Exercise 7 – Select Statements

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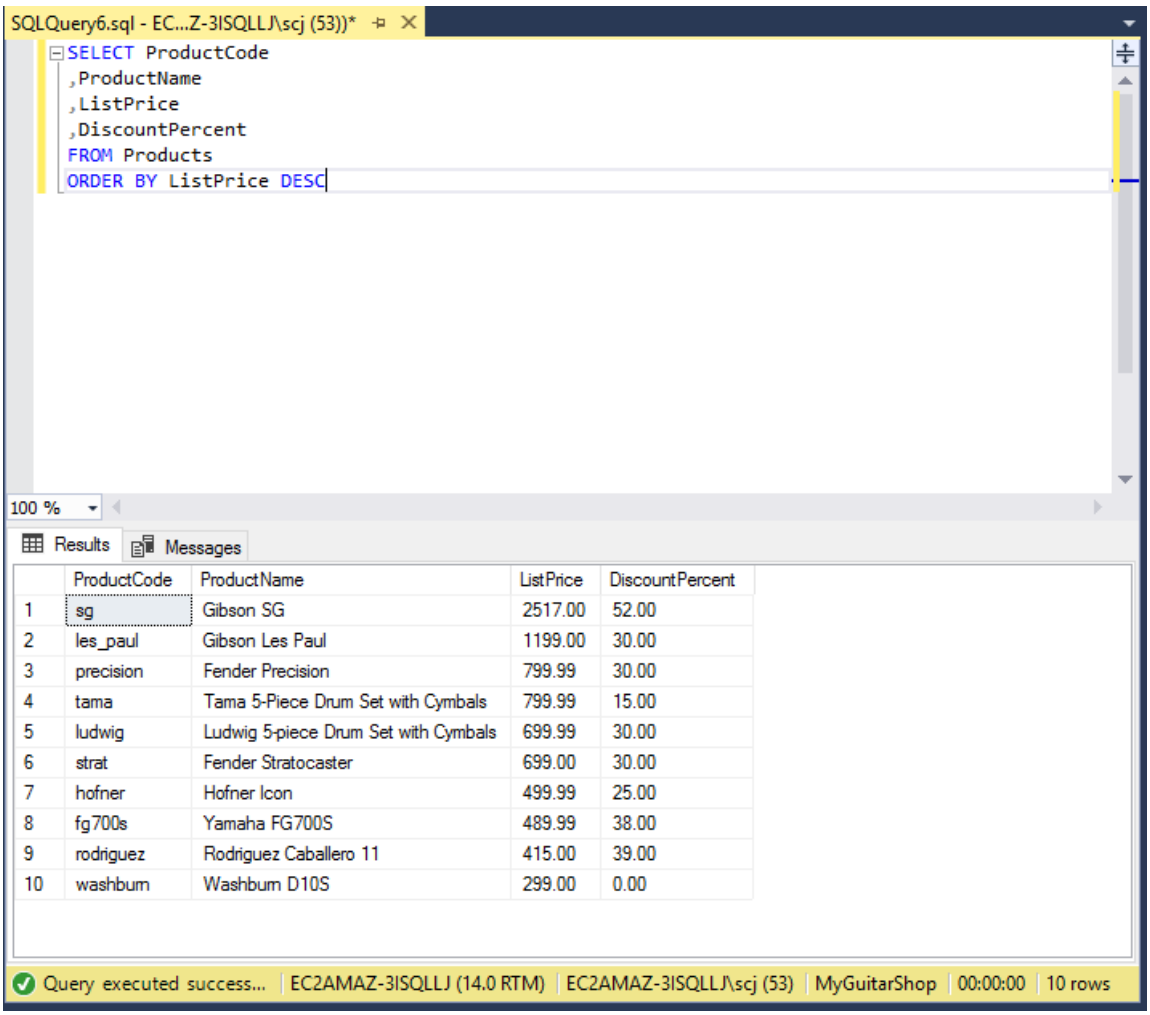
1 SELECT four columns

See figure 1

```
SELECT ProductCode
,ProductName
,ListPrice
,DiscountPercent
FROM Products
ORDER BY ListPrice DESC
```

Figure 1: Select four columns of the products table, per section 1

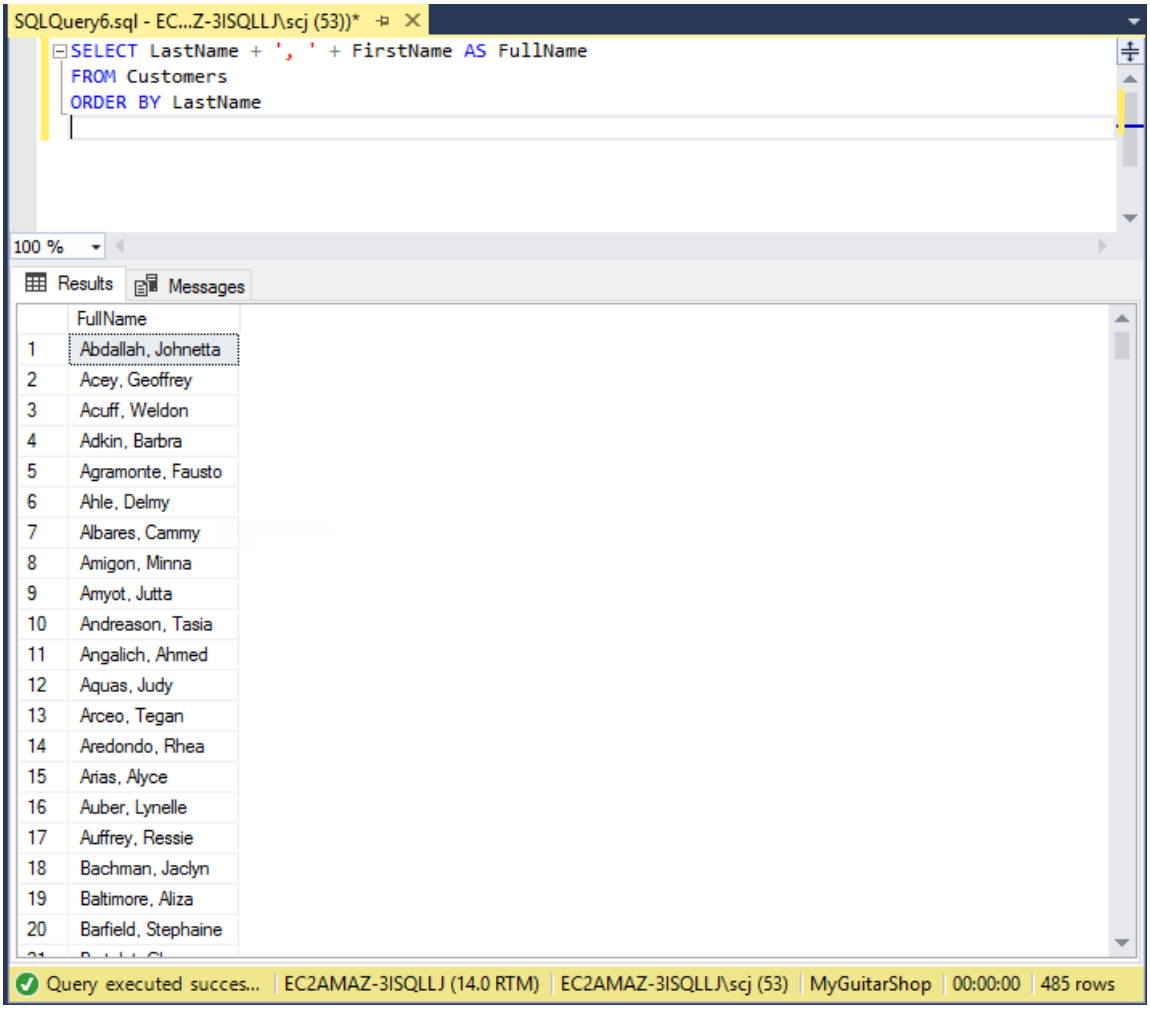


2 Return FullName

```
SELECT LastName + ', ' + FirstName AS FullName
FROM Customers
ORDER BY LastName
```

See figure 2

Figure 2: Summarized FullName, as per 2

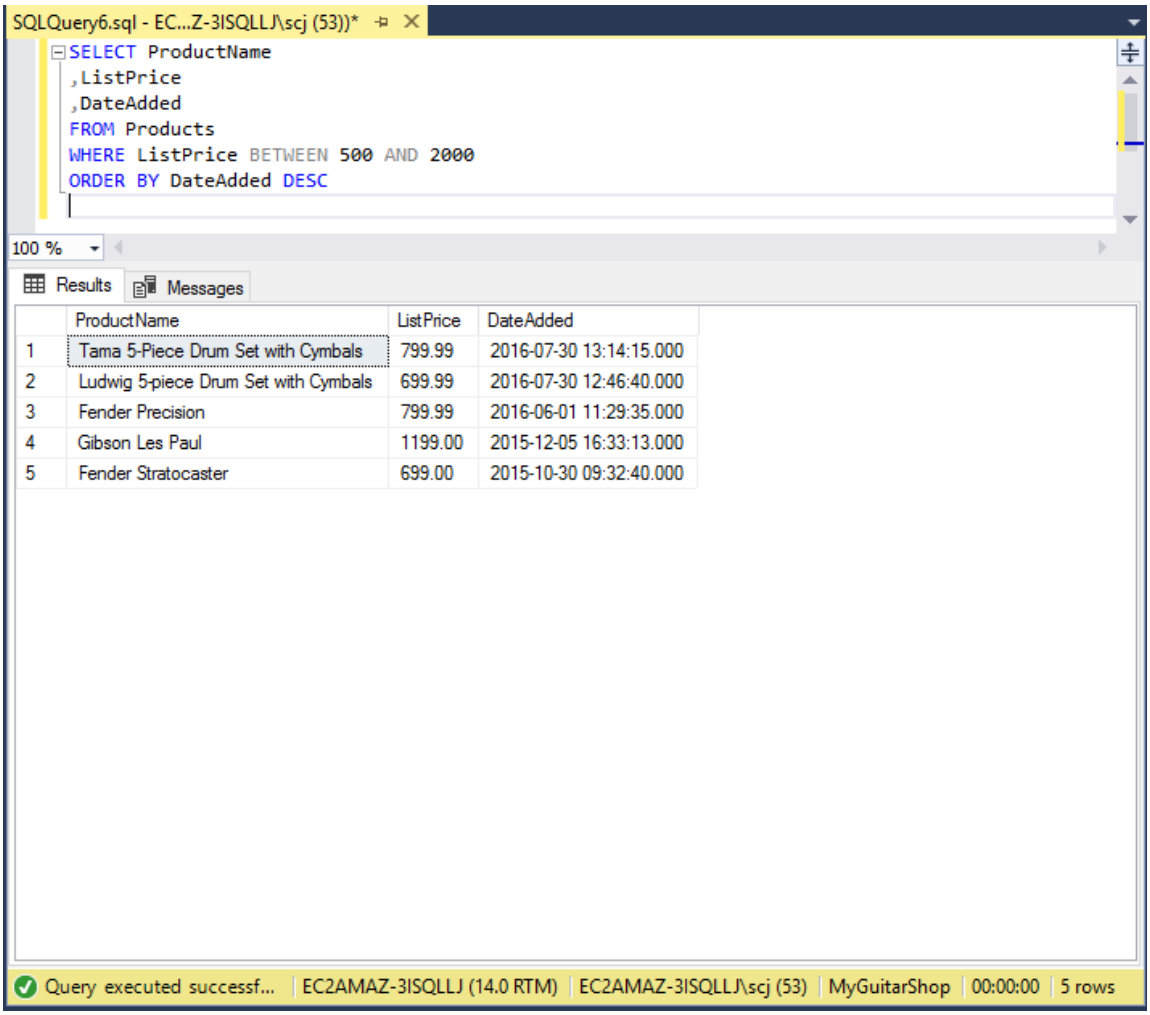


3 Select name, listprice, dateadded

```
SELECT ProductName
,ListPrice
,DateAdded
FROM Products
WHERE ListPrice BETWEEN 500 AND 2000
ORDER BY DateAdded DESC
```

See figure 3

Figure 3: Returns Name, Price, and Date, per 3

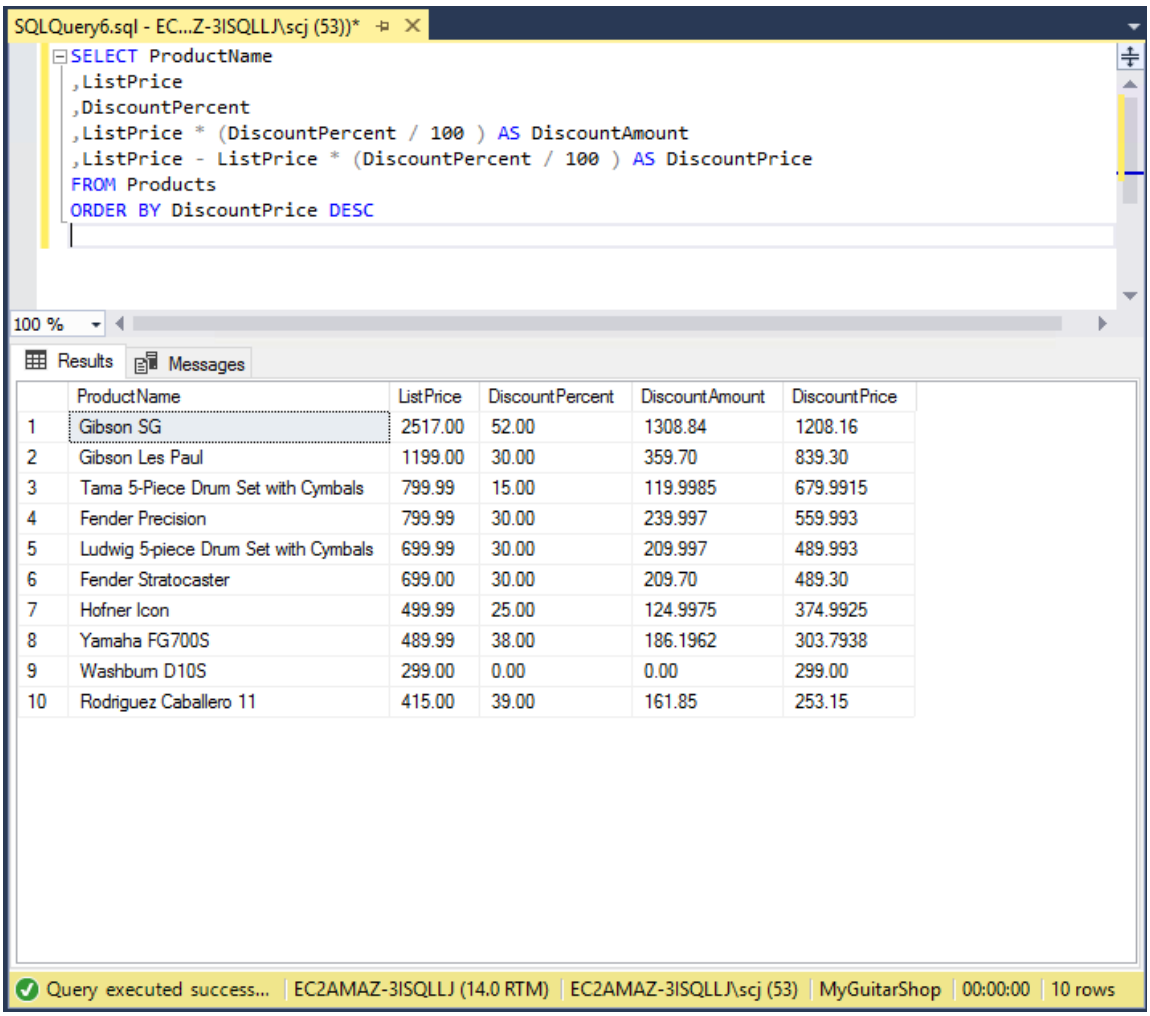


4 Return Name, Price, Discount, etc

See figure 4

```
SELECT ProductName
,ListPrice
,DiscountPercent
,ListPrice * (DiscountPercent / 100 ) AS DiscountAmount
,ListPrice - ListPrice * (DiscountPercent / 100 ) AS DiscountPrice /*Because
aliases aren't reusable in the same scope, much to my annoyance, and we haven't
learned subqueries or CTEs yet.*/
FROM Products
ORDER BY DiscountPrice DESC
```

Figure 4: Per 4, return Name, Price, and Discount, ordered by DiscountPrice



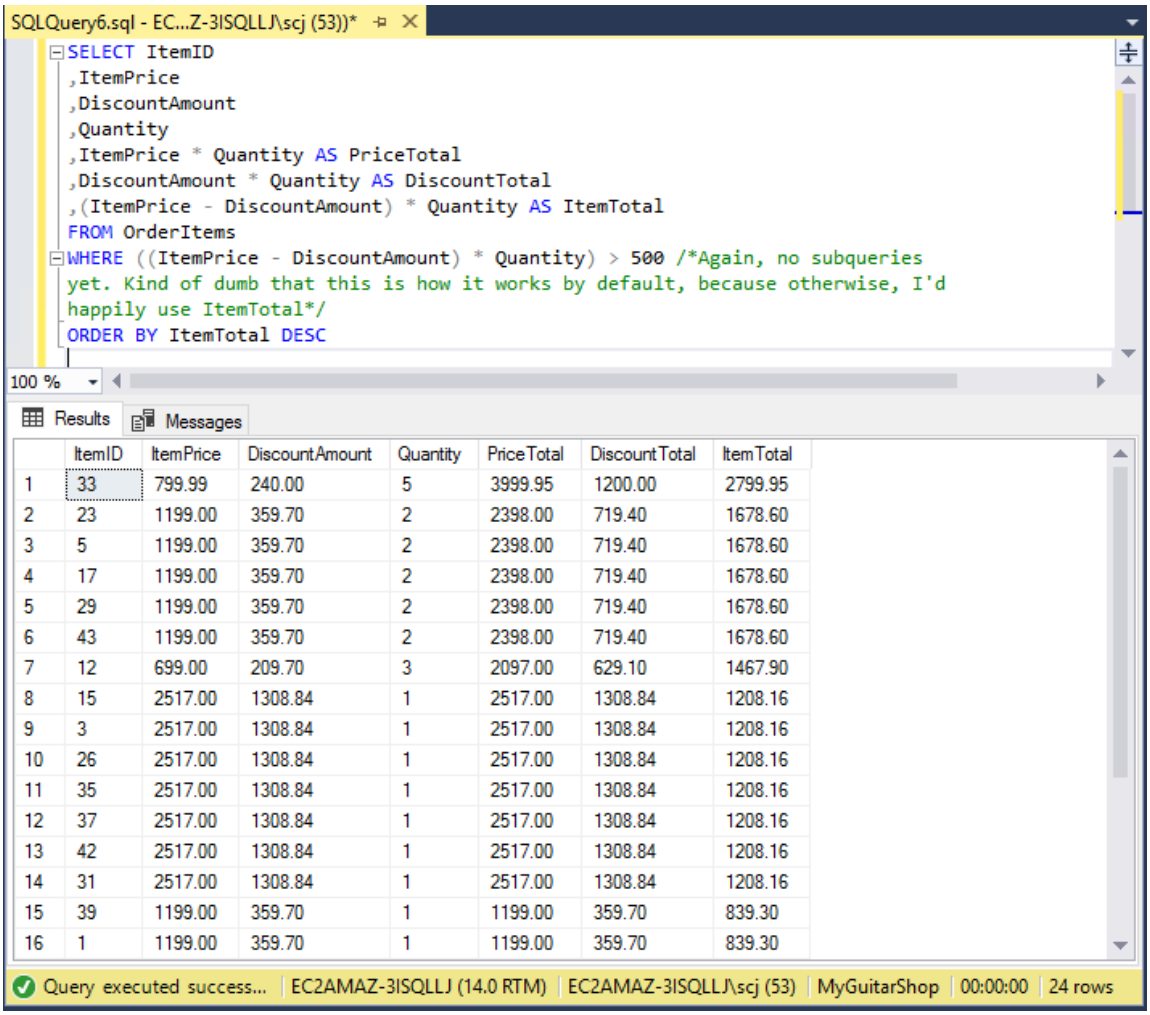
	ProductName	ListPrice	DiscountPercent	DiscountAmount	DiscountPrice
1	Gibson SG	2517.00	52.00	1308.84	1208.16
2	Gibson Les Paul	1199.00	30.00	359.70	839.30
3	Tama 5-Piece Drum Set with Cymbals	799.99	15.00	119.9985	679.9915
4	Fender Precision	799.99	30.00	239.997	559.993
5	Ludwig 5-piece Drum Set with Cymbals	699.99	30.00	209.997	489.993
6	Fender Stratocaster	699.00	30.00	209.70	489.30
7	Hofner Icon	499.99	25.00	124.9975	374.9925
8	Yamaha FG700S	489.99	38.00	186.1962	303.7938
9	Washburn D10S	299.00	0.00	0.00	299.00
10	Rodriguez Caballero 11	415.00	39.00	161.85	253.15

5 Return Item ID, Price, Discount, etc from OrderItems

```
SELECT ItemID
,ItemPrice
,DiscountAmount
,Quantity
,ItemPrice * Quantity AS PriceTotal
,DiscountAmount * Quantity AS DiscountTotal
,(ItemPrice - DiscountAmount) * Quantity AS ItemTotal
FROM OrderItems
WHERE ((ItemPrice - DiscountAmount) * Quantity) > 500 /*Again, no subqueries
yet. Kind of dumb that this is how it works by default, because otherwise, I'd
happily use ItemTotal*/
ORDER BY ItemTotal DESC
```

See figure 5

Figure 5: Per 5, return ID, Price, etc from OrderItems



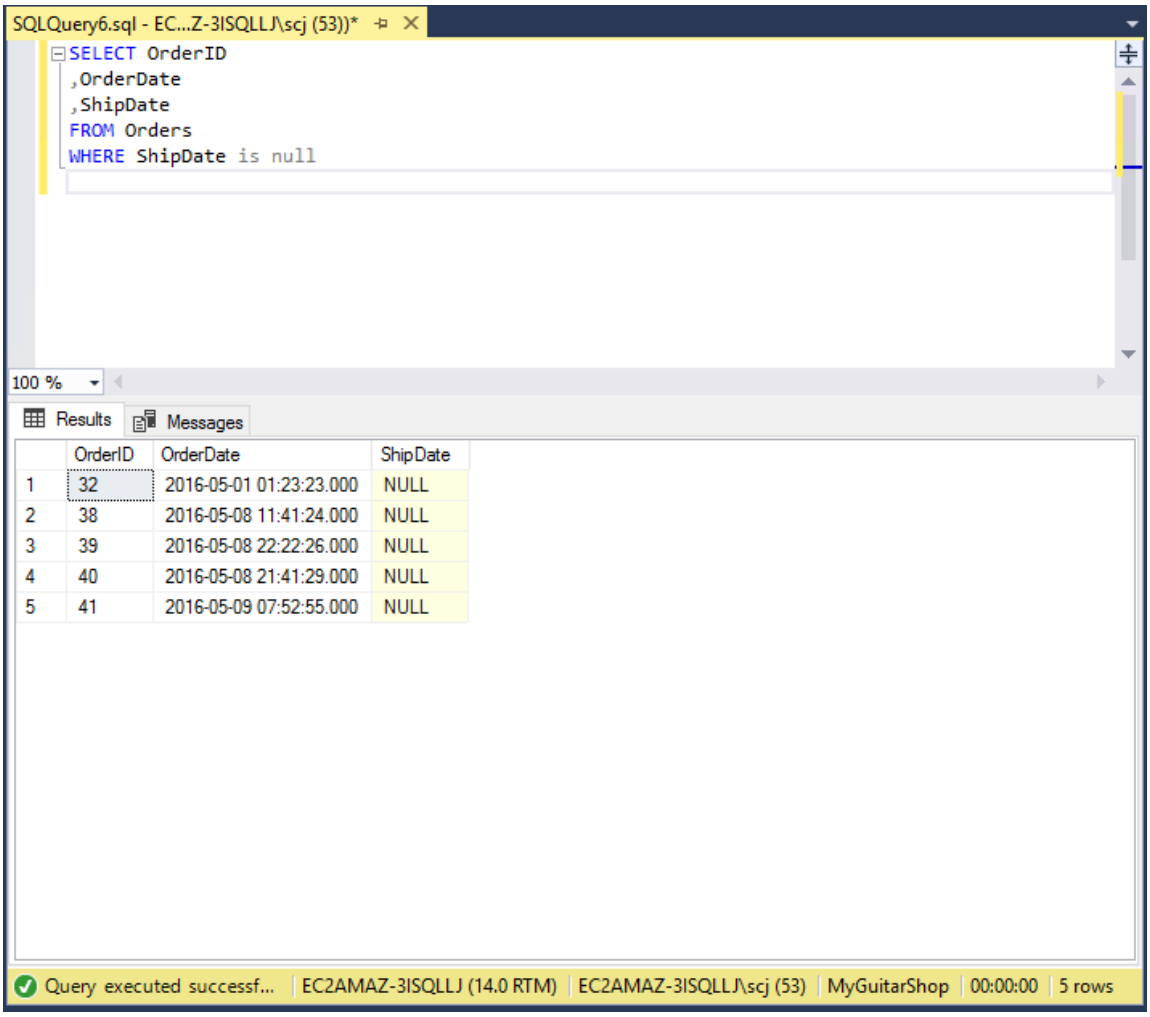
	ItemID	ItemPrice	DiscountAmount	Quantity	PriceTotal	DiscountTotal	ItemTotal
1	33	799.99	240.00	5	3999.95	1200.00	2799.95
2	23	1199.00	359.70	2	2398.00	719.40	1678.60
3	5	1199.00	359.70	2	2398.00	719.40	1678.60
4	17	1199.00	359.70	2	2398.00	719.40	1678.60
5	29	1199.00	359.70	2	2398.00	719.40	1678.60
6	43	1199.00	359.70	2	2398.00	719.40	1678.60
7	12	699.00	209.70	3	2097.00	629.10	1467.90
8	15	2517.00	1308.84	1	2517.00	1308.84	1208.16
9	3	2517.00	1308.84	1	2517.00	1308.84	1208.16
10	26	2517.00	1308.84	1	2517.00	1308.84	1208.16
11	35	2517.00	1308.84	1	2517.00	1308.84	1208.16
12	37	2517.00	1308.84	1	2517.00	1308.84	1208.16
13	42	2517.00	1308.84	1	2517.00	1308.84	1208.16
14	31	2517.00	1308.84	1	2517.00	1308.84	1208.16
15	39	1199.00	359.70	1	1199.00	359.70	839.30
16	1	1199.00	359.70	1	1199.00	359.70	839.30

6 Return attributes where one is null

```
SELECT OrderID
,OrderDate
,ShipDate
FROM Orders
WHERE ShipDate is null
```

See figure 6

Figure 6: Per 6, return ID, Dates, from Orders, where ShipDate is null



7 SELECT without FROM

```
SELECT 100 AS Price
,0.07 AS TaxRate
,100 * 0.07 AS TaxAmount /*Eww, magic numbers*/
,100 + (100 * 0.07) AS Total /*Why is SQL gross?*/
```

See figure 7

Figure 7: Per 7, SELECT custom values into columns w/o a FROM clause