Project 3

Benjamin Wong

CIS 3050

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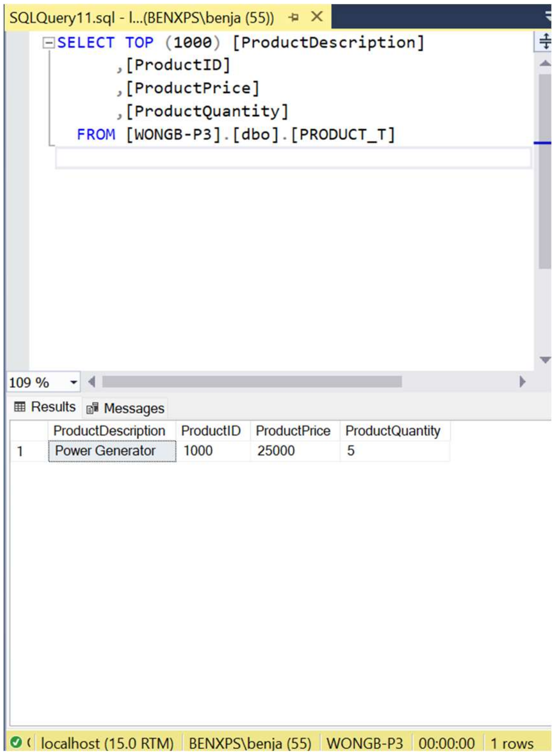
DELIBERABLE 1

PRODUCT_T



```sql
SELECT TOP (1000) [ProductDescription]
      ,[ProductID]
      ,[ProductPrice]
      ,[ProductQuantity]
  FROM [WONGB-P3].[dbo].[PRODUCT_T]
```

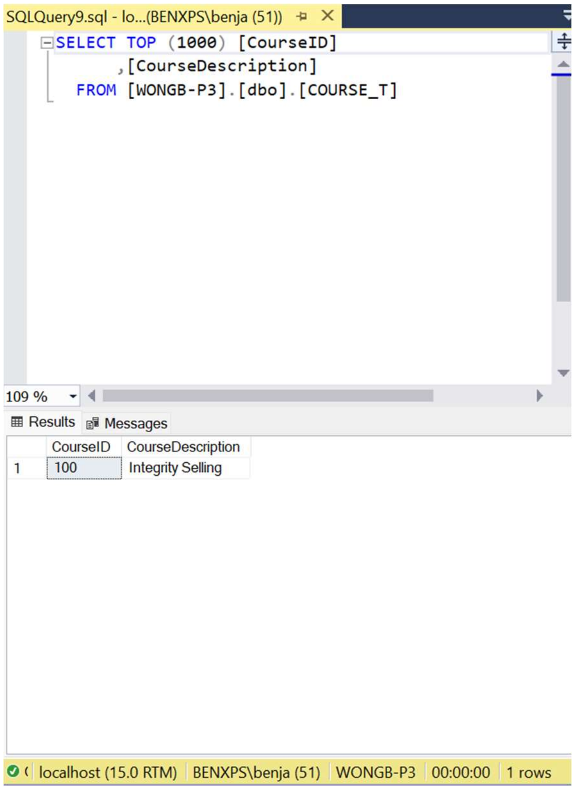
	ProductDescription	ProductID	ProductPrice	ProductQuantity
1	Power Generator	1000	25000	5

```sql
GO

INSERT INTO [WONGB-P3].[dbo].[PRODUCT_T]
       ([ProductDescription],[ProductID],[ProductPrice],[ProductQuantity])
       VALUES
              ('Power Generator', 1000, 25000, 5)

              GO
```

COURSE_T



```
SELECT TOP (1000) [CourseID]
      ,[CourseDescription]
  FROM [WONGB-P3].[dbo].[COURSE_T]
```

	CourseID	CourseDescription
1	100	Integrity Selling

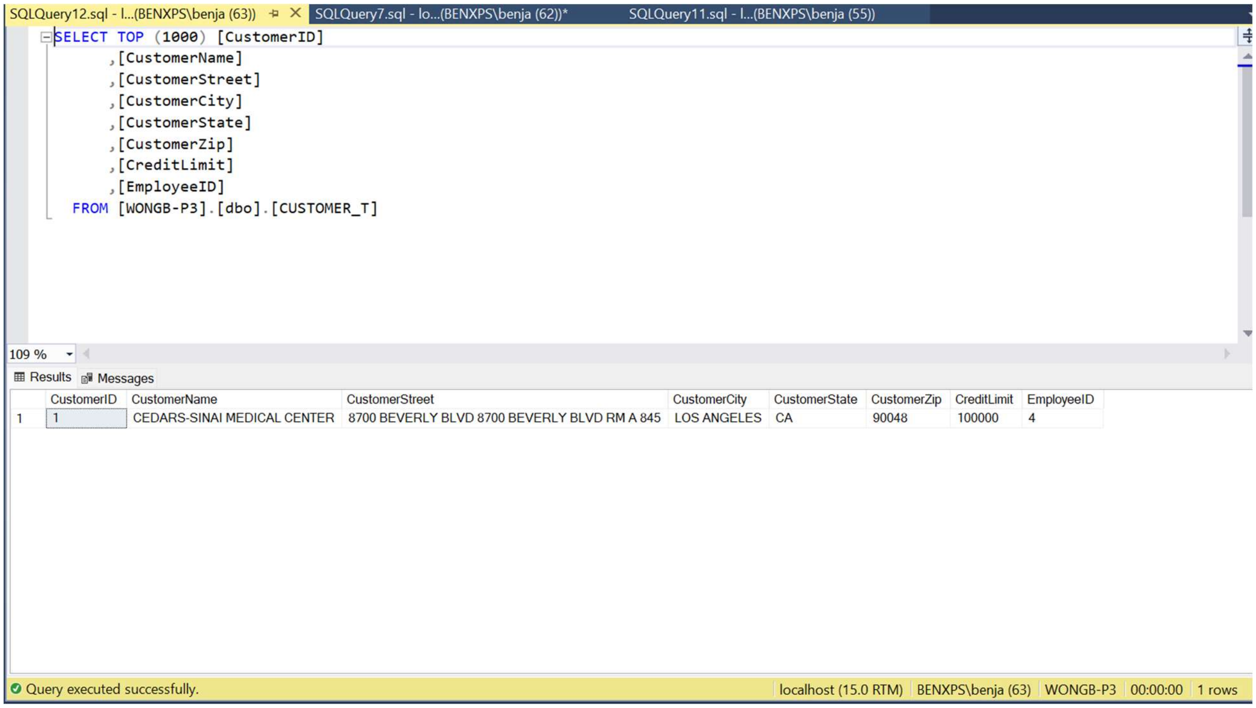
localhost (15.0 RTM) | BENXPS\benja (51) | WONGB-P3 | 00:00:00 | 1 rows

```
GO

INSERT INTO [WONGB-P3].[dbo].[COURSE_T]
       ([CourseDescription], [CourseID])
       VALUES
              ('Integrity Selling', 100)

              GO
```

CUSTOMER_T


SQLQuery12.sql - l...(BENXPS\benja (63))
SQLQuery7.sql - lo...(BENXPS\benja (62))*
SQLQuery11.sql - l...(BENXPS\benja (55))
109 %
Results
Messages

```
SELECT TOP (1000) [CustomerID]
      ,[CustomerName]
      ,[CustomerStreet]
      ,[CustomerCity]
      ,[CustomerState]
      ,[CustomerZip]
      ,[CreditLimit]
      ,[EmployeeID]
  FROM [WONGB-P3].[dbo].[CUSTOMER_T]
```

	CustomerID	CustomerName	CustomerStreet	CustomerCity	CustomerState	CustomerZip	CreditLimit	EmployeeID
1	1	CEDARS-SINAI MEDICAL CENTER	8700 BEVERLY BLVD 8700 BEVERLY BLVD RM A 845	LOS ANGELES	CA	90048	100000	4

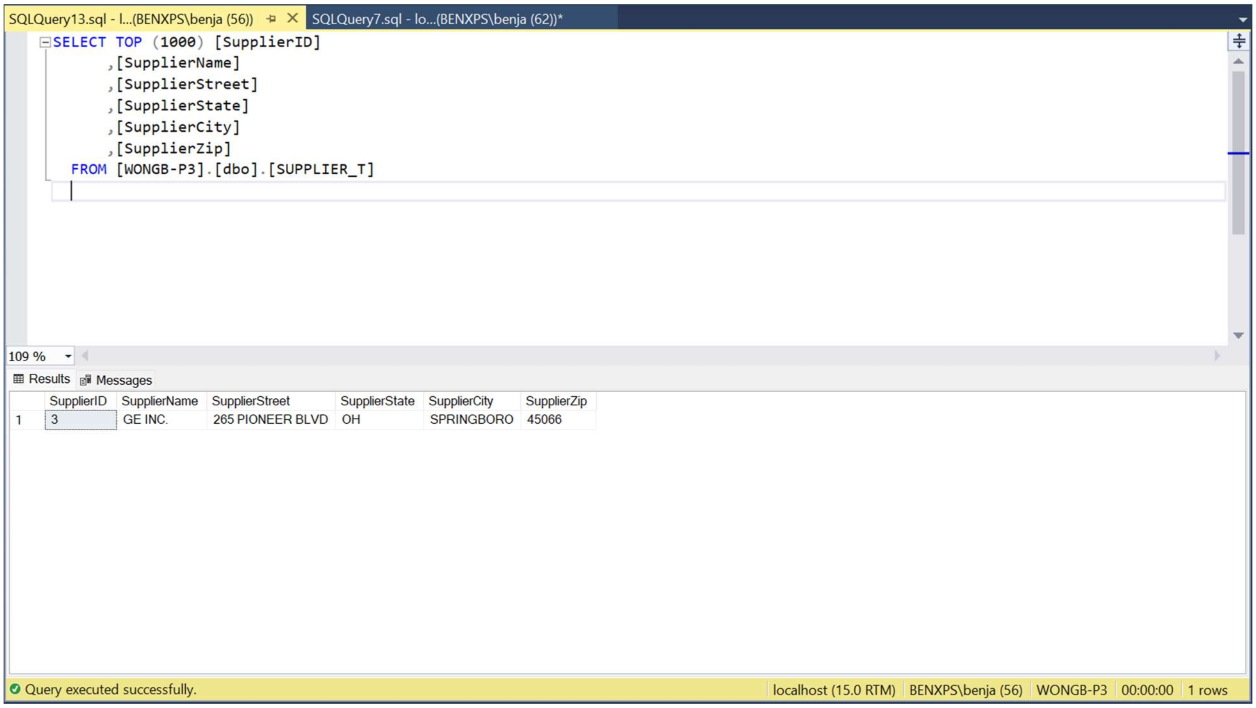
Query executed successfully. | localhost (15.0 RTM) | BENXPS\benja (63) | WONGB-P3 | 00:00:00 | 1 rows

```
GO

INSERT INTO [WONGB-P3].[dbo].[CUSTOMER_T]
       ([CustomerID],[CustomerName],[CustomerStreet],[CustomerCity],
       [CustomerState],[CustomerZip],[CreditLimit],[EmployeeID])
       VALUES
              (1, 'CEDARS-SINAI MEDICAL CENTER', '8700 BEVERLY BLVD 8700 BEVERLY BLVD RM
A 845', 'LOS ANGELES', 'CA', '90048', 100000, 4)

              GO
```

SUPPLIER_T


SQLQuery13.sql - l...(BENXPS\benja (56))
SQLQuery7.sql - lo...(BENXPS\benja (62))*
109 %
Results
Messages

```sql
SELECT TOP (1000) [SupplierID]
      ,[SupplierName]
      ,[SupplierStreet]
      ,[SupplierState]
      ,[SupplierCity]
      ,[SupplierZip]
  FROM [WONGB-P3].[dbo].[SUPPLIER_T]
```

	SupplierID	SupplierName	SupplierStreet	SupplierState	SupplierCity	SupplierZip
1	3	GE INC.	265 PIONEER BLVD	OH	SPRINGBORO	45066

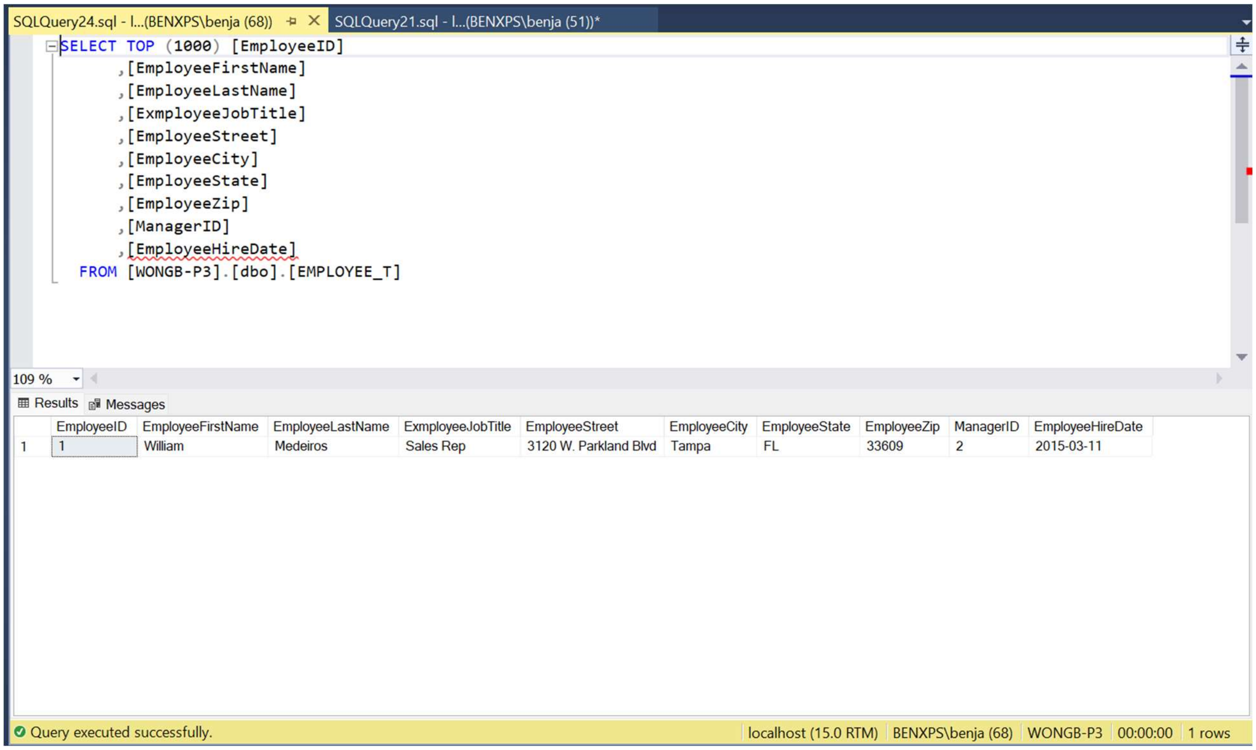
Query executed successfully. | localhost (15.0 RTM) | BENXPS\benja (56) | WONGB-P3 | 00:00:00 | 1 rows

```sql
GO

INSERT INTO [WONGB-P3].[dbo].[SUPPLIER_T]
       ([SupplierID],[SupplierName],[SupplierStreet],
       [SupplierState],[SupplierCity],[SupplierZip])
       VALUES
              (3, 'GE INC.', '265 PIONEER BLVD', 'OH', 'SPRINGBORO', 45066)

              GO
```

EMPLOYEE_T


SQLQuery24.sql - l...(BENXPS\benja (68))
SQLQuery21.sql - l...(BENXPS\benja (51))*
109 %
Results
Messages

```
SELECT TOP (1000) [EmployeeID]
      ,[EmployeeFirstName]
      ,[EmployeeLastName]
      ,[ExmployeeJobTitle]
      ,[EmployeeStreet]
      ,[EmployeeCity]
      ,[EmployeeState]
      ,[EmployeeZip]
      ,[ManagerID]
      ,[EmployeeHireDate]
  FROM [WONGB-P3].[dbo].[EMPLOYEE_T]
```

	EmployeeID	EmployeeFirstName	EmployeeLastName	ExmployeeJobTitle	EmployeeStreet	EmployeeCity	EmployeeState	EmployeeZip	ManagerID	EmployeeHireDate
1	1	William	Medeiros	Sales Rep	3120 W. Parkland Blvd	Tampa	FL	33609	2	2015-03-11

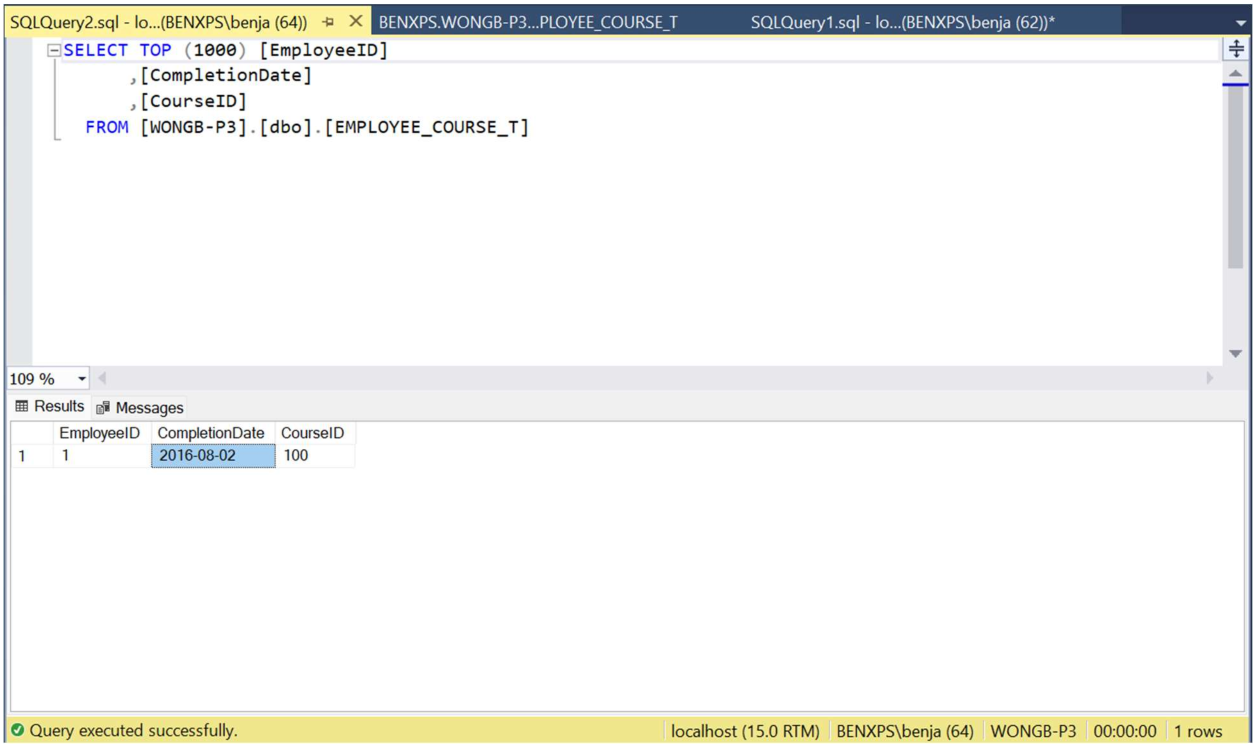
```
Query executed successfully.    localhost (15.0 RTM)  BENXPS\benja (68)  WONGB-P3  00:00:00  1 rows
```

```
GO

INSERT INTO [WONGB-P3].[dbo].[EMPLOYEE_T]
       ([EmployeeID],[EmployeeFirstName],[EmployeeLastName],
       [ExmployeeJobTitle],[EmployeeStreet],[EmployeeCity],
       [EmployeeState],[EmployeeZip],[ManagerID],[EmployeeHireDate])
       VALUES
              (1,'William','Medeiros','Sales Rep', '3120 W. Parkland Blvd', 'Tampa',
'FL', '33609', 2, '2015-03-11')

              GO
```

EMPLOYEE_COURSE_T


SQLQuery2.sql - lo...(BENXPS\benja (64))
BENXPS.WONGB-P3...PLOYEE_COURSE_T
SQLQuery1.sql - lo...(BENXPS\benja (62))*
109 %
Results
Messages

```
SELECT TOP (1000) [EmployeeID]
      ,[CompletionDate]
      ,[CourseID]
  FROM [WONGB-P3].[dbo].[EMPLOYEE_COURSE_T]
```

	EmployeeID	CompletionDate	CourseID
1	1	2016-08-02	100

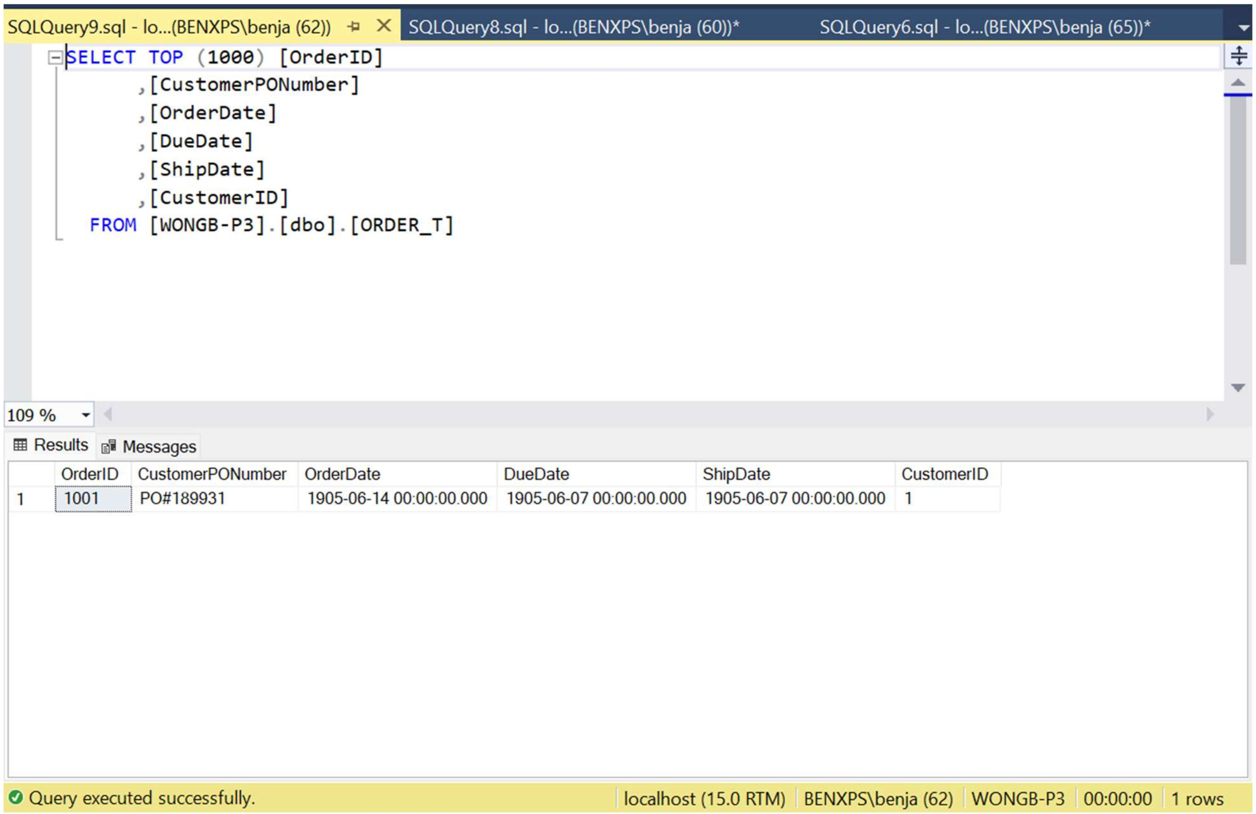
Query executed successfully. | localhost (15.0 RTM) | BENXPS\benja (64) | WONGB-P3 | 00:00:00 | 1 rows

```
GO

INSERT INTO [WONGB-P3].[dbo].[EMPLOYEE_COURSE_T]
       ([EmployeeID],[CourseID],[CompletionDate])
       VALUES
              (1, 100, '2016-08-02')

              GO
```

ORDER_T


SQLQuery9.sql - lo...(BENXPS\benja (62))
SQLQuery8.sql - lo...(BENXPS\benja (60))*
SQLQuery6.sql - lo...(BENXPS\benja (65))*
109 %
Results
Messages

```
SELECT TOP (1000) [OrderID]
      ,[CustomerPONumber]
      ,[OrderDate]
      ,[DueDate]
      ,[ShipDate]
      ,[CustomerID]
  FROM [WONGB-P3].[dbo].[ORDER_T]
```

	OrderID	CustomerPONumber	OrderDate	DueDate	ShipDate	CustomerID
1	1001	PO#189931	1905-06-14 00:00:00.000	1905-06-07 00:00:00.000	1905-06-07 00:00:00.000	1

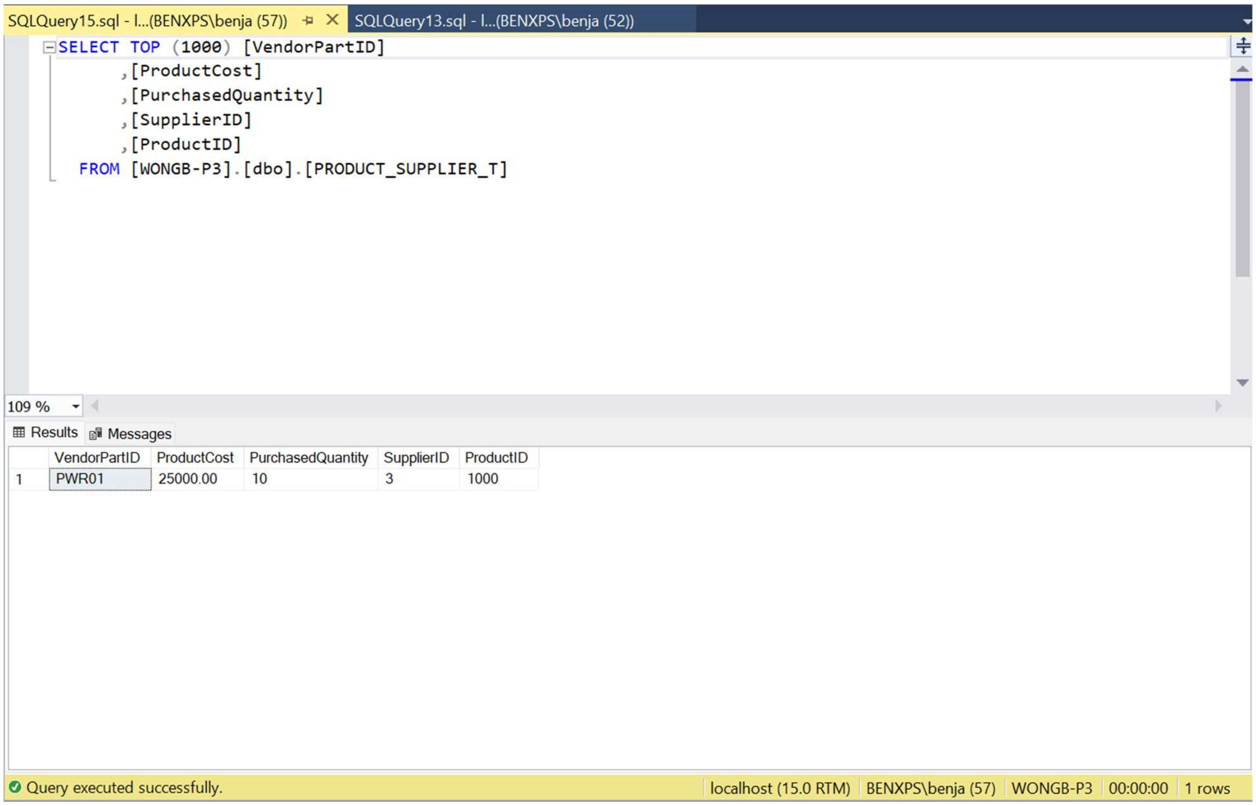
Query executed successfully. | localhost (15.0 RTM) | BENXPS\benja (62) | WONGB-P3 | 00:00:00 | 1 rows

```
GO

INSERT INTO [WONGB-P3].[dbo].[ORDER_T]
        ([OrderID],[CustomerPONumber],[OrderDate],[DueDate],[ShipDate],[CustomerID])
        VALUES
                (1001, 'PO#189931', 2018-10-18, 2018-10-25, 2018-10-25, 1)

                GO
```

PRODUCT_SUPPLIER_T


SQLQuery15.sql - l...(BENXPS\benja (57))
SQLQuery13.sql - l...(BENXPS\benja (52))
109 %
Results
Messages

```
SELECT TOP (1000) [VendorPartID]
      ,[ProductCost]
      ,[PurchasedQuantity]
      ,[SupplierID]
      ,[ProductID]
  FROM [WONGB-P3].[dbo].[PRODUCT_SUPPLIER_T]
```

	VendorPartID	ProductCost	PurchasedQuantity	SupplierID	ProductID
1	PWR01	25000.00	10	3	1000

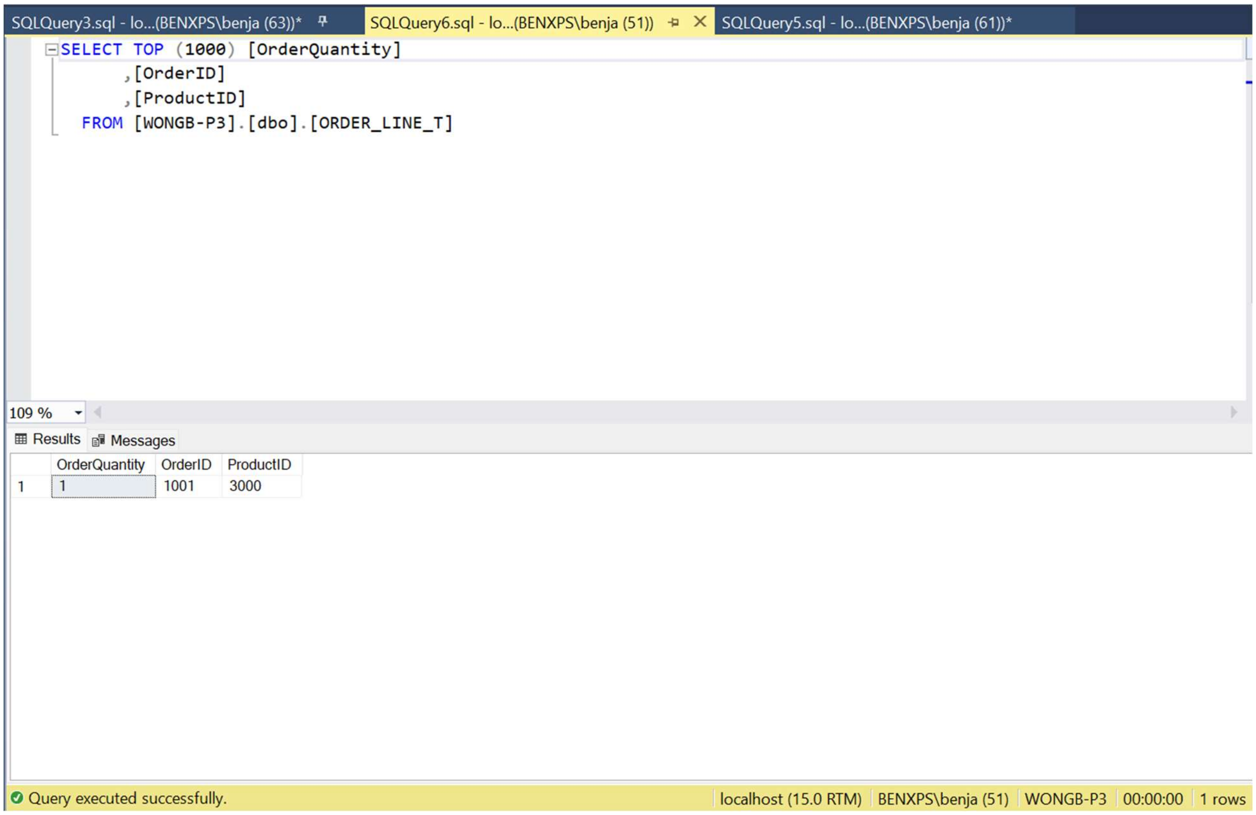
Query executed successfully. | localhost (15.0 RTM) | BENXPS\benja (57) | WONGB-P3 | 00:00:00 | 1 rows

```
GO

INSERT INTO [WONGB-P3].[dbo].[PRODUCT_SUPPLIER_T]
       ([VendorPartID],[ProductCost],[PurchasedQuantity],[SupplierID],[ProductID])
       VALUES
              ('PWR01', 25000, 10, 3, 1000)

              GO
```

ORDER_LINE_T



SQLQuery3.sql - lo...(BENXPS\benja (63))*
SQLQuery6.sql - lo...(BENXPS\benja (51))
SQLQuery5.sql - lo...(BENXPS\benja (61))*
109 %
Results
Messages

```
SELECT TOP (1000) [OrderQuantity]
      ,[OrderID]
      ,[ProductID]
  FROM [WONGB-P3].[dbo].[ORDER_LINE_T]
```

	OrderQuantity	OrderID	ProductID
1	1	1001	3000

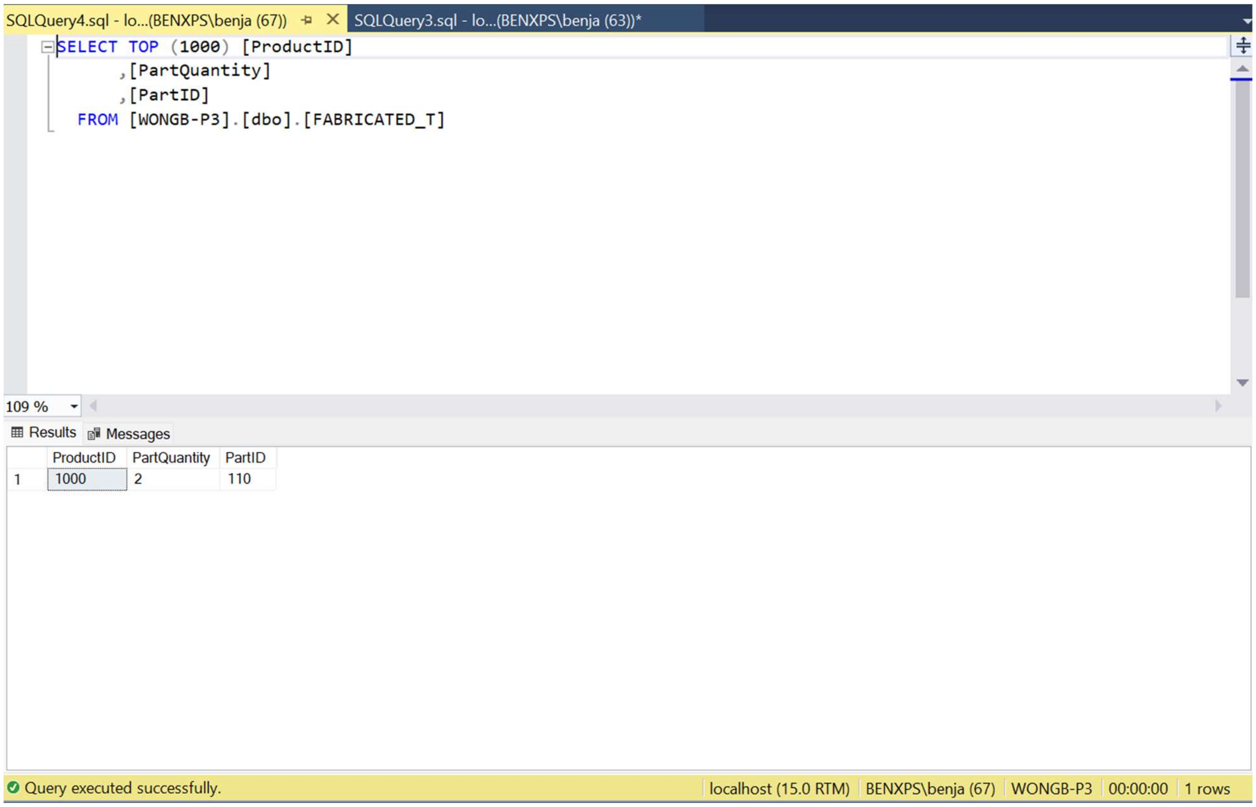
Query executed successfully. localhost (15.0 RTM) BENXPS\benja (51) WONGB-P3 00:00:00 1 rows

```
GO

INSERT INTO [WONGB-P3].[dbo].[ORDER_LINE_T]
        ([OrderQuantity],[OrderID],[ProductID])
        VALUES
                (1,1001,3000)

                GO
```

FABRICATED_T


SQLQuery4.sql - lo...(BENXPS\benja (67))
SQLQuery3.sql - lo...(BENXPS\benja (63))*
109 %
Results
Messages

```
SELECT TOP (1000) [ProductID]
      ,[PartQuantity]
      ,[PartID]
  FROM [WONGB-P3].[dbo].[FABRICATED_T]
```

	ProductID	PartQuantity	PartID
1	1000	2	110

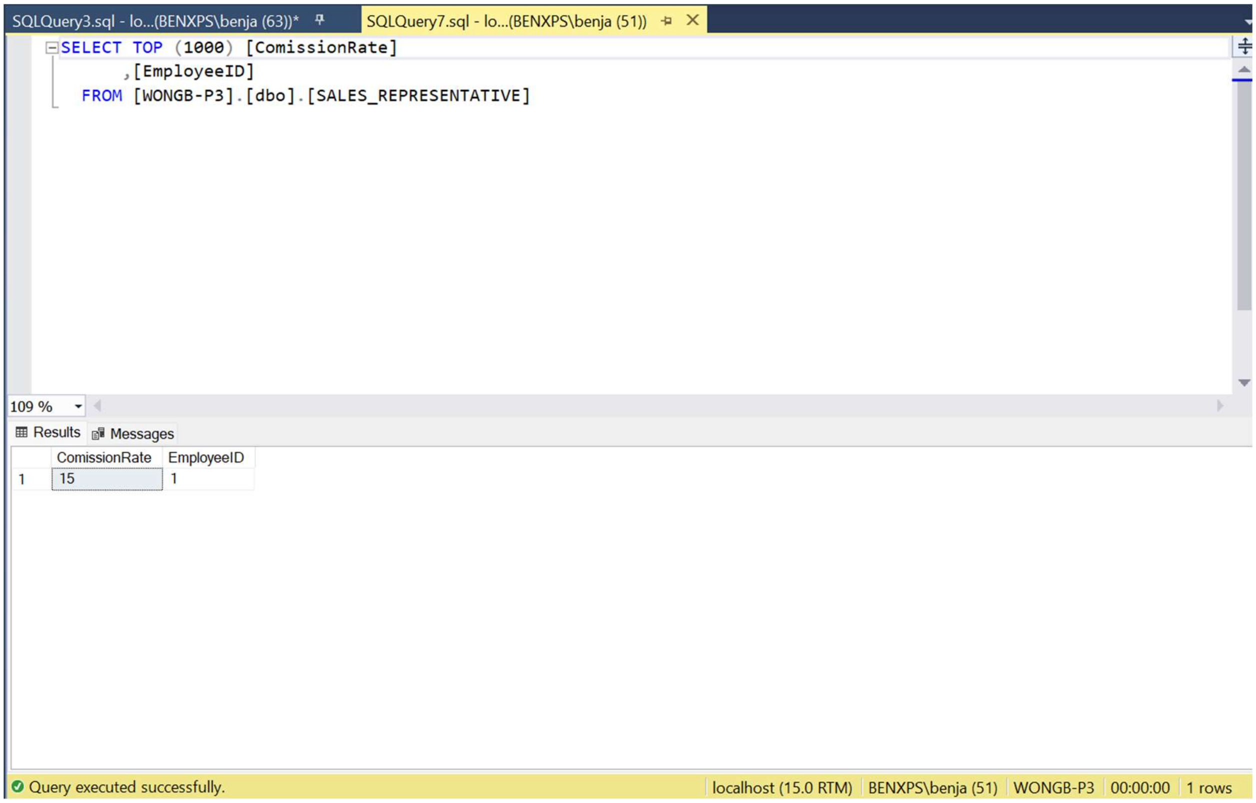
Query executed successfully. | localhost (15.0 RTM) | BENXPS\benja (67) | WONGB-P3 | 00:00:00 | 1 rows

```
GO

INSERT INTO [WONGB-P3].[dbo].[FABRICATED_T]
        ([ProductID],[PartID],[PartQuantity])
        VALUES
               (1000, 110, 2)

               GO
```

SALES_REPRESENTED_T


SQLQuery3.sql - lo...(BENXPS\benja (63))*
SQLQuery7.sql - lo...(BENXPS\benja (51))
109 %
Results
Messages

```sql
SELECT TOP (1000) [ComissionRate]
      ,[EmployeeID]
  FROM [WONGB-P3].[dbo].[SALES_REPRESENTATIVE]
```

	ComissionRate	EmployeeID
1	15	1

```
Query executed successfully.    localhost (15.0 RTM) | BENXPS\benja (51) | WONGB-P3 | 00:00:00 | 1 rows
```

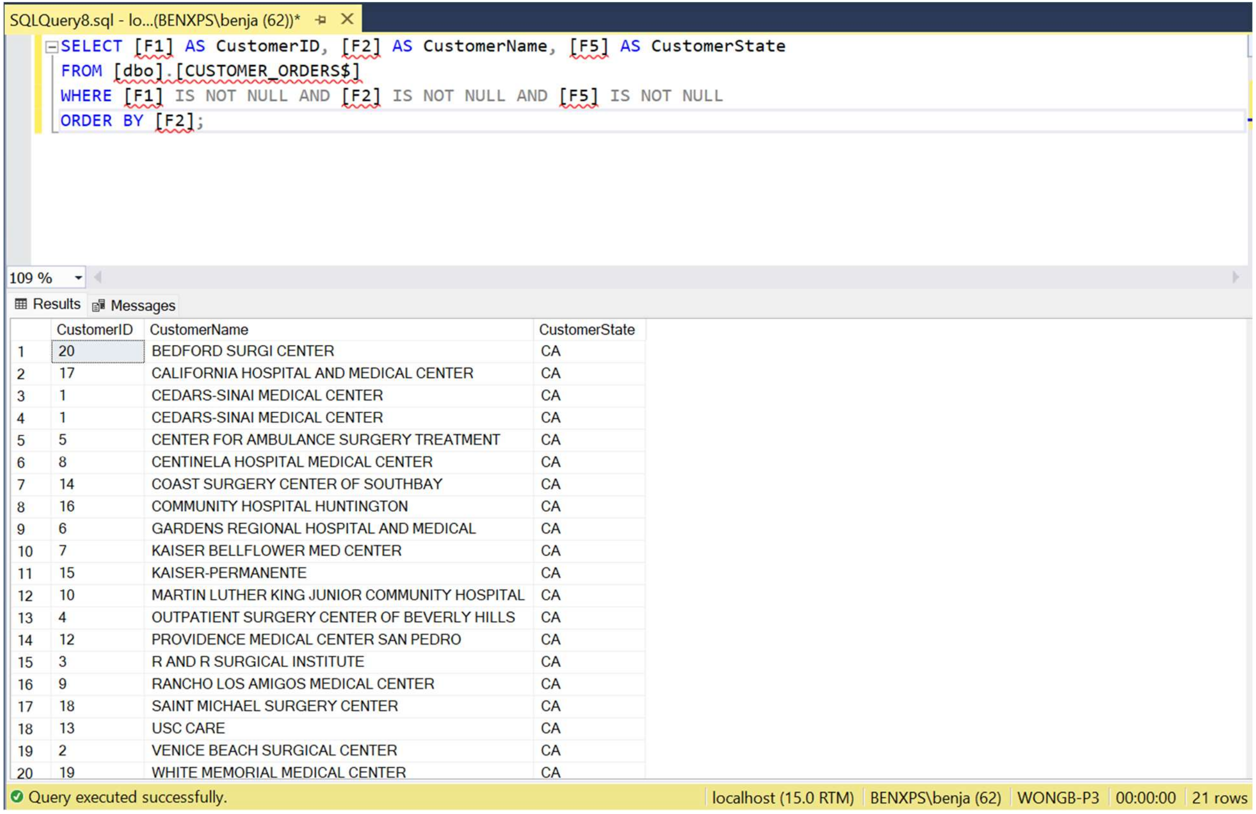
```sql
GO

INSERT INTO [WONGB-P3].[dbo].[SALES_REPRESENTATIVE]
       ([ComissionRate],[EmployeeID])
       VALUES
              (15,1)

              GO
```

DELIVERABLE 2

A. Provide a list all of the Customer ID, Customer Names, and States and sort the list in alphabetical order by Customer Name.



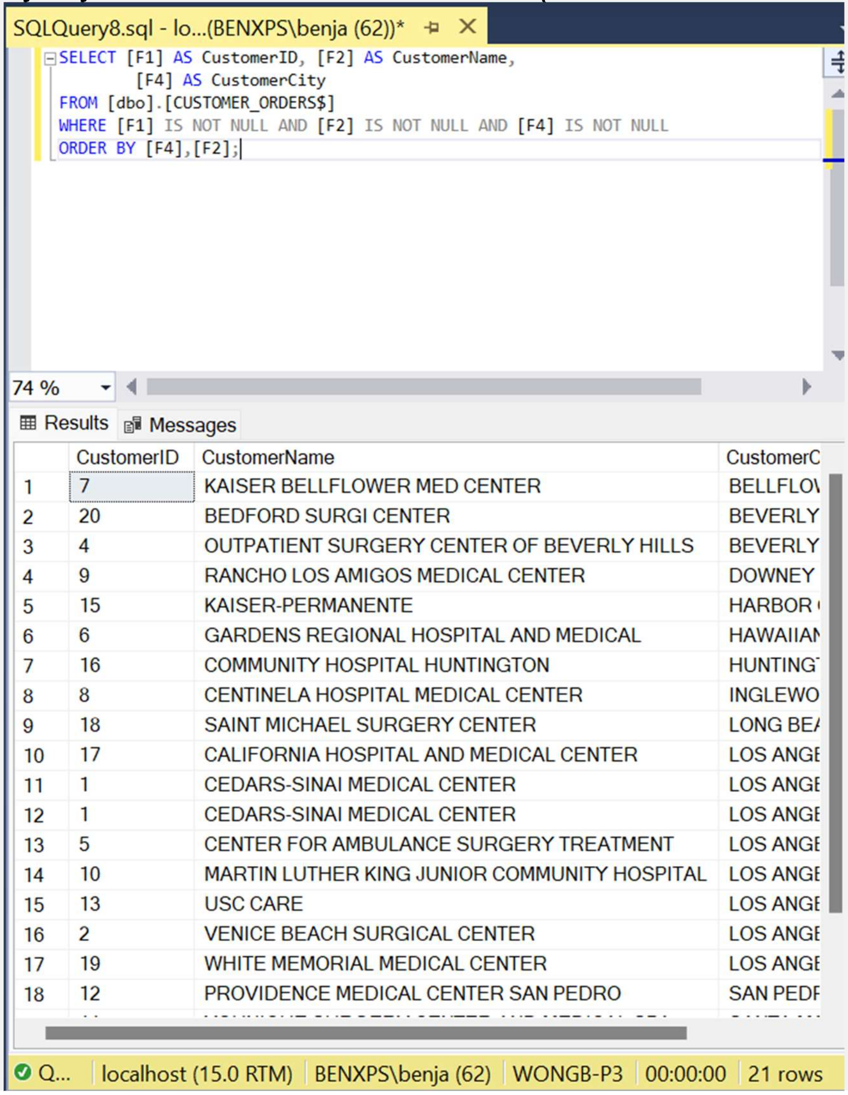
```
SELECT [F1] AS CustomerID, [F2] AS CustomerName, [F5] AS CustomerState
FROM [dbo].[CUSTOMER_ORDERS$]
WHERE [F1] IS NOT NULL AND [F2] IS NOT NULL AND [F5] IS NOT NULL
ORDER BY [F2];
```

	CustomerID	CustomerName	CustomerState
1	20	BEDFORD SURGI CENTER	CA
2	17	CALIFORNIA HOSPITAL AND MEDICAL CENTER	CA
3	1	CEDARS-SINAI MEDICAL CENTER	CA
4	1	CEDARS-SINAI MEDICAL CENTER	CA
5	5	CENTER FOR AMBULANCE SURGERY TREATMENT	CA
6	8	CENTINELA HOSPITAL MEDICAL CENTER	CA
7	14	COAST SURGERY CENTER OF SOUTHBAY	CA
8	16	COMMUNITY HOSPITAL HUNTINGTON	CA
9	6	GARDENS REGIONAL HOSPITAL AND MEDICAL	CA
10	7	KAISER BELLFLOWER MED CENTER	CA
11	15	KAISER-PERMANENTE	CA
12	10	MARTIN LUTHER KING JUNIOR COMMUNITY HOSPITAL	CA
13	4	OUTPATIENT SURGERY CENTER OF BEVERLY HILLS	CA
14	12	PROVIDENCE MEDICAL CENTER SAN PEDRO	CA
15	3	R AND R SURGICAL INSTITUTE	CA
16	9	RANCHO LOS AMIGOS MEDICAL CENTER	CA
17	18	SAINT MICHAEL SURGERY CENTER	CA
18	13	USC CARE	CA
19	2	VENICE BEACH SURGICAL CENTER	CA
20	19	WHITE MEMORIAL MEDICAL CENTER	CA

Query executed successfully. | localhost (15.0 RTM) | BENXPS\benja (62) | WONGB-P3 | 00:00:00 | 21 rows

```
SELECT [F1] AS CustomerID, [F2] AS CustomerName, [F5] AS CustomerState
FROM [dbo].[CUSTOMER_ORDERS$]
WHERE [F1] IS NOT NULL AND [F2] IS NOT NULL AND [F5] IS NOT NULL
       ORDER BY [F2];
```

B. Provide a list of all of the Customer ID, Customer Names, and City, and sort the list by city with the Customer Names in alphabetical order within each city.



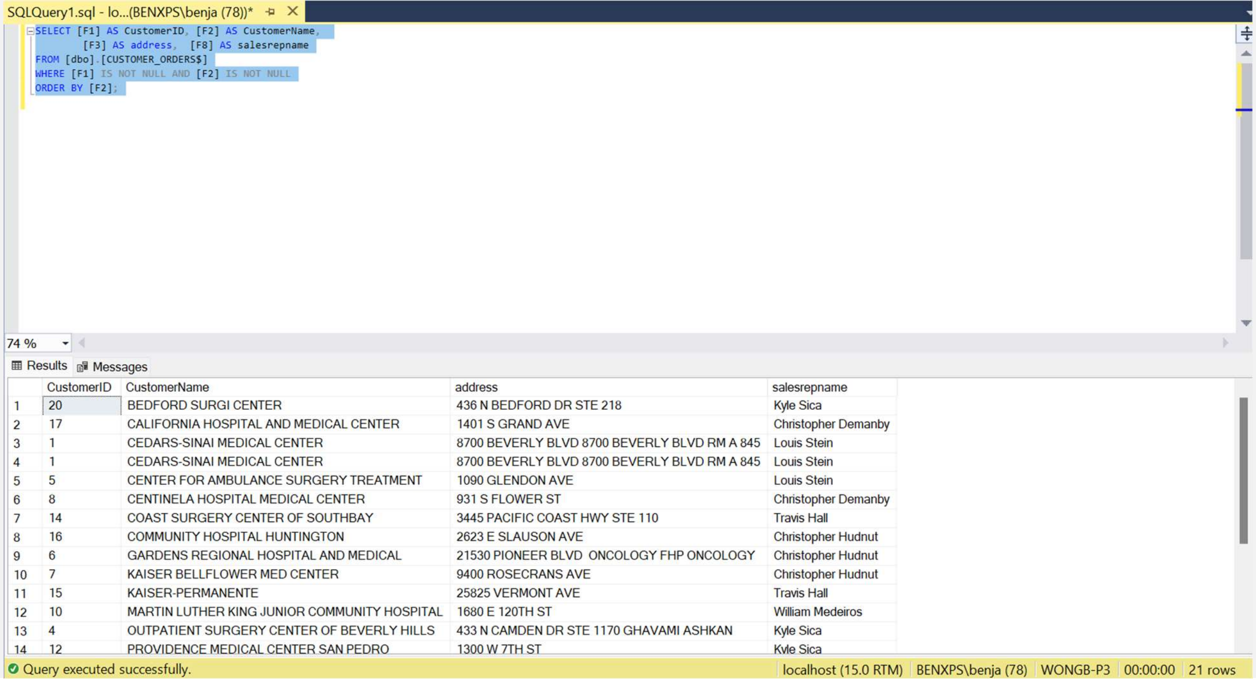
```
SELECT [F1] AS CustomerID, [F2] AS CustomerName,
        [F4] AS CustomerCity
FROM [dbo].[CUSTOMER_ORDERS$]
WHERE [F1] IS NOT NULL AND [F2] IS NOT NULL AND [F4] IS NOT NULL
ORDER BY [F4],[F2];
```

	CustomerID	CustomerName	CustomerC
1	7	KAISER BELLFLOWER MED CENTER	BELLFLOV
2	20	BEDFORD SURGI CENTER	BEVERLY
3	4	OUTPATIENT SURGERY CENTER OF BEVERLY HILLS	BEVERLY
4	9	RANCHO LOS AMIGOS MEDICAL CENTER	DOWNEY
5	15	KAISER-PERMANENTE	HARBOR
6	6	GARDENS REGIONAL HOSPITAL AND MEDICAL	HAWAIIAN
7	16	COMMUNITY HOSPITAL HUNTINGTON	HUNTINGT
8	8	CENTINELA HOSPITAL MEDICAL CENTER	INGLEWO
9	18	SAINT MICHAEL SURGERY CENTER	LONG BEA
10	17	CALIFORNIA HOSPITAL AND MEDICAL CENTER	LOS ANGE
11	1	CEDARS-SINAI MEDICAL CENTER	LOS ANGE
12	1	CEDARS-SINAI MEDICAL CENTER	LOS ANGE
13	5	CENTER FOR AMBULANCE SURGERY TREATMENT	LOS ANGE
14	10	MARTIN LUTHER KING JUNIOR COMMUNITY HOSPITAL	LOS ANGE
15	13	USC CARE	LOS ANGE
16	2	VENICE BEACH SURGICAL CENTER	LOS ANGE
17	19	WHITE MEMORIAL MEDICAL CENTER	LOS ANGE
18	12	PROVIDENCE MEDICAL CENTER SAN PEDRO	SAN PEDF

Q... | localhost (15.0 RTM) | BENXPS\benja (62) | WONGB-P3 | 00:00:00 | 21 rows

```
SELECT [F1] AS CustomerID, [F2] AS CustomerName,
              [F4] AS CustomerCity
FROM [dbo].[CUSTOMER_ORDERS$]
WHERE [F1] IS NOT NULL AND [F2] IS NOT NULL AND [F4] IS NOT NULL
ORDER BY [F4],[F2];
```

C. List the customers showing the Customer ID, Customer Name, address, and sales rep name in alphabetical order by customer name



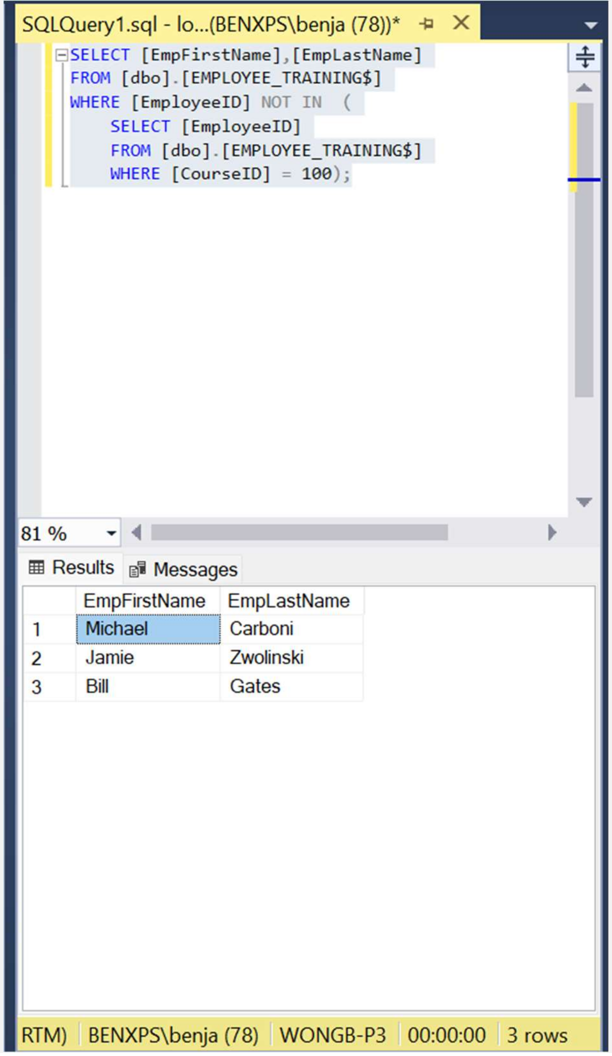
```sql
SELECT [F1] AS CustomerID, [F2] AS CustomerName,
        [F3] AS address,  [F8] AS salesrepname
FROM [dbo].[CUSTOMER_ORDERS$]
WHERE [F1] IS NOT NULL AND [F2] IS NOT NULL
ORDER BY [F2];
```

	CustomerID	CustomerName	address	salesrepname
1	20	BEDFORD SURGI CENTER	436 N BEDFORD DR STE 218	Kyle Sica
2	17	CALIFORNIA HOSPITAL AND MEDICAL CENTER	1401 S GRAND AVE	Christopher Demanby
3	1	CEDARS-SINAI MEDICAL CENTER	8700 BEVERLY BLVD 8700 BEVERLY BLVD RM A 845	Louis Stein
4	1	CEDARS-SINAI MEDICAL CENTER	8700 BEVERLY BLVD 8700 BEVERLY BLVD RM A 845	Louis Stein
5	5	CENTER FOR AMBULANCE SURGERY TREATMENT	1090 GLENDON AVE	Louis Stein
6	8	CENTINELA HOSPITAL MEDICAL CENTER	931 S FLOWER ST	Christopher Demanby
7	14	COAST SURGERY CENTER OF SOUTHBAY	3445 PACIFIC COAST HWY STE 110	Travis Hall
8	16	COMMUNITY HOSPITAL HUNTINGTON	2623 E SLAUSON AVE	Christopher Hudnut
9	6	GARDENS REGIONAL HOSPITAL AND MEDICAL	21530 PIONEER BLVD ONCOLOGY FHP ONCOLOGY	Christopher Hudnut
10	7	KAISER BELLFLOWER MED CENTER	9400 ROSECRANS AVE	Christopher Hudnut
11	15	KAISER-PERMANENTE	25825 VERMONT AVE	Travis Hall
12	10	MARTIN LUTHER KING JUNIOR COMMUNITY HOSPITAL	1680 E 120TH ST	William Medeiros
13	4	OUTPATIENT SURGERY CENTER OF BEVERLY HILLS	433 N CAMDEN DR STE 1170 GHAVAMI ASHKAN	Kyle Sica
14	12	PROVIDENCE MEDICAL CENTER SAN PEDRO	1300 W 7TH ST	Kyle Sica

```
Query executed successfully.    localhost (15.0 RTM) | BENXPS\benja (78) | WONGB-P3 | 00:00:00 | 21 rows
```

```sql
SELECT [F1] AS CustomerID, [F2] AS CustomerName,
              [F3] AS address,  [F8] AS salesrepname
FROM [dbo].[CUSTOMER_ORDERS$]
WHERE [F1] IS NOT NULL AND [F2] IS NOT NULL
ORDER BY [F2];
```

D. Which employees have not completed course ID = 100? Hint: name of employee only, and the best way to determine this is by having a subselect statement to determine the EmployeeIDs that have completed CourseID 100, and then have a the select statement use the output of the subselect to determine which of all of the employees are not in the list provided by the subselect.

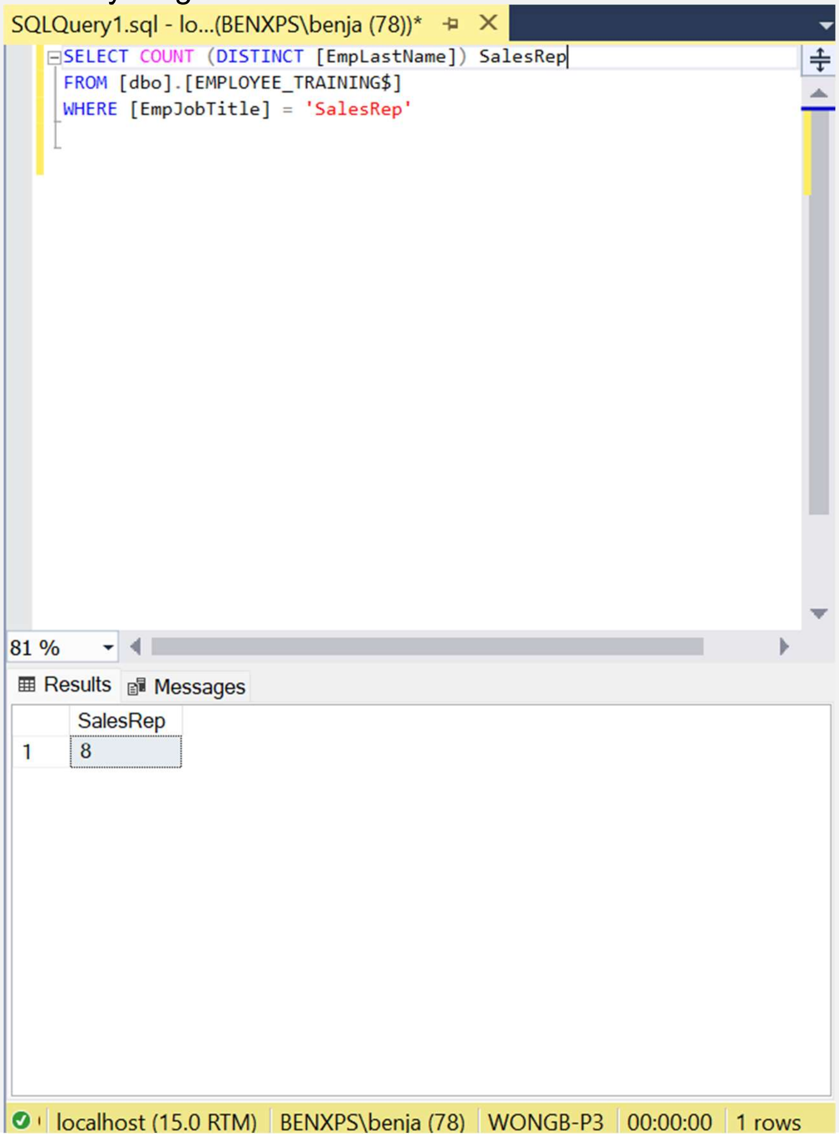


```
SELECT [EmpFirstName],[EmpLastName]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmployeeID] NOT IN  (
	SELECT [EmployeeID]
	FROM [dbo].[EMPLOYEE_TRAINING$]
	WHERE [CourseID] = 100);
```

	EmpFirstName	EmpLastName
1	Michael	Carboni
2	Jamie	Zwolinski
3	Bill	Gates

```
SELECT [EmpFirstName],[EmpLastName]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmployeeID] NOT IN  (
        SELECT [EmployeeID]
        FROM [dbo].[EMPLOYEE_TRAINING$]
        WHERE [CourseID] = 100);
```

E. How many sales reps does PSC have? Hint: I want to know how many, not who they are. Also, realize that all sales reps are employees, but not all employees are sales reps. Also, keep in mind that being a sales rep does not mean that they have actually sold anything



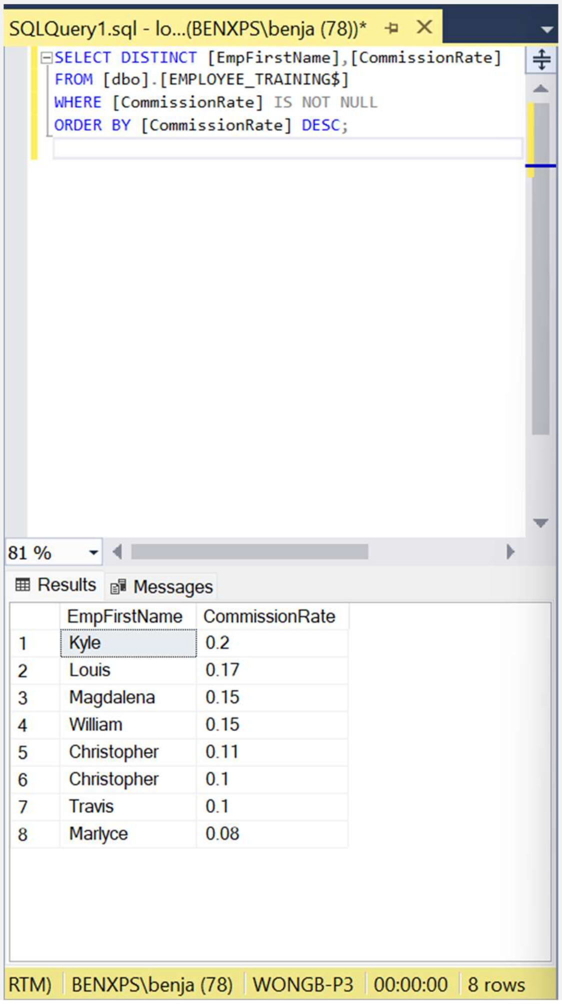
```
SELECT COUNT (DISTINCT [EmpLastName]) SalesRep
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmpJobTitle] = 'SalesRep'
```

	SalesRep
1	8

localhost (15.0 RTM) | BENXPS\benja (78) | WONGB-P3 | 00:00:00 | 1 rows

```
SELECT COUNT (DISTINCT [EmpLastName]) SalesRep
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmpJobTitle] = 'SalesRep'
```

F. List all of the sales reps sorted by largest commission rate first Hint: name and sales commission rate

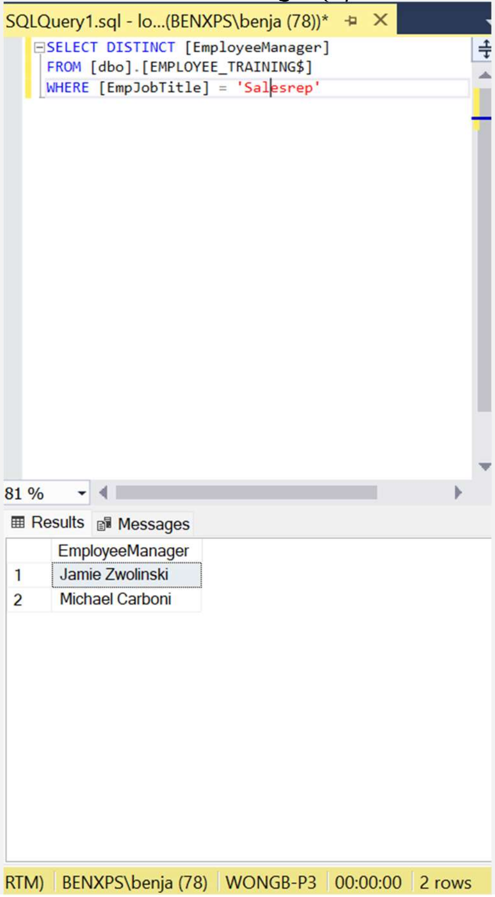


```sql
SELECT DISTINCT [EmpFirstName],[CommissionRate]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [CommissionRate] IS NOT NULL
ORDER BY [CommissionRate] DESC;
```

	EmpFirstName	CommissionRate
1	Kyle	0.2
2	Louis	0.17
3	Magdalena	0.15
4	William	0.15
5	Christopher	0.11
6	Christopher	0.1
7	Travis	0.1
8	Marlyce	0.08

```sql
SELECT DISTINCT [EmpFirstName],[CommissionRate]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [CommissionRate] IS NOT NULL
ORDER BY [CommissionRate] DESC;
```

G.Who are the manager(s) of the sales reps? Hint: name of the manager only.



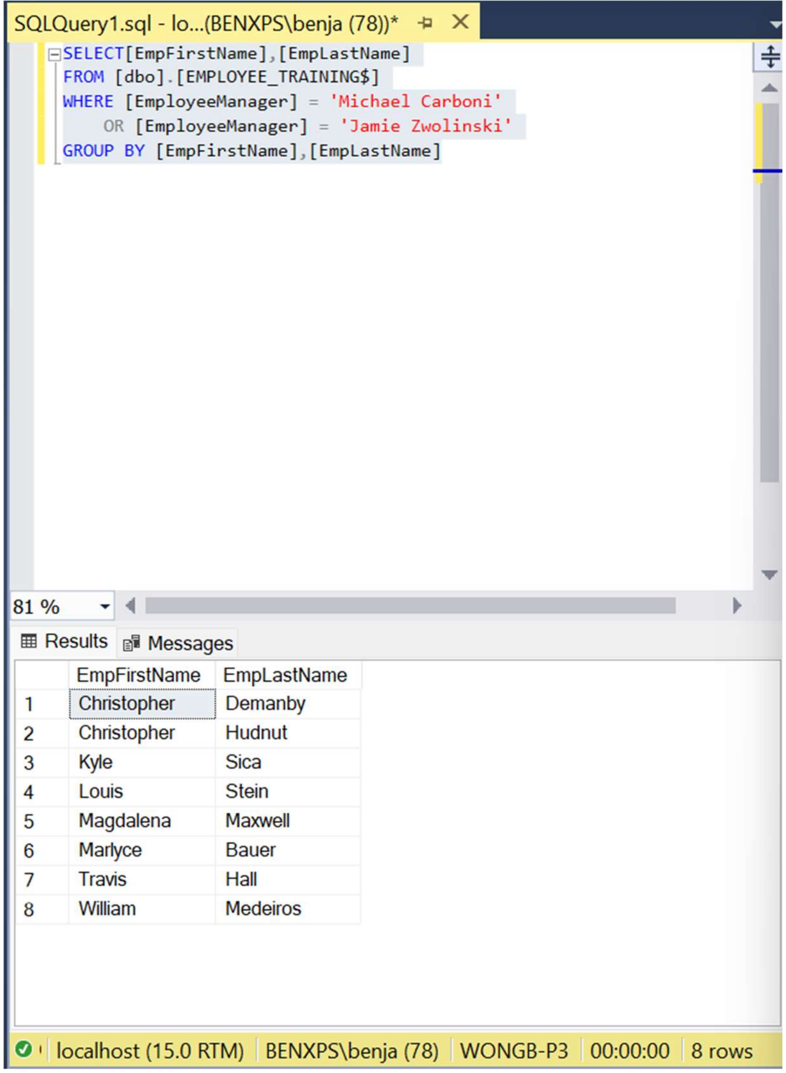
```sql
SELECT DISTINCT [EmployeeManager]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmpJobTitle] = 'Salesrep'
```

	EmployeeManager
1	Jamie Zwolinski
2	Michael Carboni

RTM) | BENXPS\benja (78) | WONGB-P3 | 00:00:00 | 2 rows

```sql
SELECT DISTINCT [EmployeeManager]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmpJobTitle] = 'Salesrep'
```

H.List the employees names who report to a Sales Manager. Hint: Your SQL statement will need to determine the manager first before it can determine the employees that report to him/her.



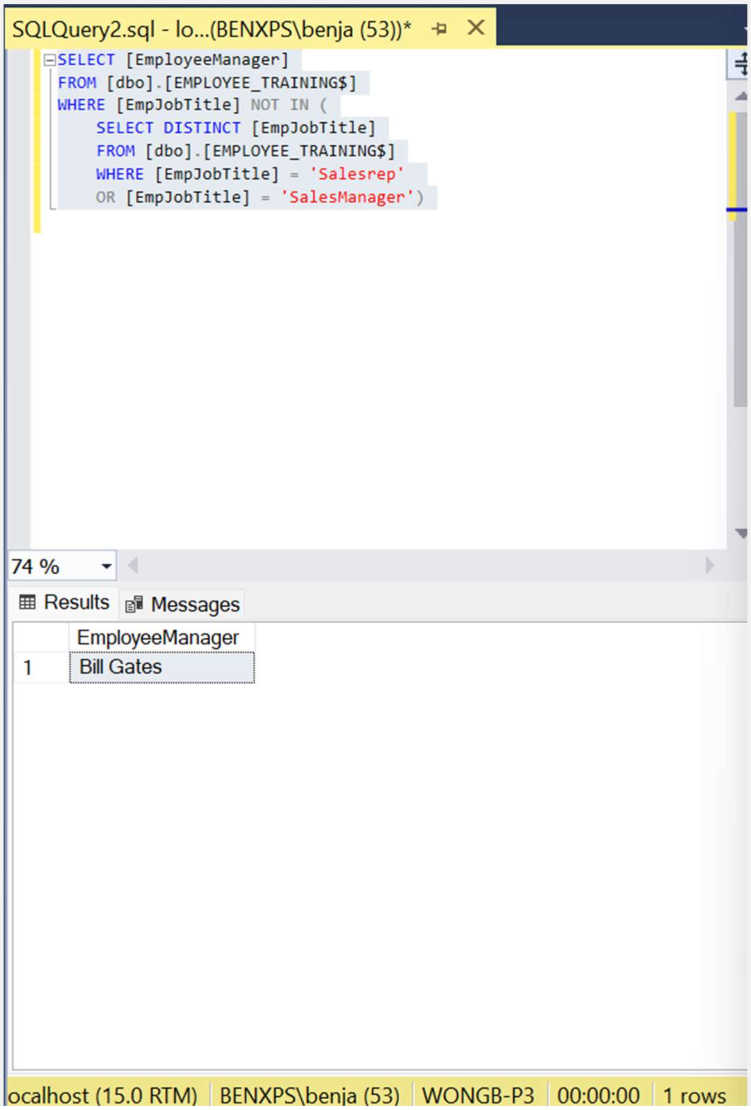
```
SELECT[EmpFirstName],[EmpLastName]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmployeeManager] = 'Michael Carboni'
    OR [EmployeeManager] = 'Jamie Zwolinski'
GROUP BY [EmpFirstName],[EmpLastName]
```

	EmpFirstName	EmpLastName
1	Christopher	Demanby
2	Christopher	Hudnut
3	Kyle	Sica
4	Louis	Stein
5	Magdalena	Maxwell
6	Marlyce	Bauer
7	Travis	Hall
8	William	Medeiros

localhost (15.0 RTM) | BENXPS\benja (78) | WONGB-P3 | 00:00:00 | 8 rows

```
SELECT[EmpFirstName],[EmpLastName]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmployeeManager] = 'Michael Carboni'
       OR [EmployeeManager] = 'Jamie Zwolinski'
GROUP BY [EmpFirstName],[EmpLastName]
```

I. Who is the manager of the manager of the sales reps? Hint: Show the name of the sales rep's manager's manager only, and your single SQL statement will need to determine the sales rep's manager before it can determine the manager of the sales rep's manager.



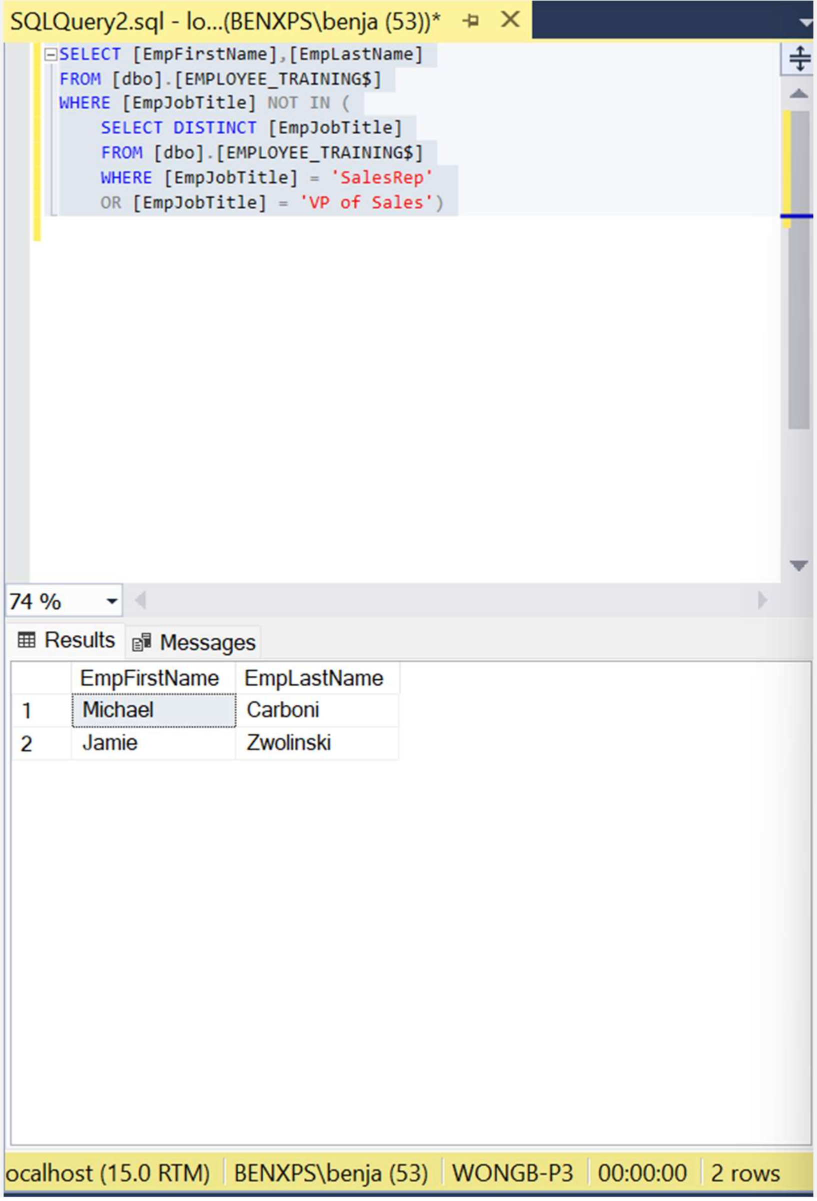
```
SELECT [EmployeeManager]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmpJobTitle] NOT IN (
    SELECT DISTINCT [EmpJobTitle]
    FROM [dbo].[EMPLOYEE_TRAINING$]
    WHERE [EmpJobTitle] = 'Salesrep'
    OR [EmpJobTitle] = 'SalesManager')
```

	EmployeeManager
1	Bill Gates

ocalhost (15.0 RTM) | BENXPS\benja (53) | WONGB-P3 | 00:00:00 | 1 rows

```
SELECT [EmployeeManager]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmpJobTitle] NOT IN (
        SELECT DISTINCT [EmpJobTitle]
        FROM [dbo].[EMPLOYEE_TRAINING$]
        WHERE [EmpJobTitle] = 'Salesrep'
        OR [EmpJobTitle] = 'SalesManager')
```

J. List the employee names of those that report directly to the manager of the sales manager(s). Hint: Your SQL statement must determine the sales manager before it can determine manager of the sales rep's manager, and then it must determine the names of those that report to the manager of the sales rep's manager.



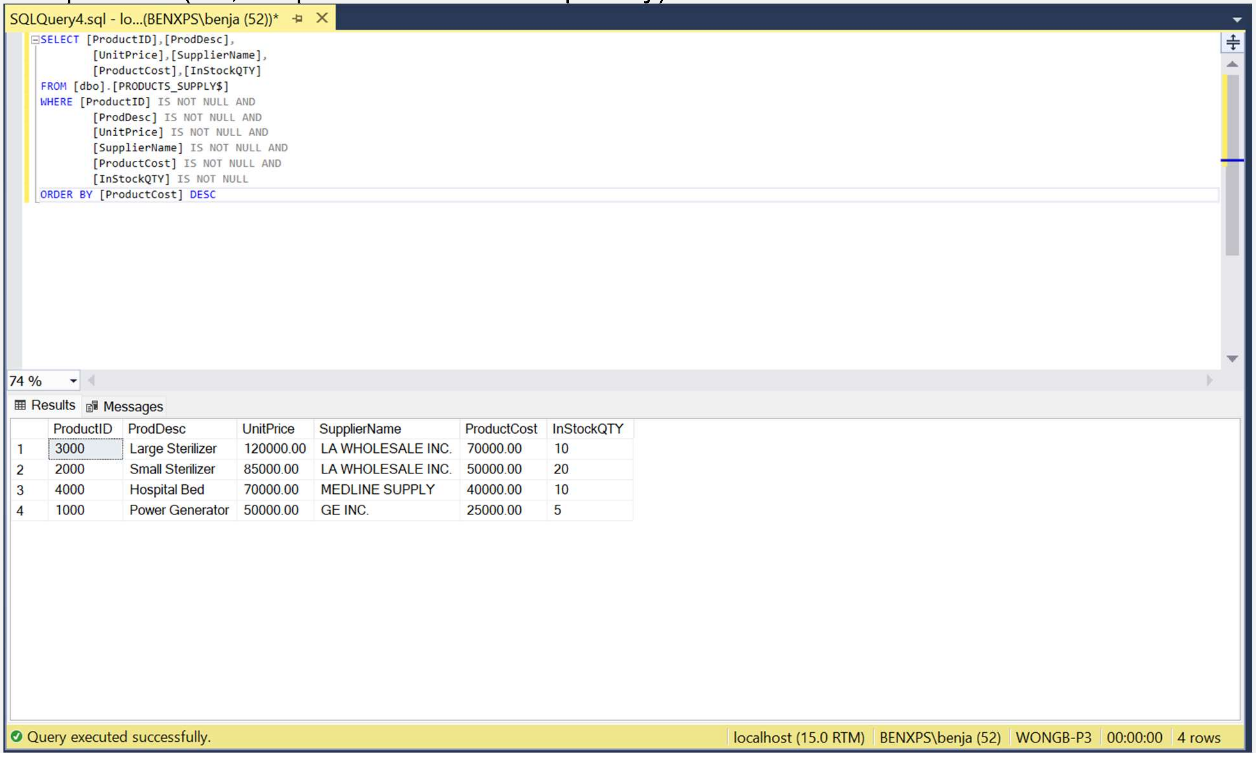
```
SELECT [EmpFirstName],[EmpLastName]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmpJobTitle] NOT IN (
    SELECT DISTINCT [EmpJobTitle]
    FROM [dbo].[EMPLOYEE_TRAINING$]
    WHERE [EmpJobTitle] = 'SalesRep'
    OR [EmpJobTitle] = 'VP of Sales')
```

	EmpFirstName	EmpLastName
1	Michael	Carboni
2	Jamie	Zwolinski

```
ocalhost (15.0 RTM) | BENXPS\benja (53) | WONGB-P3 | 00:00:00 | 2 rows
```

```
SELECT [EmpFirstName],[EmpLastName]
FROM [dbo].[EMPLOYEE_TRAINING$]
WHERE [EmpJobTitle] NOT IN (
        SELECT DISTINCT [EmpJobTitle]
        FROM [dbo].[EMPLOYEE_TRAINING$]
        WHERE [EmpJobTitle] = 'SalesRep'
        OR [EmpJobTitle] = 'VP of Sales')
```

K. Provide an inventory report that lists the most costly items first. The inventory report should include product identification numbers, product descriptions, unit prices, supplier names, cost, and quantity supplied. Hint: the most costly item is the one in which the product of cost and quantity yields the largest value. Be careful not to confuse cost with price. Price is the value that the products are sold to the customers, and cost is the value that is paid to purchase the products from the suppliers. Also, be aware that the word “product” above refers to the result of multiplication (i.e., the product of cost and quantity).



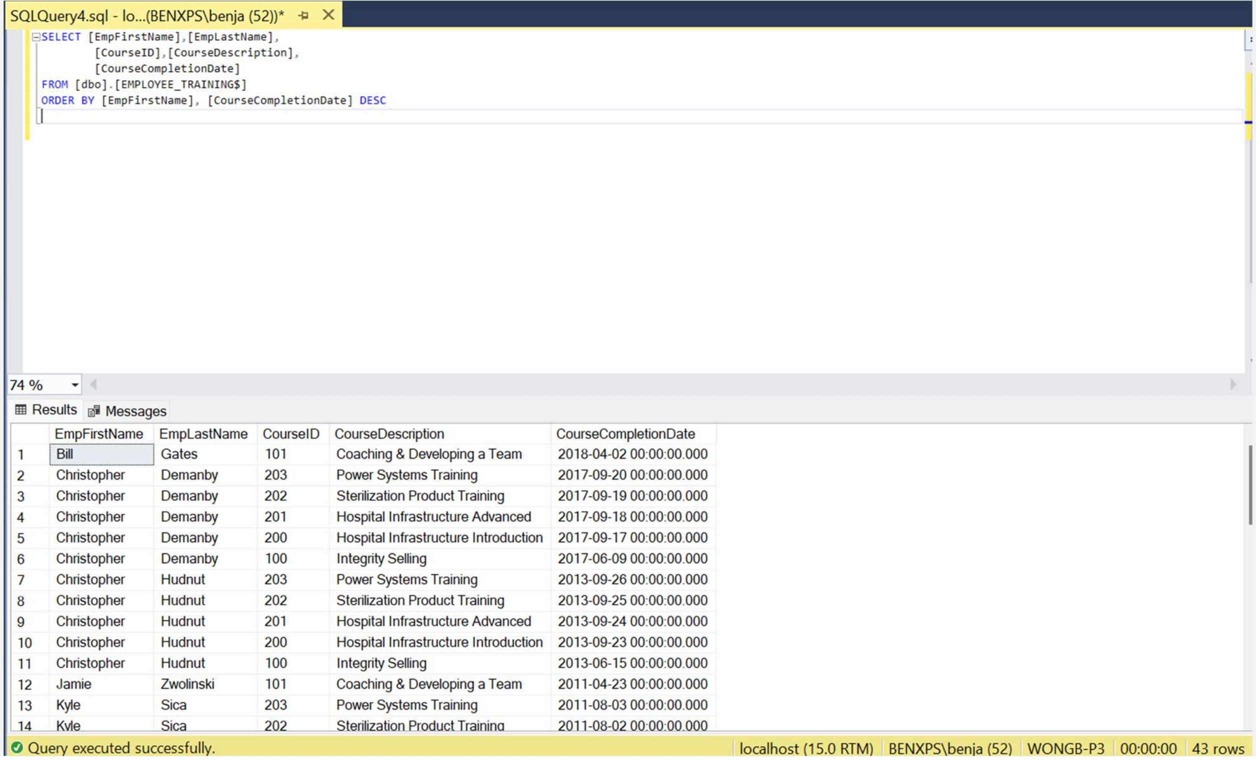
```
SELECT [ProductID],[ProdDesc],
        [UnitPrice],[SupplierName],
        [ProductCost],[InStockQTY]
FROM [dbo].[PRODUCTS_SUPPLY$]
WHERE [ProductID] IS NOT NULL AND
        [ProdDesc] IS NOT NULL AND
        [UnitPrice] IS NOT NULL AND
        [SupplierName] IS NOT NULL AND
        [ProductCost] IS NOT NULL AND
        [InStockQTY] IS NOT NULL
ORDER BY [ProductCost] DESC
```

	ProductID	ProdDesc	UnitPrice	SupplierName	ProductCost	InStockQTY
1	3000	Large Sterilizer	120000.00	LA WHOLESALE INC.	70000.00	10
2	2000	Small Sterilizer	85000.00	LA WHOLESALE INC.	50000.00	20
3	4000	Hospital Bed	70000.00	MEDLINE SUPPLY	40000.00	10
4	1000	Power Generator	50000.00	GE INC.	25000.00	5

Query executed successfully. | localhost (15.0 RTM) | BENXPS\benja (52) | WONGB-P3 | 00:00:00 | 4 rows

```
SELECT [ProductID],[ProdDesc],
              [UnitPrice],[SupplierName],
              [ProductCost],[InStockQTY]
FROM [dbo].[PRODUCTS_SUPPLY$]
WHERE [ProductID] IS NOT NULL AND
              [ProdDesc] IS NOT NULL AND
              [UnitPrice] IS NOT NULL AND
              [SupplierName] IS NOT NULL AND
              [ProductCost] IS NOT NULL AND
              [InStockQTY] IS NOT NULL
ORDER BY [ProductCost] DESC
```

L. List all of the employees in alphabetical order and each course they have completed in order of date completed. Hint: some employees might not have taken any courses



```
SELECT [EmpFirstName],[EmpLastName],
        [CourseID],[CourseDescription],
        [CourseCompletionDate]
FROM [dbo].[EMPLOYEE_TRAINING$]
ORDER BY [EmpFirstName], [CourseCompletionDate] DESC
```

	EmpFirstName	EmpLastName	CourseID	CourseDescription	CourseCompletionDate
1	Bill	Gates	101	Coaching & Developing a Team	2018-04-02 00:00:00.000
2	Christopher	Demanby	203	Power Systems Training	2017-09-20 00:00:00.000
3	Christopher	Demanby	202	Sterilization Product Training	2017-09-19 00:00:00.000
4	Christopher	Demanby	201	Hospital Infrastructure Advanced	2017-09-18 00:00:00.000
5	Christopher	Demanby	200	Hospital Infrastructure Introduction	2017-09-17 00:00:00.000
6	Christopher	Demanby	100	Integrity Selling	2017-06-09 00:00:00.000
7	Christopher	Hudnut	203	Power Systems Training	2013-09-26 00:00:00.000
8	Christopher	Hudnut	202	Sterilization Product Training	2013-09-25 00:00:00.000
9	Christopher	Hudnut	201	Hospital Infrastructure Advanced	2013-09-24 00:00:00.000
10	Christopher	Hudnut	200	Hospital Infrastructure Introduction	2013-09-23 00:00:00.000
11	Christopher	Hudnut	100	Integrity Selling	2013-06-15 00:00:00.000
12	Jamie	Zwolinski	101	Coaching & Developing a Team	2011-04-23 00:00:00.000
13	Kyle	Sica	203	Power Systems Training	2011-08-03 00:00:00.000
14	Kyle	Sica	202	Sterilization Product Training	2011-08-02 00:00:00.000

Query executed successfully. | localhost (15.0 RTM) | BENXPS\benja (52) | WONGB-P3 | 00:00:00 | 43 rows

```
SELECT [EmpFirstName],[EmpLastName],
              [CourseID],[CourseDescription],
              [CourseCompletionDate]
FROM [dbo].[EMPLOYEE_TRAINING$]
ORDER BY [EmpFirstName], [CourseCompletionDate] DESC
```