Team Name: Database Dimez

Team Motto: D’s are for Database

Team Lead:

Robert Lumadue

Team Members:

Comeskey, Matthew

Elliott, Kaydiann

Hartman, Justin

Contents

Purpose

The goal of this document is to outline how a database can be created, mapped out and implemented for a private business that mainly uses excel spreadsheets. Contained in this document are the narrative, requirements, entities, ERD/EERD, relational schema, data dictionary, table view, SPROCS, Reports, and user test queries.

Narrative

Smallville is a small privately owned business that wants to create a database for managing and tracking customers, orders, suppliers, products and employees rather than using multiple excel spreadsheets.

Smallville wants to be able to track the three different types of employees they have: Salary, Sales and Hourly. Each employee will have name, address, phone number and email. Sales employees will be assigned a customer, but can have more than one, and each customer can have more than one sales employee.

Customers place orders through smallville and those orders will contain products. Each customer will have a customer number, first name, last name, address and phone number. Once an order is placed, the order will populate in the system and will contain an order number, date of order, and status. Orders are made up of products that smallville keeps in their system. Each product will have a product number, description, "list price," and quantity available to identify them. An order has to contain at least one product, but can include many products. Once a product is ordered it can be tracked by quantity ordered, quantity supplied, and "Order price".

Smallville has also decided to start tracking their suppliers and the products that they get from each supplier. Each supplier provides at least one product and different suppliers can carry the same product. Therefore Smallville has many suppliers that provide them with many products.

Requirements

(Actors and Roles)

CUSTOMER - A customer places one or more orders. A customer can be assigned to one or more Sales Reps.

ORDER - An order can only belong to one and only one customer. Orders are for one or more products.

PRODUCT- A product has multiple orders or it has no order associated. A product can have more than one supplier.

EMPLOYEE- There are three categories of employees: Sales Reps, Hourly Workers, and Salary Workers. Sales Reps have at least one or more customers.

SUPPLIER- A supplier can offer one or more products.

Entities Identified to be tracked

1. CUSTOMER
2. ORDER
3. PRODUCT
4. EMPLOYEE
5. SUPPLIER

Entities with Nested Attributes

CUSTOMER - CustomerNumber, First Name, Last Name, Street, City, State, Zip Code, Phone Number

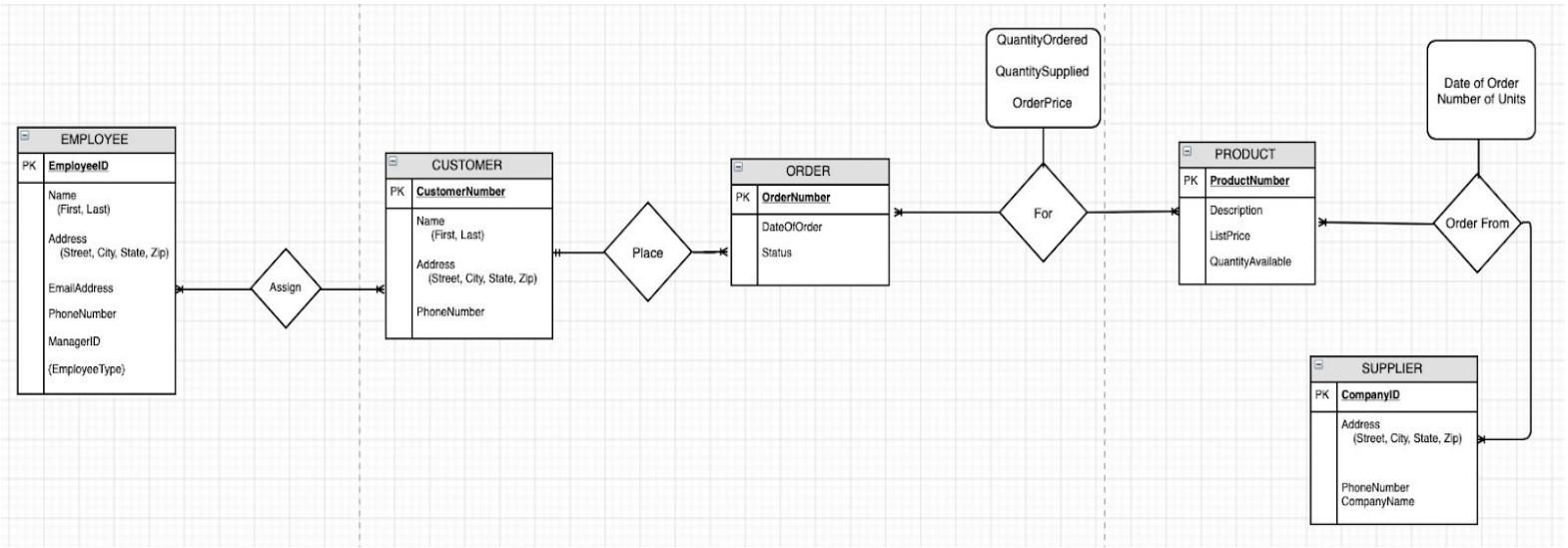
ORDER - OrderNumber, Date of Order, Status

PRODUCT - ProductNumber, Description, List Price, Quantity Available

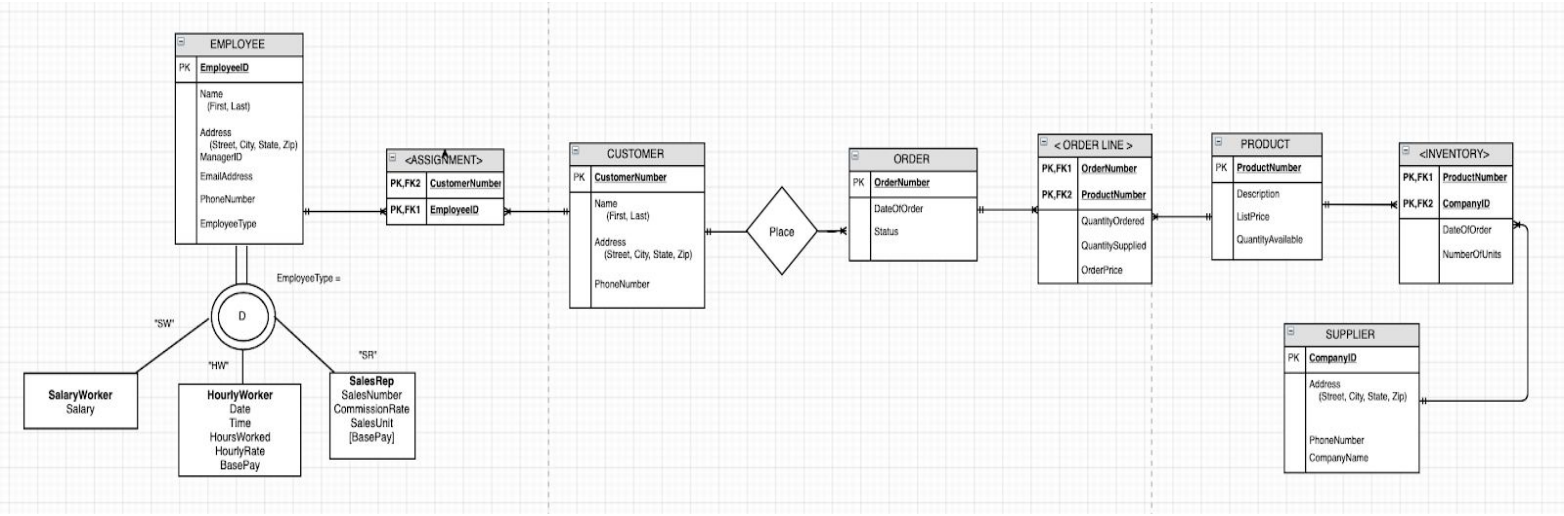
EMPLOYEE - EmployeeID, First Name, Last Name, Street, City, State, Zip Code, Email Address, Phone Number, Employee Type

SUPPLIER - CompanyID, CompanyName, Street, City, State, Zip Code, Phone Number

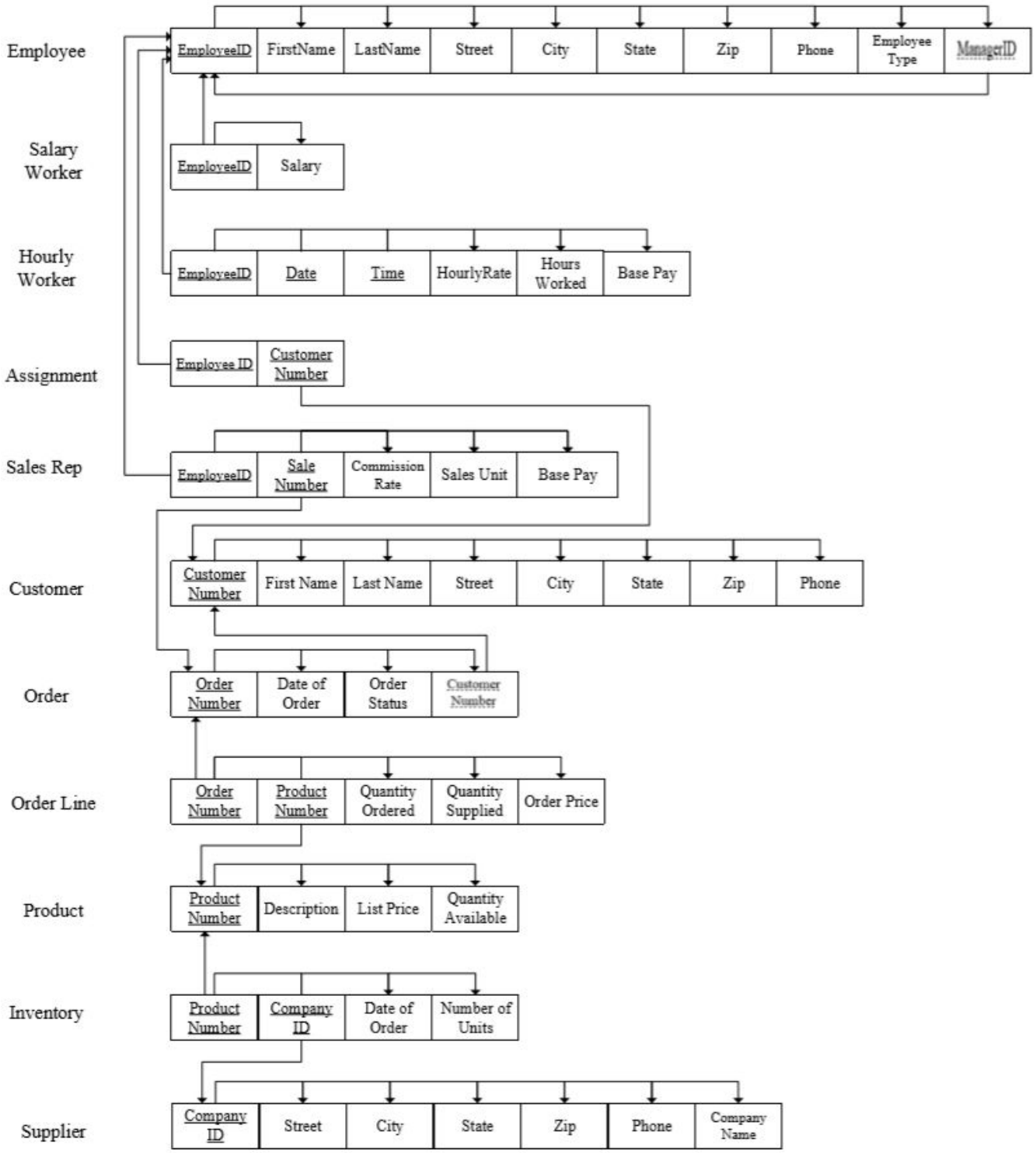
ERD


EMPLOYEE
PK
EmployeeID
Name
(First, Last)
Address
(Street, City, State, Zip)
EmailAddress
PhoneNumber
ManagerID
{EmployeeType}
Assign
CUSTOMER
PK
CustomerNumber
Name
(First, Last)
Address
(Street, City, State, Zip)
PhoneNumber
Place
ORDER
PK
OrderNumber
DateOfOrder
Status
QuantityOrdered
QuantitySupplied
OrderPrice
For
PRODUCT
PK
ProductNumber
Description
ListPrice
QuantityAvailable
Date of Order
Number of Units
Order From
SUPPLIER
PK
CompanyID
Address
(Street, City, State, Zip)
PhoneNumber
CompanyName

EERD


EMPLOYEE
PK EmployeeID
Name (First, Last)
Address (Street, City, State, Zip)
ManagerID
EmailAddress
PhoneNumber
EmployeeType
<ASSIGNMENT>
PK,FK2 CustomerNumber
PK,FK1 EmployeeID
CUSTOMER
PK CustomerNumber
Name (First, Last)
Address (Street, City, State, Zip)
PhoneNumber
Place
ORDER
PK OrderNumber
DateOfOrder
Status
< ORDER LINE >
PK,FK1 OrderNumber
PK,FK2 ProductNumber
QuantityOrdered
QuantitySupplied
OrderPrice
PRODUCT
PK ProductNumber
Description
ListPrice
QuantityAvailable
<INVENTORY>
PK,FK1 ProductNumber
PK,FK2 CompanyID
DateOfOrder
NumberOfUnits
SUPPLIER
PK CompanyID
Address (Street, City, State, Zip)
PhoneNumber
CompanyName
EmployeeType =
D
"SW"
"HW"
"SR"
SalaryWorker
Salary
HourlyWorker
Date
Time
HoursWorked
HourlyRate
BasePay
SalesRep
SalesNumber
CommissionRate
SalesUnit
[BasePay]

Relational Schema



Data Dictionary Summary

Employee (EmployeeID, FirstName, LastName, Street, City, Sate, Zip, Email, PhoneNumber, EmployeeType, ManagerID)

Salary Worker (EmployeeID, Salary)

Hourly Worker (EmployeeID, Date, Time, HoursWorked, HourlyRate, [BasePay],)

Sales Rep (EmployeeID, SaleNumber,Commission Rate, [BasePay], SalesUnit)

Assignment (EmployeeID, CustomerNumber)

Customer (CustomerNumber, FirstName, LastName, Street, City, Sate, Zip, PhoneNumber)

Order (OrderNumber, OrderPrice, OrderStatus, CustomerNumber)

OrderLine (OrderNumber, ProductNumber, QuantityOrdered, QuantitySupplied, OrderPrice)

Product (ProductNumber, Description, ListPrice, QuantityAvailable)

Invetory (ProductNumber, CompanyID, OrderDate, NumberOfUnits)

Supplier (CompanyID, CompanyName, Street, City, Sate, Zip, PhoneNumber)

Smallville - Data Dictionary

(Microsoft SQL server notation)

Table: **Employee**

Column Name	Description	Data Type	Size	Indentity	Unique	Default	Check	Allow Nulls	Index
EmployeeID	PK; Unique Sequntial Employee Number	int		Y					Y
First Name	Employee first name	nvarchar	20						
Last Name	Employee last name	nvarchar	20						
Street	Employee street residence	nvarchar	30						
City	Employee City residence	nvarchar	25						
State	Employee State Residence	nvarchar	2				LIKE '[A-Z][A-Z]'		
Zip	Employee Zip code	nvarchar	5				LIKE '[0-9][0-9][0-9][0-9][0-9]'		
Email	Employee Email Addess	nvarchar	20		Y				Y
Phone Number	Employee Phone Number	nvarchar	14		Y		LIKE '[0-9][0-9][0-9][0-9][0-9][0 -9]-[0-9][0-9][0-9][0-9]'		
Employee Type	Specified as HW, SR, SW	nvarchar	10						Y
ManagerID	Recursive FK, Similar to EmployeeID	int						Y	Y

Table: **Hourly Worker**

Column Name	Description	Data Type	Size	Indentity	Unique	Default	Check	Allow Nulls	Index
EmployeeID	CPK, Links back to the Employee Table	int							Y
Date	CPK; Track Date worked	date							Y
Time	CPK; Tracks time clocked in	time	4						Y
Hourly Rate	Payment Per hour	numeric	12,3					Y	
HoursWorked	Hours worked in a date	numeric	12,3					Y	
Base Pay	Calculated Value [HourlyRate * HoursWorked]	numeric	25,6					Y	

Table: **Salary Worker**

Column Name	Description	Data Type	Size	Indentity	Unique	Default	Check	Allow Nulls	Index
EmployeeID	FK, Links back to the Employee Table	int							Y
Salary	Payment received by Salary worker	money					>0		

Table: **Sales Rep**

Column Name	Description	Data Type	Size	Indentity	Unique	Default	Check	Allow Nulls	Index
EmployeeID	CPK, Links back to the Employee Table	int							Y
SaleNumber	CPK, Links to Order table to track order & customer	int							Y
Commisson Rate	Commission a Sales Rep make off of customers	decimal	12,3					Y	
Sales Unit	Sales Made	decimal	12,3					Y	
BasePay	How much Employee Makes	decimal	25,6					Y	

Table: **Assignment**

Column Name	Description	Data Type	Size	Indentity	Unique	Default	Check	Allow Nulls	Index
EmployeeID	CPK, Links back to the Employee Table	int							Y
CustomerNumber	CPK, Links back to the Customer Table	int							Y

Table: **Customer**

Column Name	Description	Data Type	Size	Indentity	Unique	Default	Check	Allow Nulls	Index
CustomerNumber	PK; Unique Sequential Customer Number	int		Y					Y
First Name	Customer first name	nvarchar	20						
Last Name	Customerlast name	nvarchar	20						
Street	Customer street residence	nvarchar	30						
City	CustomerCity residence	nvarchar	25						
State	Customer State Residence	char	2				LIKE '[A-Z][A-Z]'		
Zip	Customer Zip code	char	5				LIKE '[0-9][0-9][0-9][0-9][0-9]'		
Phone Number	Customer Phone Number	char	14		Y		LIKE '[0-9][0-9][0-9][0-9][0-9][0 -9]-[0-9][0-9][0-9][0-9]'		

Table: **Order**

Column Name	Description	Data Type	Size	Indentity	Unique	Default	Check	Allow Nulls	Index
OrderNumber	PK; Unique Sequential Order number	int		Y					Y
Date of Order	Date order placed	Date							
OrderStatus	Status of order	varchar	15						
CustomerNumber	FK; links back to the customer table	int							Y

Table: **Order Line**

Column Name	Description	Data Type	Size	Indentity	Unique	Default	Check	Allow Nulls	Index
OrderNumber	CPK; FK to Order Table	int							Y
ProductNumber	CPK; FK to Product Table	int							Y
Quantity Ordered	Amount Ordered	int							
Quantity Supplied	Amount Supplied	int							
Order Price	Cost of order	Money							Y

Table: **Product**

Column Name	Description	Data Type	Size	Indentity	Unique	Default	Check	Allow Nulls	Index
ProductNumber	PK; Unique Sequential product Numbe	int		Y					Y
Description	Description of product	nvarchar	50						
List Price	Cost of Product listed	money					>0		
Quantity Available	Product on hand	int							

Table: **Inventory**

Column Name	Description	Data Type	Size	Indentity	Unique	Default	Check	Allow Nulls	Index
ProductNumber	CPK; FK that links back to the product	int							Y
CompanyID	CPK; FK that links back to the Compa	int							Y
Date of Order	Date of ordered placed from supplier	Date							
Number of Units	Unit count ordered	int							

Table: **Supplier**

Column Name	Description	Data Type	Size	Indentity	Unique	Default	Check	Allow Nulls	Index
CompanyID	PK; Unique Company Name	int	20	Y					Y
Street	Supplier street residence	nvarchar	30						
City	Supplier City residence	nvarchar	25						
State	Supplier State Residence	char	2				LIKE '[A-Z][A-Z]'		
Zip	Supplier Zip code	char	5				LIKE '[0-9][0-9][0-9][0-9][0-9]'		
Phone Number	Supplier Phone Number	char	14		Y		LIKE '[0-9][0-9][0-9][0-9][0-9][0 -9]-[0-9][0-9][0-9][0-9]'		
CompanyName	Name of Company	nvarchar	20						

Data Diagram

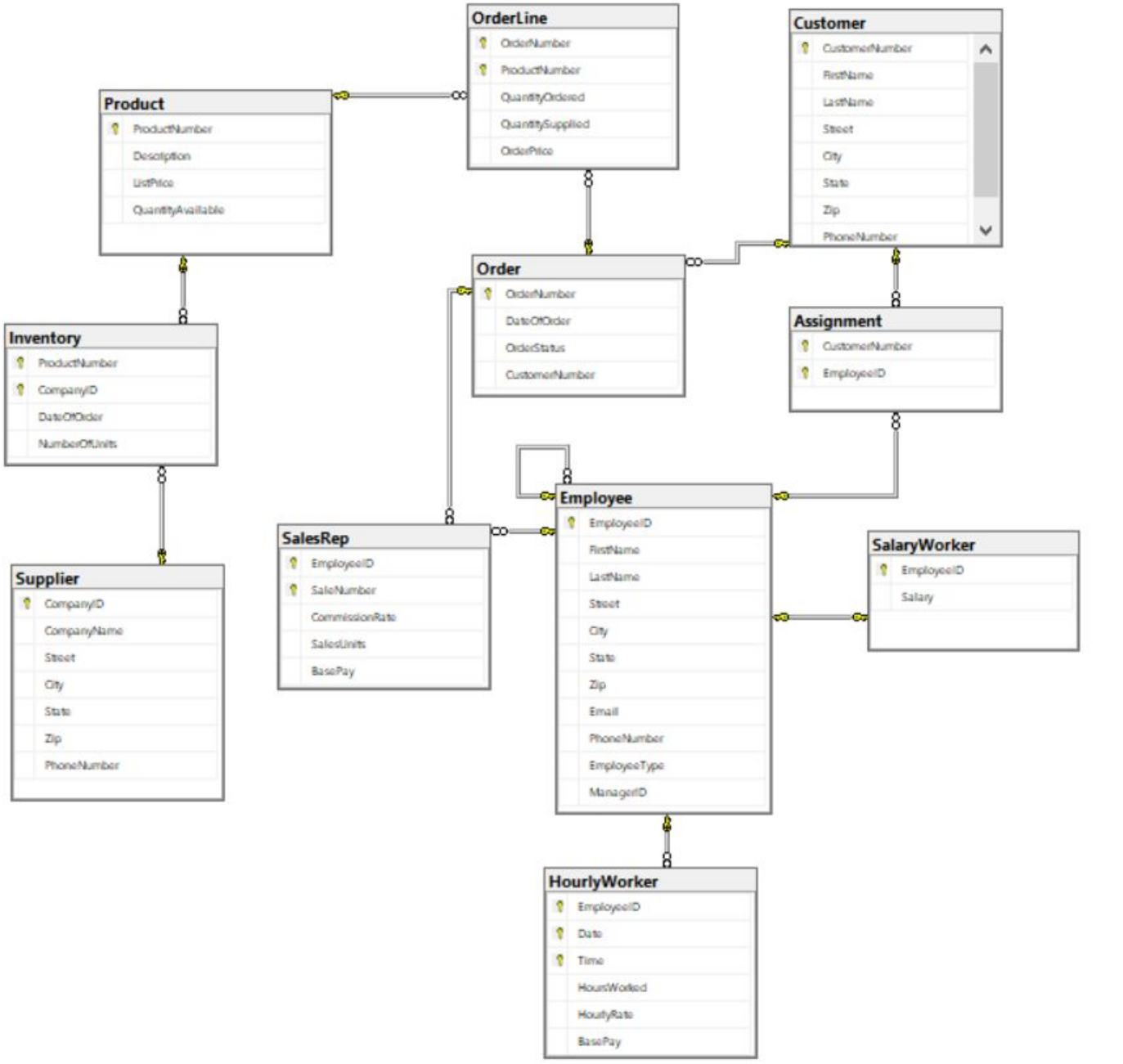
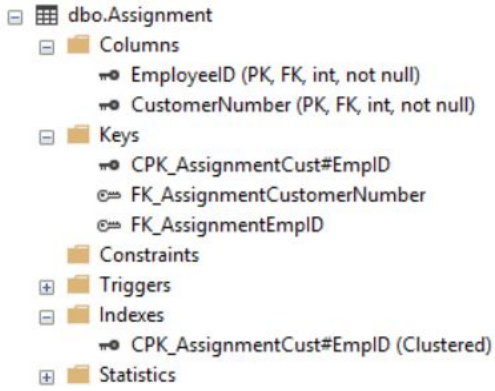
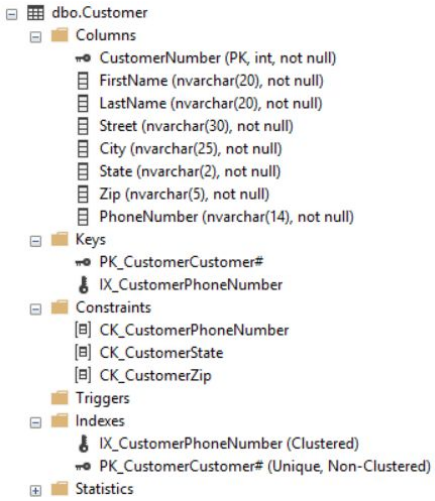


Table Views

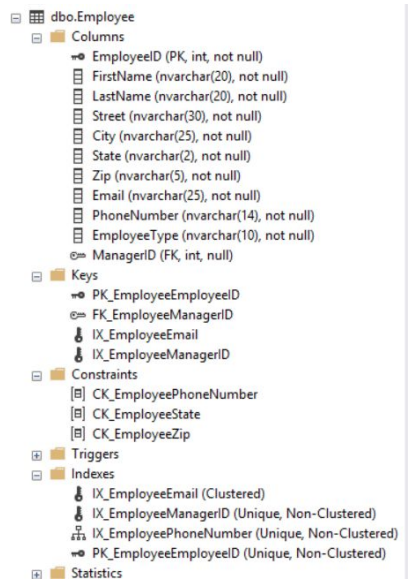
The assignment table is used to track the Employee that is working with the customer. SalesID is the sales rep ID number.



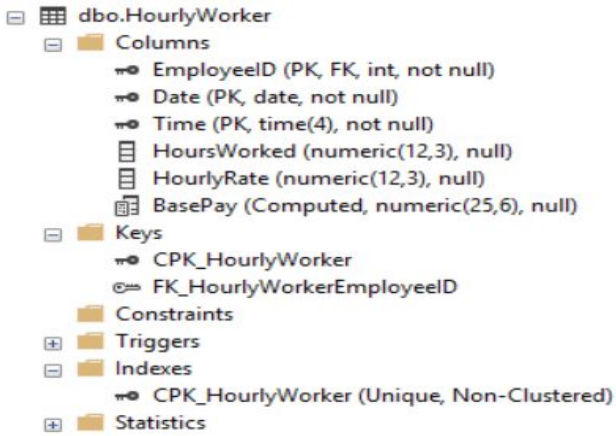
The customer table is used to track information of the customer.



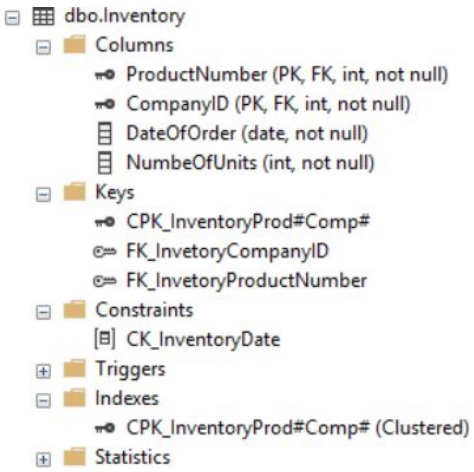
The Employee table tracks Employee information and lists employee type and managerID.



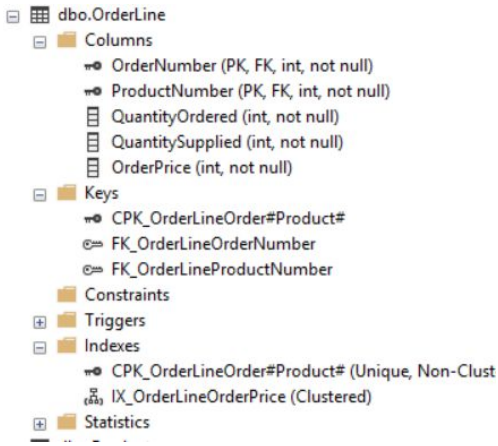
Hourly worker is tracked by an FK EmployeeID and tracks payment.



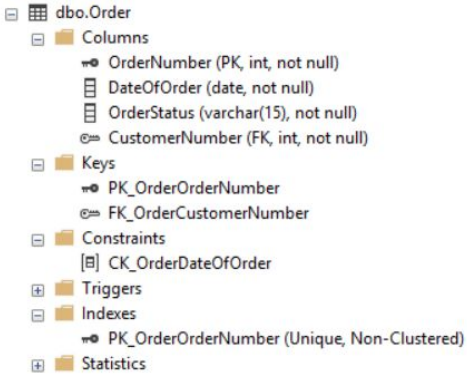
The inventory table is tracked by product number and company ID .



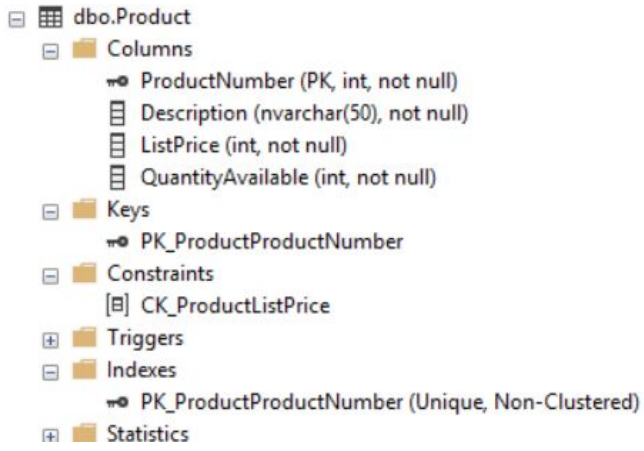
The order Line table is used to tracked Order Number and product Number as well as other info in regards to the order.



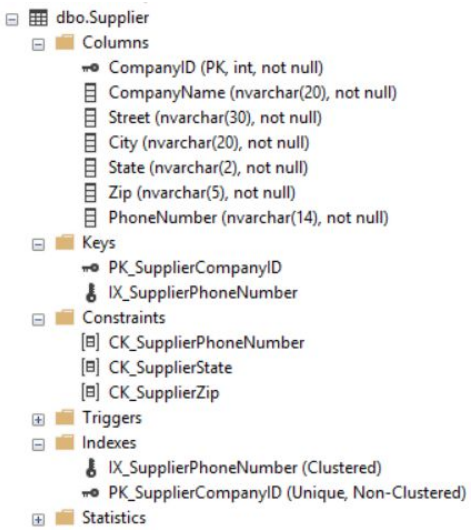
Order tracks Order Number and links to the customer table to track which customer placed the order.



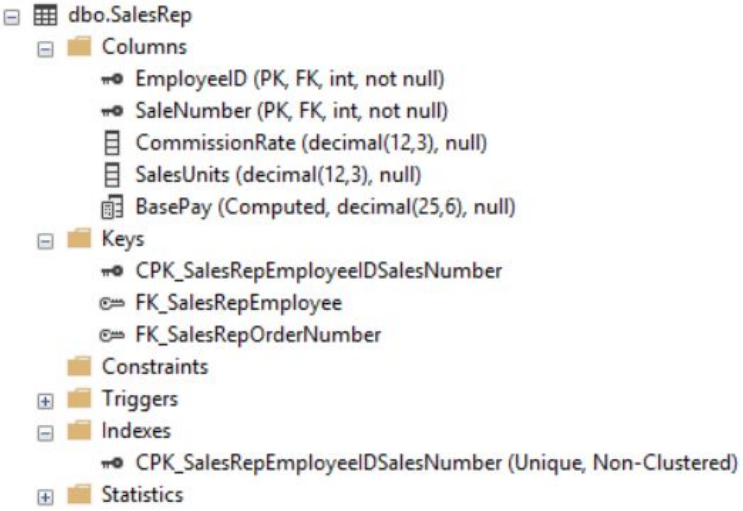
The product table tracks information regarding the product.



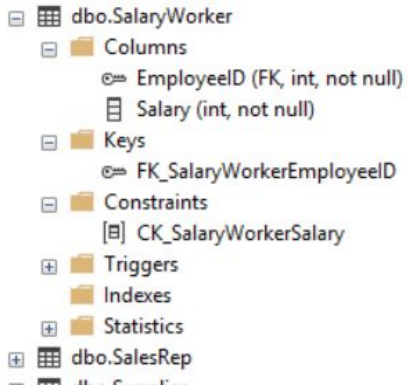
The supplier table is used to track the company that product is being ordered from.



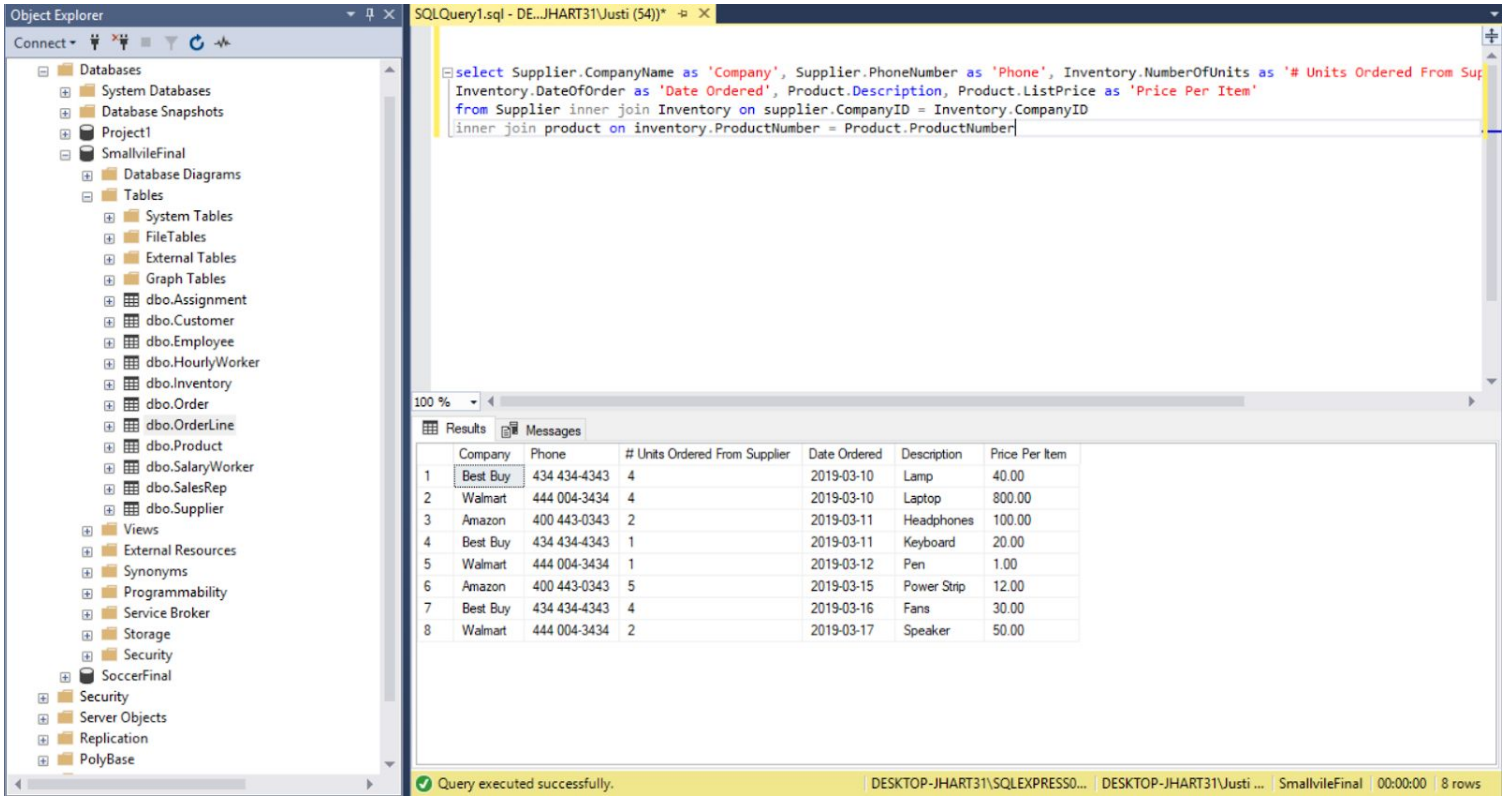
The Sales Rep table tracks sales rep information and pay. Linking back to the employee table

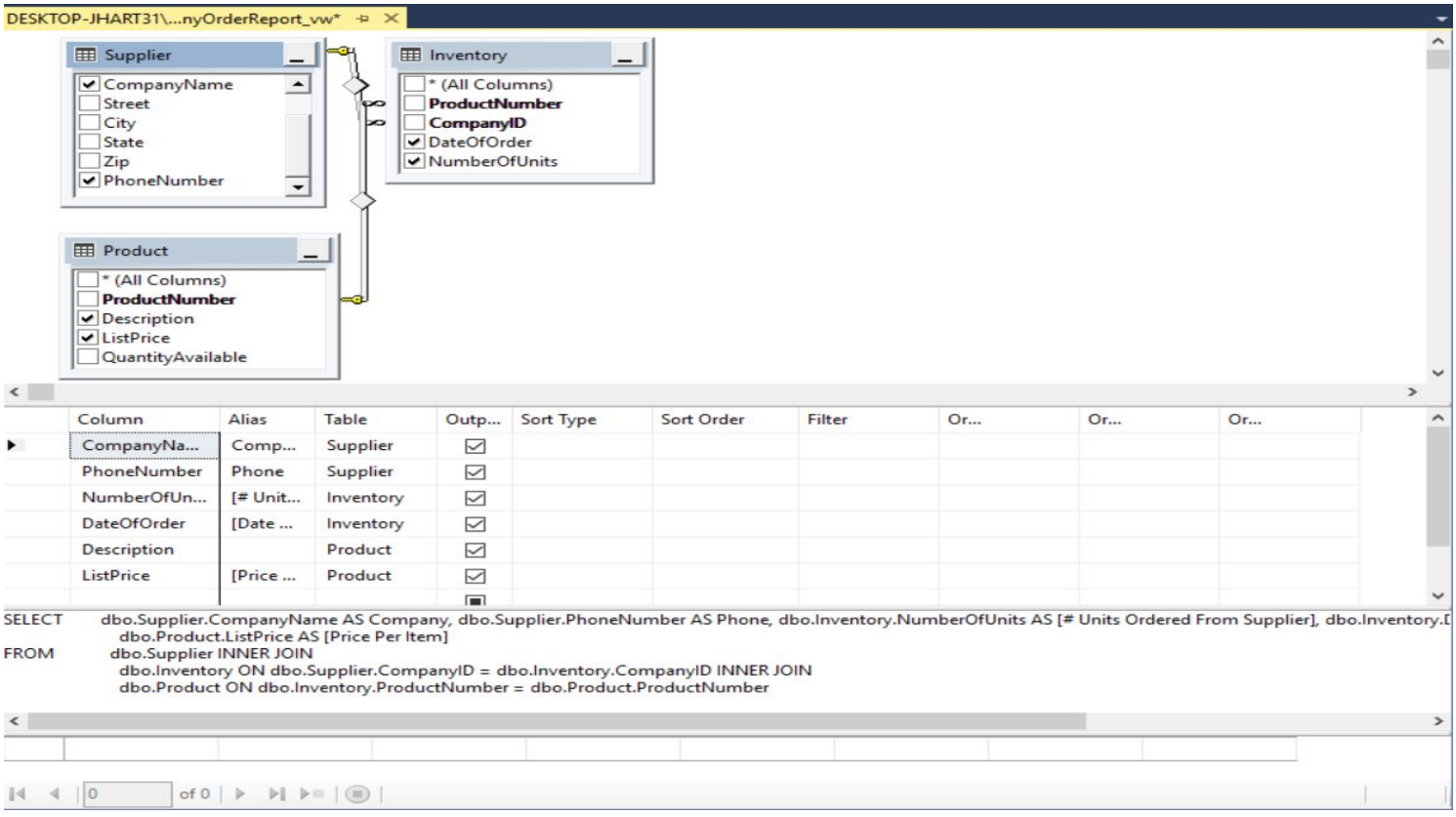


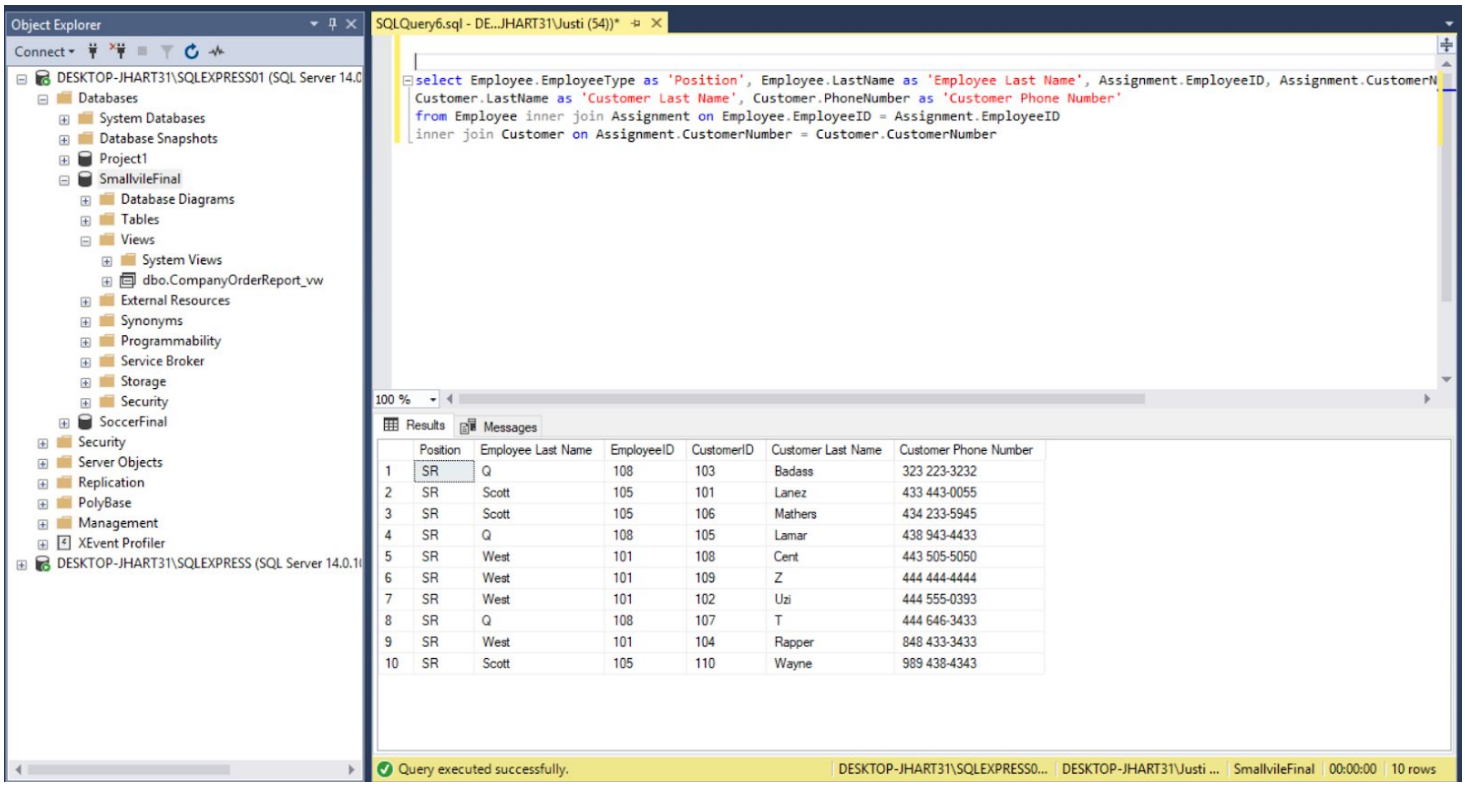
The Salary table tracks the amount made by a salaried employee and links back to the Employee table

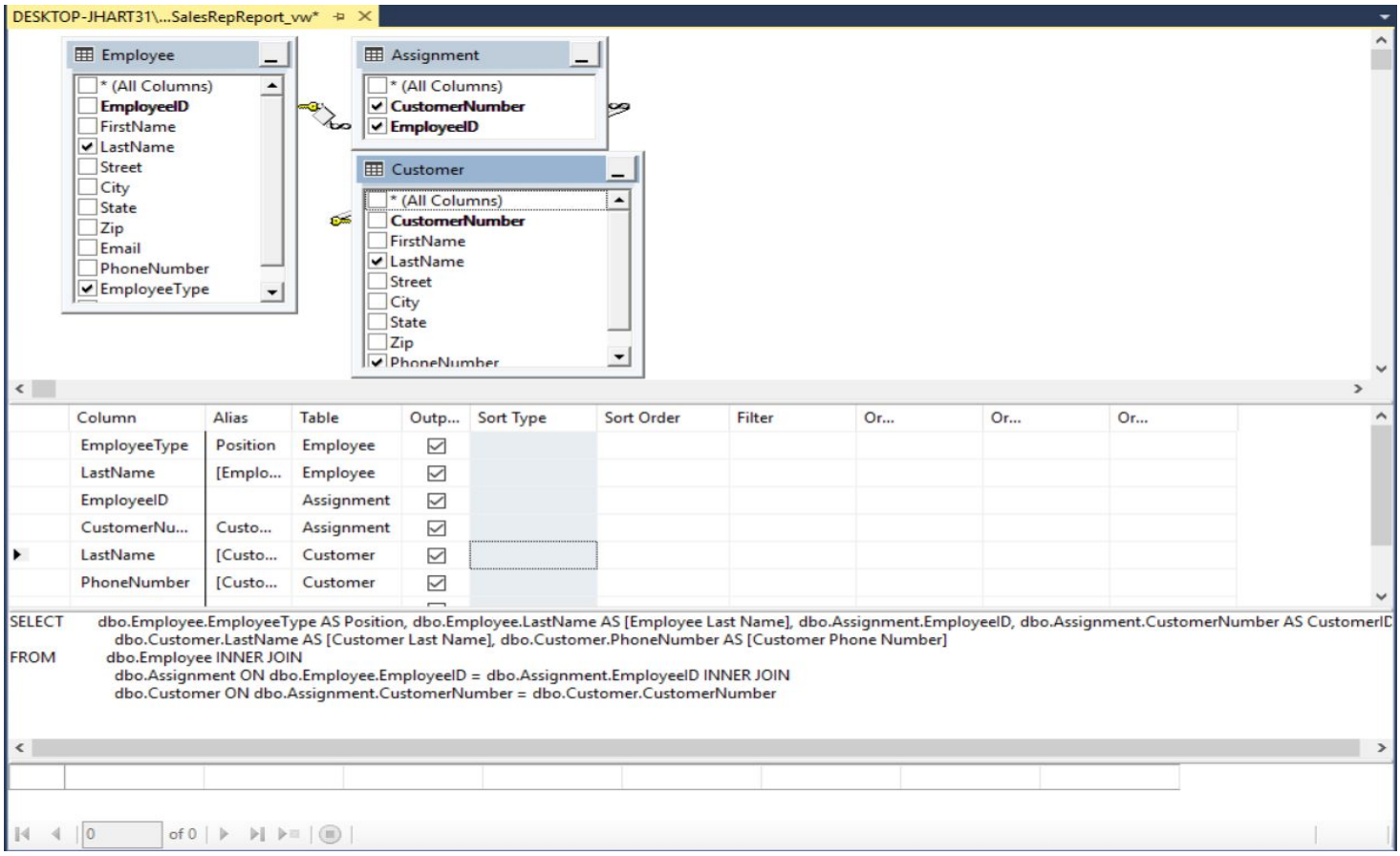


Table_VW


Object Explorer
Connect
Databases
System Databases
Database Snapshots
Project1
SmallvileFinal
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.Assignment
dbo.Customer
dbo.Employee
dbo.HourlyWorker
dbo.Inventory
dbo.Order
dbo.OrderLine
dbo.Product
dbo.SalaryWorker
dbo.SalesRep
dbo.Supplier
Views
External Resources
Synonyms
Programmability
Service Broker
Storage
Security
SoccerFinal
Security
Server Objects
Replication
PolyBase
SQLQuery1.sql - DE...JHART31\Justi (54))*
select Supplier.CompanyName as 'Company', Supplier.PhoneNumber as 'Phone', Inventory.NumberOfUnits as '# Units Ordered From Sup
Inventory.DateOfOrder as 'Date Ordered', Product.Description, Product.ListPrice as 'Price Per Item'
from Supplier inner join Inventory on supplier.CompanyID = Inventory.CompanyID
inner join product on inventory.ProductNumber = Product.ProductNumber
100 %
Results
Messages
Company | Phone | # Units Ordered From Supplier | Date Ordered | Description | Price Per Item
1 Best Buy | 434 434-4343 | 4 | 2019-03-10 | Lamp | 40.00
2 Walmart | 444 004-3434 | 4 | 2019-03-10 | Laptop | 800.00
3 Amazon | 400 443-0343 | 2 | 2019-03-11 | Headphones | 100.00
4 Best Buy | 434 434-4343 | 1 | 2019-03-11 | Keyboard | 20.00
5 Walmart | 444 004-3434 | 1 | 2019-03-12 | Pen | 1.00
6 Amazon | 400 443-0343 | 5 | 2019-03-15 | Power Strip | 12.00
7 Best Buy | 434 434-4343 | 4 | 2019-03-16 | Fans | 30.00
8 Walmart | 444 004-3434 | 2 | 2019-03-17 | Speaker | 50.00
Query executed successfully.
DESKTOP-JHART31\SQLEXPRESS0...
DESKTOP-JHART31\Justi ...
SmallvileFinal
00:00:00
8 rows


DESKTOP-JHART31\...nyOrderReport_vw*
Supplier
CompanyName
Street
City
State
Zip
PhoneNumber
Inventory
* (All Columns)
ProductNumber
CompanyID
DateOfOrder
NumberOfUnits
Product
* (All Columns)
ProductNumber
Description
ListPrice
QuantityAvailable
Column | Alias | Table | Outp... | Sort Type | Sort Order | Filter | Or... | Or... | Or...
CompanyNa... | Comp... | Supplier
PhoneNumber | Phone | Supplier
NumberOfUn... | [# Unit... | Inventory
DateOfOrder | [Date ... | Inventory
Description | | Product
ListPrice | [Price ... | Product
SELECT dbo.Supplier.CompanyName AS Company, dbo.Supplier.PhoneNumber AS Phone, dbo.Inventory.NumberOfUnits AS [# Units Ordered From Supplier], dbo.Inventory.D
dbo.Product.ListPrice AS [Price Per Item]
FROM dbo.Supplier INNER JOIN
dbo.Inventory ON dbo.Supplier.CompanyID = dbo.Inventory.CompanyID INNER JOIN
dbo.Product ON dbo.Inventory.ProductNumber = dbo.Product.ProductNumber
0
of 0


Object Explorer
Connect
DESKTOP-JHART31\SQLEXPRESS01 (SQL Server 14.0
Databases
System Databases
Database Snapshots
Project1
SmallvileFinal
Database Diagrams
Tables
Views
System Views
dbo.CompanyOrderReport_vw
External Resources
Synonyms
Programmability
Service Broker
Storage
Security
SoccerFinal
Security
Server Objects
Replication
PolyBase
Management
XEvent Profiler
DESKTOP-JHART31\SQLEXPRESS (SQL Server 14.0.1
SQLQuery6.sql - DE...JHART31\Justi (54))*
select Employee.EmployeeType as 'Position', Employee.LastName as 'Employee Last Name', Assignment.EmployeeID, Assignment.CustomerN
Customer.LastName as 'Customer Last Name', Customer.PhoneNumber as 'Customer Phone Number'
from Employee inner join Assignment on Employee.EmployeeID = Assignment.EmployeeID
inner join Customer on Assignment.CustomerNumber = Customer.CustomerNumber
100 %
Results
Messages
Position Employee Last Name EmployeeID CustomerID Customer Last Name Customer Phone Number
1 SR Q 108 103 Badass 323 223-3232
2 SR Scott 105 101 Lanez 433 443-0055
3 SR Scott 105 106 Mathers 434 233-5945
4 SR Q 108 105 Lamar 438 943-4433
5 SR West 101 108 Cent 443 505-5050
6 SR West 101 109 Z 444 444-4444
7 SR West 101 102 Uzi 444 555-0393
8 SR Q 108 107 T 444 646-3433
9 SR West 101 104 Rapper 848 433-3433
10 SR Scott 105 110 Wayne 989 438-4343
Query executed successfully.
DESKTOP-JHART31\SQLEXPRESS0...
DESKTOP-JHART31\Justi ...
SmallvileFinal
00:00:00
10 rows


DESKTOP-JHART31\...SalesRepReport_vw*
Employee
* (All Columns)
EmployeeID
FirstName
LastName
Street
City
State
Zip
Email
PhoneNumber
EmployeeType
Assignment
* (All Columns)
CustomerNumber
EmployeeID
Customer
* (All Columns)
CustomerNumber
FirstName
LastName
Street
City
State
Zip
PhoneNumber
Column Alias Table Outp... Sort Type Sort Order Filter Or... Or... Or...
EmployeeType Position Employee
LastName [Emplo... Employee
EmployeeID Assignment
CustomerNu... Custo... Assignment
LastName [Custo... Customer
PhoneNumber [Custo... Customer
SELECT dbo.Employee.EmployeeType AS Position, dbo.Employee.LastName AS [Employee Last Name], dbo.Assignment.EmployeeID, dbo.Assignment.CustomerNumber AS CustomerID
dbo.Customer.LastName AS [Customer Last Name], dbo.Customer.PhoneNumber AS [Customer Phone Number]
FROM dbo.Employee INNER JOIN
dbo.Assignment ON dbo.Employee.EmployeeID = dbo.Assignment.EmployeeID INNER JOIN
dbo.Customer ON dbo.Assignment.CustomerNumber = dbo.Customer.CustomerNumber
0
of 0

SPROCS

SQLQuery7.sql - DE...JHART31\Justi (54))* | SQLQuery10.sql - D...JHART31\Justi (56))*

```
create proc MaxCompSR
as
begin
select Employee.EmployeeType as 'Position', Employee.LastName as 'Employee Last Name', Assignment.CustomerNumber as 'Cust#',
Assignment.EmployeeID as 'EmployeeID', Customer.PhoneNumber as 'Customer Phone#', Customer.LastName as 'Customer Last Name'
from Employee inner join Assignment
on Employee.EmployeeID = Assignment.EmployeeID
inner join Customer on Assignment.CustomerNumber = Customer.CustomerNumber
select MAX(BasePay) as 'Max Comp', EmployeeID, SaleNumber as 'SalesNumber', CommissionRate as 'Commission Rate', SalesUnits 'Sale
from SalesRep
where CommissionRate > 0
group by BasePay, EmployeeID, SaleNumber, CommissionRate, SalesUnits
order by BasePay DESC
end;
```

100 %

Results | Messages

	Position	Employee Last Name	Cust#	EmployeeID	Customer Phone#	Customer Last Name
1	SR	Q	103	108	323 223-3232	Badass
2	SR	Scott	101	105	433 443-0055	Lanez
3	SR	Scott	106	105	434 233-5945	Mathers
4	SR	Q	105	108	438 943-4433	Lamar
5	SR	West	108	101	443 505-5050	Cent
6	SR	West	109	101	444 444-4444	Z
7	SR	West	102	101	444 555-0393	Uzi
8	SR	Q	107	108	444 646-3433	T
9	SR	West	104	101	848 433-3433	Rapper
10	SR	Scott	110	105	989 438-4343	Wayne

	Max Comp	EmployeeID	SalesNumber	Commission Rate	Sales Units
1	720.000000	101	102	60.000	12.000
2	600.000000	108	107	50.000	12.000
3	480.000000	101	108	40.000	12.000
4	360.000000	105	106	40.000	9.000
5	240.000000	108	105	30.000	8.000
6	240.000000	105	101	40.000	6.000
7	150.000000	101	104	30.000	5.000

Query executed successfully. | DESKTOP-JHART31\SQLEXPRESS0... | DESKTOP-JHART31\Justi ... | SmallvileFinal | 00:00:00 | 20 rows

Object Explorer

Connect

- DESKTOP-JHART31\SQLEXPRESS01 (SQL Server 14.0.
  - Databases
    - System Databases
    - Database Snapshots
    - Project1
    - SmallvileFinal
      - Database Diagrams
      - Tables
      - Views
      - External Resources
      - Synonyms
      - Programmability
        - Stored Procedures
          - System Stored Procedures
          - dbo.MaxCompSR
        - Functions
        - Database Triggers
        - Assemblies
        - Types
        - Rules
        - Defaults
        - Sequences
      - Service Broker
      - Storage
      - Security
    - SoccerFinal
  - Security
  - Server Objects
  - Replication
  - PolyBase
  - Management
  - XEvent Profiler
- DESKTOP-JHART31\SQLEXPRESS (SQL Server 14.0.10

SQLQuery12.sql - D...JHART31\Justi (57)) | SQLQuery7.sql - DE...JHART31\Justi (54))* | SQLQuery10.sql - D...JHART31\Justi (56))*

```
USE [SmallvileFinal]
GO

/****** Object:  StoredProcedure [dbo].[MaxCompSR]    Script Date: 4/24/2019 4:17:38 PM ******/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

create proc [dbo].[MaxCompSR]
as
begin
select Employee.EmployeeType as 'Position', Employee.LastName as 'Employee Last Name', Assignment.CustomerNumber as 'Cust#',
Assignment.EmployeeID as 'EmployeeID', Customer.PhoneNumber as 'Customer Phone#', Customer.LastName as 'Customer Last Name'
from Employee inner join Assignment
on Employee.EmployeeID = Assignment.EmployeeID
inner join Customer on Assignment.CustomerNumber = Customer.CustomerNumber
select MAX(BasePay) as 'Max Comp', EmployeeID, SaleNumber as 'SalesNumber', CommissionRate as 'Commission Rate', SalesUnits 'Sale
from SalesRep
where CommissionRate > 0
group by BasePay, EmployeeID, SaleNumber, CommissionRate, SalesUnits
order by BasePay DESC
end;
GO
```

100 %

Connected. (1/1) | DESKTOP-JHART31\SQLEXPRESS0... | DESKTOP-JHART31\Justi ... | SmallvileFinal | 00:00:00 | 0 rows

SQLQuery13.sql - D...JHART31\Justi (56))*

```
select Supplier.CompanyName as 'Company', Supplier.PhoneNumber as 'Phone', Inventory.NumberOfUnits as '# Units Ordered From Suppl
Inventory.DateOfOrder as 'Date Ordered', Product.Description, Product.ListPrice as 'Price Per Item'
from Supplier inner join Inventory on supplier.CompanyID = Inventory.CompanyID
inner join product on inventory.ProductNumber = Product.ProductNumber
select MIN(ListPrice) as 'Price', Description as 'Items'
from Product
where QuantityAvailable > 0
group by ListPrice, Description
order by ListPrice ASC
```

100 %

Results | Messages

	Company	Phone	# Units Ordered From Supplier	Date Ordered	Description	Price Per Item
1	Best Buy	434 434-4343	4	2019-03-10	Lamp	40.00
2	Walmart	444 004-3434	4	2019-03-10	Laptop	800.00
3	Amazon	400 443-0343	2	2019-03-11	Headphones	100.00
4	Best Buy	434 434-4343	1	2019-03-11	Keyboard	20.00
5	Walmart	444 004-3434	1	2019-03-12	Pen	1.00
6	Amazon	400 443-0343	5	2019-03-15	Power Strip	12.00
7	Best Buy	434 434-4343	4	2019-03-16	Fans	30.00
8	Walmart	444 004-3434	2	2019-03-17	Speaker	50.00

	Price	Items
1	1.00	Pen
2	12.00	Power Strip
3	20.00	Keyboard
4	30.00	Fans
5	40.00	Lamp
6	50.00	Speaker
7	100.00	Headphones
8	800.00	Laptop

Query executed successfully. | DESKTOP-JHART31\SQLEXPRESS0... | DESKTOP-JHART31\Justi ... | SmallvileFinal | 00:00:00 | 16 rows

Object Explorer

Connect

- DESKTOP-JHART31\SQLEXPRESS01 (SQL Server 14.0.
  - Databases
    - System Databases
    - Database Snapshots
    - Project1
    - SmallvileFinal
      - Database Diagrams
      - Tables
      - Views
      - External Resources
      - Synonyms
      - Programmability
        - Stored Procedures
          - System Stored Procedures
          - dbo.CheapestItems
          - dbo.MaxCompSR
        - Functions
        - Database Triggers
        - Assemblies
        - Types
        - Rules
        - Defaults
        - Sequences
      - Service Broker
      - Storage
      - Security
    - SoccerFinal
  - Security
  - Server Objects
  - Replication
  - PolyBase
  - Management
  - XEvent Profiler
- DESKTOP-JHART31\SQLEXPRESS (SQL Server 14.0.10

SQLQuery14.sql - D...JHART31\Justi (57)) | SQLQuery13.sql - D...JHART31\Justi (56))*

```
USE [SmallvileFinal]
GO

/****** Object:  StoredProcedure [dbo].[CheapestItems]    Script Date: 4/24/2019 4:34:09 PM ******/
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

create proc [dbo].[CheapestItems]
as
begin
select Supplier.CompanyName as 'Company', Supplier.PhoneNumber as 'Phone', Inventory.NumberOfUnits as '# Units Ordered From Suppl
Inventory.DateOfOrder as 'Date Ordered', Product.Description, Product.ListPrice as 'Price Per Item'
from Supplier inner join Inventory on supplier.CompanyID = Inventory.CompanyID
inner join product on inventory.ProductNumber = Product.ProductNumber
select MIN(ListPrice) as 'Price', Description as 'Items'
from Product
where QuantityAvailable > 0
group by ListPrice, Description
order by ListPrice ASC
end;
GO
```

100 %

Connected. (1/1) | DESKTOP-JHART31\SQLEXPRESS0... | DESKTOP-JHART31\Justi ... | SmallvileFinal | 00:00:00 | 0 rows

SSRS Reports

OrderHistory

Date Ordered	Company	Phone	ID Units Ordered From Supplier	Description	Price Per Item
10-Mar-19	Best Buy	434 434-4343	4	Lamp	$40.00
	Walmart	444 004-3434	4	Laptop	$800.00
11-Mar-19	Amazon	400 443-0343	2	Headphones	$100.00
	Best Buy	434 434-4343	1	Keyboard	$20.00
12-Mar-19	Walmart	444 004-3434	1	Pen	$1.00
15-Mar-19	Amazon	400 443-0343	5	Power Strip	$12.00
16-Mar-19	Best Buy	434 434-4343	4	Fans	$30.00
17-Mar-19	Walmart	444 004-3434	2	Speaker	$50.00

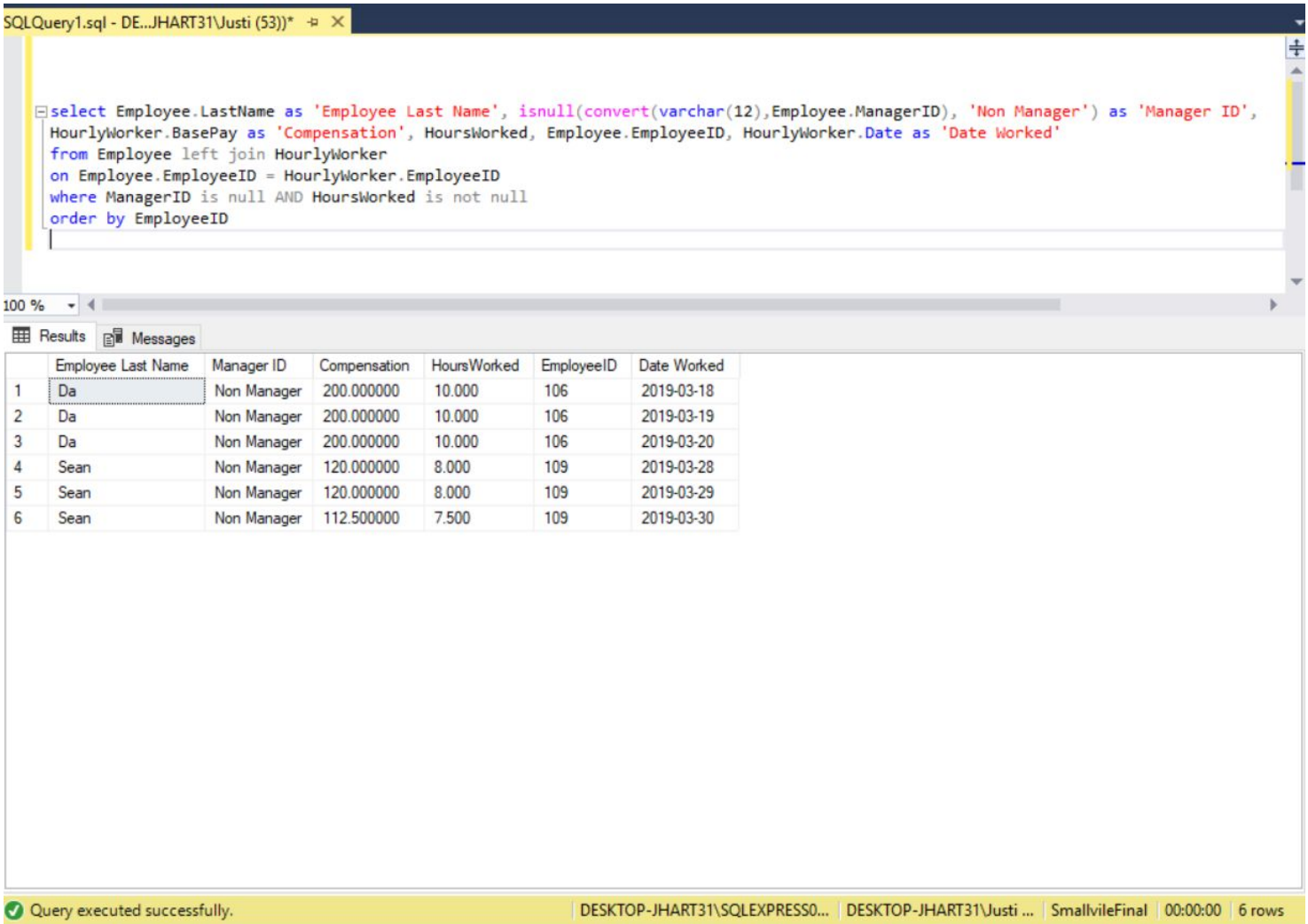
EmployeeCustomer

Employee ID	Employee Last Name	Position	Customer ID	Customer Last Name	Customer Phone Number
108	Q	SR	103	Badass	323 223-3232
105	Scott	SR	101	Lanez	433 443-0055
105	Scott	SR	106	Mathers	434 233-5945
108	Q	SR	105	Lamar	438 943-4433
101	West	SR	108	Cent	443 505-5050
101	West	SR	109	Z	444 444-4444
101	West	SR	102	Uzi	444 555-0393
108	Q	SR	107	T	444 646-3433
101	West	SR	104	Rapper	848 433-3433
105	Scott	SR	110	Wayne	989 438-4343

User Acceptance Query Tests

Question: Show me all hourly workers who are not managers and sort by EmployeeID. I also want to know their compensation, hours worked, and dates worked. Replace ManagerID with 'non manager'.

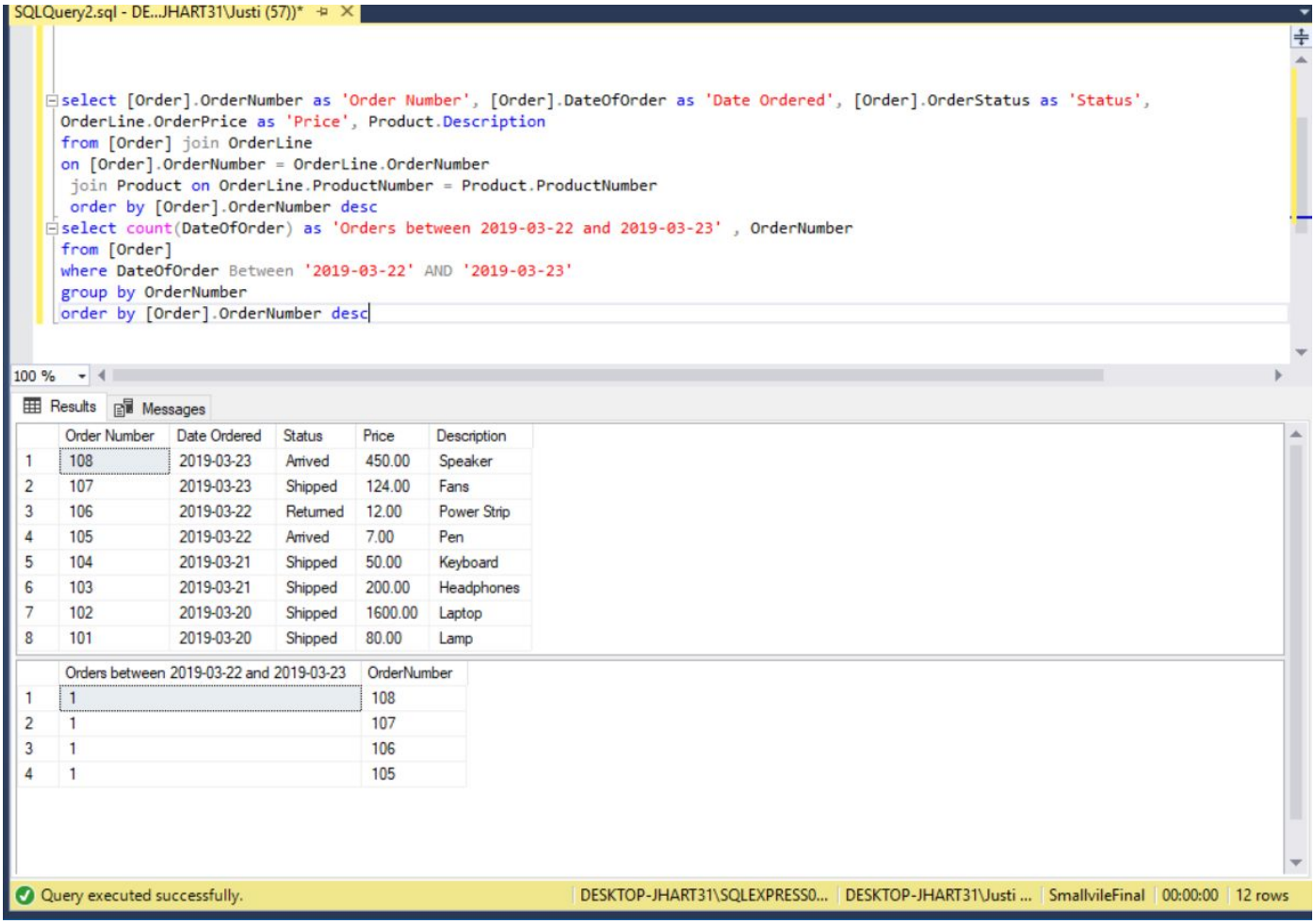
Answer:



	Employee Last Name	Manager ID	Compensation	HoursWorked	EmployeeID	Date Worked
1	Da	Non Manager	200.000000	10.000	106	2019-03-18
2	Da	Non Manager	200.000000	10.000	106	2019-03-19
3	Da	Non Manager	200.000000	10.000	106	2019-03-20
4	Sean	Non Manager	120.000000	8.000	109	2019-03-28
5	Sean	Non Manager	120.000000	8.000	109	2019-03-29
6	Sean	Non Manager	112.500000	7.500	109	2019-03-30

Question: Show me all order numbers, date of orders, status, price and description. I then want a count of how many orders have been placed through 2019-03-22 and 2019-03-23, with the associated order number.

Answer:



Question: Show me all products numbers, order numbers, order price, and the quantity ordered.

From there I was to know the total order price. Lastly, show me the total revenue of all orders.

Answer: