



```
INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
```

```
VALUES
(146946,null,'Warehouse','Carl','Banks','2017-07-04','413-17-6411','1975-05-29','123
4 N Freeman
St',null,'CO','80112-3850','564-161-3526','12354@gmail.com','Talia','Lester','126-33
1-7747',50,53,1,'2021-12-01',null)
```

```
INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
```

```
VALUES
(147036,null,'Warehouse','Jessica','Duncan','2017-09-11','497-31-988','1977-01-07','
1234 MickyD
Way',null,'CO','80112-3851','148-403-3572','12355@gmail.com','Jordon','Frank','170-7
29-5375',30,32,1,'2021-11-18',null)
```

```
INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
```

```
VALUES
(147042,null,'Driver','Justice','Arias','2017-09-21','201-18-3498','1980-05-13','123
4 Johnson
Ln','g','CO','80521-3456','901-770-2505','12356@gmail.com','Tucker','Kirby','538-805
-3112',51,52,1,'2021-03-18',null)
```

```
INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
```

```
VALUES
(147049,null,'Driver','Serenity','Anderson','2017-09-25','934-66-6386','1980-07-08',
'1257 Jaguar
St',null,'CO','80521-3457','428-547-2139','12357@gmail.com','Fisher','Moran','288-10
0-2581',54,59,1,'2021-08-19',null)
```

```
INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
```

```
VALUES
(147113,null,'Clerk','Maria','Gordon','2017-10-18','680-79-3157','1982-10-22','3574
```

```

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Lion Tiger
St','h','CO','80521-3458','348-570-4014','12358@gmail.com','Addyson','Bonilla','167-
431-1294',51,52,1,'2021-11-20',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES
(147153,null,'Clerk','Brianna','Bautista','2017-11-09','947-41-4887','1983-03-02','6
335 Mountain
View',null,'CO','80521-3459','898-313-7538','12359@gmail.com','Rachael','Abbott','59
0-765-0048',21,28,1,'2021-02-14',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES
(147220,null,'Clerk','Mckenna','Marks','2018-08-22','271-35-7295','1984-07-26','5634
JimJohn
Ln','s','CO','80521-3460','898-368-1426','12360@gmail.com','Veronica','Hodges','614-
212-8723',47,57,1,'2021-05-19',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES
(147279,null,'Viticulturalist','Madilyn','Bradley','2018-09-19','397-93-1871','1986-
02-28','1244 Jackson
View',null,'CO','80521-3461','670-110-9069','12361@gmail.com','Xiomara','Carlson','7
16-792-5391',48,55,1,'2021-10-05',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES
(147301,null,'Viticulturalist','Jaime','Lester','2018-11-27','613-34-8580','1986-12-
10','1242 Sierra Mountain
Way',null,'CO','80521-3462','166-330-8876','12362@gmail.com','Owen','Johns','785-948
-1573',29,36,1,'2021-06-28',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,

```

```
TipsCertDate, SecondaryPosition)
VALUES
(147309,null,'Viticulturalist','Morgan','Hill','2019-02-01','663-18-993','1988-12-23',
', '6432 Hop Scotch
Ln','v','CO','80521-3463','909-426-9190','12363@gmail.com','Ben','Cross','645-931-84
04',30,37,1,'2021-11-16',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES
(147392,null,'Viticulturalist','Magdalena','Huang','2017-02-25','739-62-7806','1989-
10-26','7544 Happy Go Lucky
Way',null,'CO','80521-3464','951-415-6128','12364@gmail.com','Dakota','Rios','786-03
1-3319',42,44,1,'2021-06-20',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES
(147432,null,'Viticulturalist','Draven','Gill','2019-02-13','217-33-4100','1991-01-0
3','7344 Bored
Ave','674','CO','80521-3465','678-907-4773','12365@gmail.com','Octavio','Hutchinson'
', '360-802-4101',24,25,1,'2021-06-05',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES
(147447,null,'Viticulturalist','Sabrina','Melendez','2019-05-17','533-99-9855','1992
-02-25','3251 Ape
Ave',null,'CO','80521-3466','409-548-8266','12366@gmail.com','Jameson','Zavala','885
-554-0855',38,45,1,'2021-02-08',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
VALUES
(147467,null,'Viticulturalist','Madison','Mason','2019-06-11','381-39-9281','1998-08
-24','3251 Apple
Way','1','CO','80521-3467','479-025-4460','12367@gmail.com','Shirley','Petersen','36
3-515-8639',28,33,1,'2021-12-06',null)

INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
```

```
Phone, Email, EMC_FirstName,
      EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
      TipsCertDate, SecondaryPosition)
```

VALUES

```
(147474,null,'Viticulturalist','Noe','Sullivan','2019-07-15','686-68-8191','1999-11-02',
'9858 Newtire St',null,'CO','80521-3468','152-212-5154','12368@gmail.com','London','Romero','561-672-8491',
30,37,1,'2021-11-14',null)
```

```
INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
      EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
      TipsCertDate, SecondaryPosition)
```

VALUES

```
(147529,null,'Viticulturalist','Alexandra','Welch','2019-12-03','622-59-8525','2000-01-10',
'7341 Jimmy St','986','CO','80521-3469','806-096-6216','12369@gmail.com','Lyric','Arias','705-933-7324',
44,48,1,'2021-12-20',null)
```

```
INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
      EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
      TipsCertDate, SecondaryPosition)
```

VALUES

```
(147621,null,'Viticulturalist','Jewel','Crosby','2017-09-19','795-72-6273','1977-01-07',
'5323 apple view way',null,'CO','80521-3470','569-622-0459','12370@gmail.com','Avery','Cook','537-149-9010',
25,26,1,'2021-06-21',null)
```

```
INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
      EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
      TipsCertDate, SecondaryPosition)
```

VALUES

```
(147650,null,'Winemaking Intern','Alayna','Santiago','2022-04-23','609-79-402','2001-03-23','7432
wsfgwe',null,'CO','80521-3471','371-785-4713','12371@gmail.com','Jenny','Montoya','886-889-9960',
36,44,1,'2021-02-27',null)
```

```
INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
      EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
      TipsCertDate, SecondaryPosition)
```

VALUES

```
(147658,null,'Viticulture Intern','Lillian','Colon','2022-04-23','595-36-9232','2001-04-01','6332
sdgwearhsreg',null,'CO','80521-3472','134-661-4120','12372@gmail.com','Taylor','Kaufman',
'910-930-4789',29,36,1,'2021-10-22',null)
```

```
INSERT INTO Employee (EmployeeID, ManagerID, PrimaryPosition, FirstName, LastName,
```

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```
DateEmployed, SocialSecurityNumber, BirthDate, Address1, Addresss2, State, Zip,
Phone, Email, EMC_FirstName,
EMC_LastName, EMC_Phone, InitialPay, CurrentPay, TipsCert,
TipsCertDate, SecondaryPosition)
```

```
VALUES (147700,null,'Viticulture
Intern','Kaylin','Lowery','2022-04-23','978-11-2052','2000-09-03','3252
sdgahsrnbadsbdbdbnss','345','CO','80521-3473','384-949-3168','12373@gmail.com','Adr
ienne','Prince','166-754-4856',31,37,1,'2021-09-11',null)
```

```
--UPDATE Employee
--SET ManagerID=146527
--WHERE EmployeeID=146503
```

```
--UPDATE Employee
--SET ManagerID=146563
--WHERE EmployeeID=146530
```

```
--UPDATE Employee
--SET ManagerID=146760
--WHERE EmployeeID=146652
```

```
--UPDATE Employee
--SET ManagerID=146760
--WHERE EmployeeID=146686
```

```
--UPDATE Employee
--SET ManagerID=146900
--WHERE EmployeeID=146802
```

```
--UPDATE Employee
--SET ManagerID=147036
--WHERE EmployeeID=146946
```

```
--UPDATE Employee
--SET ManagerID=147049
--WHERE EmployeeID=147042
```

```
--UPDATE Employee
--SET ManagerID=147220
--WHERE EmployeeID=147113
```

```
--UPDATE Employee
--SET ManagerID=147220
--WHERE EmployeeID=147153
```

```
--UPDATE Employee
--SET ManagerID=147392
--WHERE EmployeeID=147279
```

```
--UPDATE Employee
--SET ManagerID=147392
--WHERE EmployeeID=147301
```

```
--UPDATE Employee
--SET ManagerID=147392
--WHERE EmployeeID=147309
```

```
--UPDATE Employee
--SET ManagerID=147621
--WHERE EmployeeID=147432
--UPDATE Employee
--SET ManagerID=147621
--WHERE EmployeeID=147447
--UPDATE Employee
--SET ManagerID=147621
--WHERE EmployeeID=147467
--UPDATE Employee
--SET ManagerID=147621
--WHERE EmployeeID=147474
--UPDATE Employee
--SET ManagerID=147621
--WHERE EmployeeID=147529
--UPDATE Employee
--SET ManagerID=146527
--WHERE EmployeeID=147650
--UPDATE Employee
--SET ManagerID=147621
--WHERE EmployeeID=147658
--UPDATE Employee
--SET ManagerID=147621
--WHERE EmployeeID=147700
```

```
--InternEmployee Data Being Entered
```

```
INSERT INTO InternEmployee (EmployeeID, Requirement, StartDate, GraduationDate)
VALUES (147650, 'Develop winemaking process outline', '2022-04-23', '2022-10-01')
```

```
INSERT INTO InternEmployee (EmployeeID, Requirement, StartDate, GraduationDate)
VALUES (147658, 'Manage 2022 Harvest', '2022-04-23', '2022-12-01')
```

```
INSERT INTO InternEmployee (EmployeeID, Requirement, StartDate, GraduationDate)
VALUES (147700, 'Manage 2022 Harvest', '2022-04-23', '2022-12-01')
```

```
--VintnerEmployee Data Being Entered
```

```
INSERT INTO VintnerEmployee (EmployeeID, CertLevel, CertDate, ReCertDate,
ReCertResult)
VALUES (147279, 'Advanced', '2021-06-04', '2023-06-04', 'Unknown')
```

```
INSERT INTO VintnerEmployee (EmployeeID, CertLevel, CertDate, ReCertDate,
ReCertResult)
VALUES (147301, 'Proficient', '2021-05-24', '2023-05-24', 'Unknown')
```

```
INSERT INTO VintnerEmployee (EmployeeID, CertLevel, CertDate, ReCertDate,
```

```
ReCertResult)
VALUES (147309, 'Beginner', '2021-11-19', '2023-11-19', 'Unknown')

INSERT INTO VintnerEmployee (EmployeeID, CertLevel, CertDate, ReCertDate,
ReCertResult)
VALUES (147392, 'Proficient', '2021-11-06', '2023-11-06', 'Unknown')

INSERT INTO VintnerEmployee (EmployeeID, CertLevel, CertDate, ReCertDate,
ReCertResult)
VALUES (147432, 'Beginner', '2021-11-23', '2023-11-23', 'Unknown')

INSERT INTO VintnerEmployee (EmployeeID, CertLevel, CertDate, ReCertDate,
ReCertResult)
VALUES (147447, 'Advanced', '2021-06-10', '2023-06-10', 'Unknown')

INSERT INTO VintnerEmployee (EmployeeID, CertLevel, CertDate, ReCertDate,
ReCertResult)
VALUES (147467, 'Advanced', '2021-06-30', '2023-06-30', 'Unknown')

INSERT INTO VintnerEmployee (EmployeeID, CertLevel, CertDate, ReCertDate,
ReCertResult)
VALUES (147474, 'Beginner', '2021-07-30', '2023-07-30', 'Unknown')

INSERT INTO VintnerEmployee (EmployeeID, CertLevel, CertDate, ReCertDate,
ReCertResult)
VALUES (147529, 'Advanced', '2021-08-17', '2023-08-17', 'Unknown')

INSERT INTO VintnerEmployee (EmployeeID, CertLevel, CertDate, ReCertDate,
ReCertResult)
VALUES (147621, 'Advanced', '2021-05-12', '2023-05-12', 'Unknown')

--DriverEmployee Data Being Entered

INSERT INTO DriverEmployee (EmployeeID, CDLid, CDL_ExpDate)
VALUES (147042, 2353743, '2023-04-05')

INSERT INTO DriverEmployee (EmployeeID, CDLid, CDL_ExpDate)
VALUES (147049, 2215978, '2023-05-03')

--Certification Data Being Entered

INSERT INTO Certification ( CertID, EmployeeID, CertName)
VALUES (1, 146503, 'WSET')

INSERT INTO Certification ( CertID, EmployeeID, CertName)
VALUES (2, 146503, 'CMNS')

INSERT INTO Certification ( CertID, EmployeeID, CertName)
VALUES (3, 146563, 'WDJK')

INSERT INTO Certification ( CertID, EmployeeID, CertName)
VALUES (4, 146563, 'HFIS')
```

```
INSERT INTO Certification ( CertID, EmployeeID, CertName)
VALUES (5,147113,'MNCH')
```

```
INSERT INTO Certification ( CertID, EmployeeID, CertName)
VALUES (6,147153,'JMOS')
```

```
INSERT INTO Certification ( CertID, EmployeeID, CertName)
VALUES (7,147220,'JMOA')
```

```
INSERT INTO Certification ( CertID, EmployeeID, CertName)
VALUES (8,146527,'JSOA')
```

--Vendor Data Being Entered

```
INSERT INTO Vendor (VendorID, Name, Address1, Addresss2, ContactName, ContactPhone)
VALUES ('BTB112','Bob The Builder','1234 Guild Way','#112','Bob
Builder','547-902-9181')
```

```
INSERT INTO Vendor (VendorID, Name, Address1, Addresss2, ContactName, ContactPhone)
VALUES ('BRU642','BottlesRUs','1234 Live Way',null,'Bottle Man','980-766-0988')
```

```
INSERT INTO Vendor (VendorID, Name, Address1, Addresss2, ContactName, ContactPhone)
VALUES ('BFY135','BottlesForYou','1234 Empire Ln',null,'Jerry Jim','836-809-2342')
```

--Purchase Order Data Being Entered

```
INSERT INTO PurchaseOrder (VendorID, BottleID, Quantity, Price)
VALUES ('BTB112',5,12345,3.25)
```

```
INSERT INTO PurchaseOrder (VendorID, BottleID, Quantity, Price)
VALUES ('BTB112',4,6453,2.13)
```

```
INSERT INTO PurchaseOrder (VendorID, BottleID, Quantity, Price)
VALUES ('BRU642',3,433,2)
```

```
INSERT INTO PurchaseOrder (VendorID, BottleID, Quantity, Price)
VALUES ('BRU642',2,34789,1.25)
```

```
INSERT INTO PurchaseOrder (VendorID, BottleID, Quantity, Price)
VALUES ('BFY135',1,9348,5)
```

--Bottle Data Being Entered

```
INSERT INTO Bottle (BottleID, ProductID, size, GlassType, OnHandQuantity)
VALUES (64532,131128,750,'Champagne',12345)
```

```
INSERT INTO Bottle (BottleID, ProductID, size, GlassType, OnHandQuantity)
VALUES (64531,867334,750,'Fortified',6886)
```

```
INSERT INTO Bottle (BottleID, ProductID, size, GlassType, OnHandQuantity)
VALUES (65478,696575,87.5,'Rhine',34789)
```



```
INSERT INTO Bottle (BottleID, ProductID, size, GlassType, OnHandQuantity)
VALUES (78249,1316530,100,'Rhone',9348)
```

```
--WineProduct Data Being Entered
```

```
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('696575',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('497383',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('954930',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('267273',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('754405',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('210782',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('327683',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('1096823',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('107253',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('172798',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('998926',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('131128',146503,'VTC Cab','Red','Cab
Franc','2016',0.14,35.25)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('1316530',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('442078',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('735203',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
```

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```
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('829579',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('193028',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('451177',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('1224245',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('1101996',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('421583',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('146927',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('970785',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('805965',146503,'VTC
Merlot','Red','Merlot','2017',0.12,40)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('867334',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('845229',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('436768',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('629187',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('541684',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('1014583',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('1218303',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('1017730',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
```

```

PercentAlch, Price) VALUES ('610652',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('830139',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('1196340',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)
INSERT INTO WineProduct(ProductID, EmployeeID, Name, Category, Varietal, Vintage,
PercentAlch, Price) VALUES ('614684',146527,'VTC
Sangiovese','Red','Sangiovese','2016',0.13,36.75)

```

--Product Data Being Entered

```

INSERT INTO Product (ProductID, SKUID, ProductType)
VALUES ('696575',1,'W')

```

```

Insert into Product (ProductID, SKUID, ProductType) VALUES ('497383',2,'W')

```

```

Insert into Product (ProductID, SKUID, ProductType) VALUES ('954930',3,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('267273',4,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('754405',5,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('210782',6,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('327683',7,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('1096823',8,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('107253',9,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('172798',10,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('998926',11,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('131128',12,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('1316530',13,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('442078',14,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('735203',15,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('829579',16,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('193028',17,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('451177',18,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('1224245',19,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('1101996',20,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('421583',21,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('146927',22,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('970785',23,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('805965',24,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('867334',25,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('845229',26,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('436768',27,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('629187',28,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('541684',29,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('1014583',30,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('1218303',31,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('1017730',32,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('610652',33,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('830139',34,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('1196340',35,'W')

```

```
Insert into Product (ProductID, SKUID, ProductType) VALUES ('614684',36,'W')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('234',56487,'F')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('235',23435,'F')
Insert into Product (ProductID, SKUID, ProductType) VALUES ('236',3432,'F')
```

--Food Data Being Entered

```
INSERT INTO Food (ProductID, FoodType, Price) VALUES (234,'Chocolate Raisens',5)
INSERT INTO Food (ProductID, FoodType, Price) VALUES (235,'Pita Chips',4.25)
INSERT INTO Food (ProductID, FoodType, Price) VALUES (236,'Bag of Grapes',5)
```

--Customer Data Being Entered

```
INSERT INTO Customer
  (CustomerID,FirstName,LastName,Address1,Addresss2,State,Zip,Phone,CustomerType)
VALUES (10001,'Jo','Smo','1234 Willow Way','null','CO','12345','595-345-0987','I')
INSERT INTO Customer
  (CustomerID,FirstName,LastName,Address1,Addresss2,State,Zip,Phone,CustomerType)
VALUES (10002,'Jeff','Smithers','1234 Jillian
Way','B','CA','92592','123-456-3234','I')
```

--OrderLine Data Being Entered

```
INSERT INTO OrderLine (OrderNumber, ProductID, Quantity, SalePrice) VALUES
('12301',696575,1,31.725)
INSERT INTO OrderLine (OrderNumber, ProductID, Quantity, SalePrice) VALUES
('12301',235,4,3.825)
INSERT INTO OrderLine (OrderNumber, ProductID, Quantity, SalePrice) VALUES
('12302',234,5,5)
INSERT INTO OrderLine (OrderNumber, ProductID, Quantity, SalePrice) VALUES
('12302',805965,1,40)
INSERT INTO OrderLine (OrderNumber, ProductID, Quantity, SalePrice) VALUES
('12302',867334,1,36.75)
INSERT INTO OrderLine (OrderNumber, ProductID, Quantity, SalePrice) VALUES
('12302',614684,1,36.75)
```

--Order Data Being Entered

```
INSERT INTO Order_T
  (OrderNumber,CustomerID,PlacementDate,Fulfillment,FulfillmentStatus) VALUES
('12301',10001,'2021-12-01','2021-12-01','F')
INSERT INTO Order_T
  (OrderNumber,CustomerID,PlacementDate,Fulfillment,FulfillmentStatus) VALUES
('12302',10002,'2022-01-10','2022-01-10','Fulfilled')
```

--Payment Data Being Entered

```
INSERT INTO Payment (PaymentID,PaymentType) VALUES (1,'CreditCard')
INSERT INTO Payment (PaymentID,PaymentType) VALUES (2,'Cash')
INSERT INTO Payment (PaymentID,PaymentType) VALUES (3,'DebitCard')
```

```
SELECT *
FROM Customer;
SELECT *
FROM Order_T;
SELECT *
FROM OrderLine;
```

```
DELETE FROM Customer WHERE FirstName = 'Jo'
```

--10 Queries

--How many people are employed by Primary Position

```
SELECT PrimaryPosition, count(*) AS EmployeeCount
FROM SmithBryce655.dbo.Employee
GROUP BY PrimaryPosition
ORDER BY EmployeeCount DESC
```

--List the Vineyard Trading Companies employees with their managers name

```
SELECT E1.EmployeeId, E1.ManagerID, E1.FirstName, E1.PrimaryPosition AS
    EmployeePosition, E2.FirstName, E2.PrimaryPosition AS ManagerPosition
FROM SmithBryce655.dbo.Employee AS E1
LEFT JOIN SmithBryce655.dbo.Employee AS E2
ON E1.ManagerID = E2.EmployeeID
```

--Who has worked at the vineyard the longest?

```
SELECT FirstName, LastName, PrimaryPosition, DATEDIFF(month, DateEmployed, getdate())
    AS MonthsEmployed
FROM SmithBryce655.dbo.Employee
ORDER BY MonthsEmployed DESC;
```

--Percentage increase of pay by employee

```
SELECT FirstName, LastName, PrimaryPosition, InitialPay, CurrentPay, CAST(Round
    (((CurrentPay - InitialPay)/InitialPay)*100,2) AS Numeric(4,2)) AS PercentIncrease
FROM SmithBryce655.dbo.Employee
ORDER BY PercentIncrease DESC;
```

--Customers with the name of the items they bought

```
SELECT C.FirstName, C.LastName, F.FoodType, WP.Name, OL.Quantity
FROM Customer AS C
LEFT JOIN Order_T AS O
ON O.CustomerID = C.CustomerID
LEFT JOIN OrderLine as OL
ON OL.OrderNumber = O.OrderNumber
```

```
LEFT JOIN Food AS F
ON F.ProductID = OL.ProductID
LEFT JOIN WineProduct as WP
ON WP.ProductID = OL.ProductID
```

--Order Totals

```
SELECT DISTINCT OrderNumber, SUM(Quantity * SalePrice) AS OrderTotal
FROM SmithBryce655.dbo.OrderLine
GROUP BY OrderNumber
```

--Order by PaymentType

```
SELECT C.FirstName, O.OrderNumber, P.PaymentType
FROM Customer C
JOIN Order_T O
ON C.CustomerID = O.CustomerID
JOIN Payment P
ON P.PaymentID = O.PaymentID
```

--Intern Names and Requirements

```
SELECT E.FirstName, E.LastName, I.Requirement
FROM Employee E
JOIN InternEmployee I
ON E.EmployeeID = I.EmployeeID
```

--Vintners by Certification Level

```
SELECT E.FirstName, E.LastName, V.CertLevel
FROM Employee E
JOIN VintnerEmployee V
ON E.EmployeeID = V.EmployeeID
```

--Months until drivers CDL expiration date

```
SELECT E.FirstName, E.LastName, DATEDIFF(month, getdate(), D.CDL_ExpDate) AS Months
FROM Employee E
JOIN DriverEmployee D
ON E.EmployeeID = D.EmployeeID;
```