As I am wanting to make a start in my Data Analysis career, I have decided to go on Github to demonstrate my SQL syntax skills. I am going to [AdventureWorks medium questions - SQLZOO](https://sqlzoo.net/wiki/AdventureWorks_medium_questions) for the challenges to complete. I have SQL Server Management Studio installed on my laptop and I have downloaded the BAK file AdventureWorksLT2019.bak to follow along with the exercises. I am able to run the queries within the SQL Server Management Studio environment and then run the query again in [AdventureWorks medium questions - SQLZOO](https://sqlzoo.net/wiki/AdventureWorks_medium_questions) to see if the query I had run was correct. Attached to this repository is the BAK file, code snippets of the code ran when executing the queries, and the result I gathered from the query.

Challenge:

**A "Single Item Order" is a customer order where only one item is ordered. Show the SalesOrderID and the UnitPrice for every Single Item Order.**

Syntax:

SELECT SalesOrderID, UnitPrice, OrderQty

FROM SalesLT.SalesOrderDetail

WHERE OrderQty = 1

Result:

SalesOrderID UnitPrice OrderQty

71774 356.898 1

71774 356.898 1

71776 63.90 1

71780 323.994 1

71780 149.874 1

71780 809.76 1

71780 48.594 1

71780 112.998 1

71780 323.994 1

71780 72.162 1

71780 149.874 1

71780 32.994 1

71782 1430.442 1

71782 445.41 1

71782 1430.442 1

71782 63.90 1

71782 32.394 1

71782 728.91 1

71782 1430.442 1

71782 445.41 1

71782 728.91 1

71782 31.584 1

71782 200.052 1

71782 602.346 1

71782 602.346 1

71782 14.694 1

71783 72.162 1

71783 356.898 1

71783 672.294 1

71783 672.294 1

71783 672.294 1

71783 5.394 1

71784 445.41 1

71784 200.052 1

71784 602.346 1

71796 602.346 1

71796 31.584 1

71796 728.91 1

71796 1430.442 1

71796 54.942 1

71796 200.052 1

71796 200.052 1

71796 602.346 1

71797 29.994 1

71797 202.332 1

71797 858.90 1

71797 38.10 1

71815 202.332 1

71816 728.91 1

71816 1430.442 1

71816 445.41 1

71816 63.90 1

71831 1376.994 1

71832 41.994 1

71832 72.162 1

71832 461.694 1

71832 16.272 1

71832 48.594 1

71832 37.254 1

71832 818.70 1

71832 31.584 1

71832 1391.994 1

71832 1391.994 1

71832 26.724 1

71832 37.152 1

71832 149.874 1

71832 158.43 1

71845 54.894 1

71845 818.70 1

71845 242.994 1

71845 37.152 1

71845 26.724 1

71846 818.70 1

71846 112.998 1

71856 445.41 1

71856 54.894 1

71858 445.41 1

71858 728.91 1

71858 1430.442 1

71858 12.144 1

71858 54.894 1

71858 728.91 1

71858 4.77 1

71858 445.41 1

71858 1430.442 1

71863 1020.594 1

71863 20.994 1

71867 858.90 1

71897 1430.442 1

71897 38.10 1

71897 63.90 1

71898 1430.442 1

71898 445.41 1

71898 445.41 1

71898 602.346 1

71898 1430.442 1

71898 63.90 1

71898 12.144 1

71899 112.998 1

71899 461.694 1

71899 809.76 1

71899 26.724 1

71899 48.594 1

71902 218.454 1

71902 112.998 1

71902 149.874 1

71902 323.994 1

71902 72.162 1

71902 149.874 1

71902 323.994 1

71902 37.254 1

71902 31.584 1

71902 112.998 1

71915 48.594 1

71920 1020.594 1

71920 1020.594 1

71920 72.00 1

71923 2.994 1

71935 24.294 1

71935 323.994 1

71936 20.994 1

71936 149.874 1

71936 112.998 1

71936 158.43 1

71938 72.162 1

71938 5.394 1

71938 32.394 1

71946 31.584 1

Challenge:

**Where did the racing socks go? List the product name and the CompanyName for all Customers who ordered ProductModel 'Racing Socks'.**

Syntax:

use AdventureWorksLT2019

GO

--SalesLT

-- SELECT \* FROM SalesLT.SalesOrderHeader shows customerID and SalesOrderID

-- SELECT \* FROM SalesLT.SalesOrderDetail shows SalesOrderID and ProductID

--SELECT Name FROM SalesLT.Product

--WHERE Name LIKE 'Racing Socks%' shows there is two types of racing socks available

SELECT

SalesLT.Customer.CompanyName,

SalesLT.Product.Name

FROM SalesLT.Customer

LEFT JOIN SalesLT.SalesOrderHeader ON

SalesLT.Customer.CustomerID = SalesLT.SalesOrderHeader.CustomerID

LEFT JOIN SalesLT.SalesOrderDetail ON

SalesLT.SalesOrderHeader.SalesOrderID = SalesLT.SalesOrderDetail.SalesOrderID

LEFT JOIN SalesLT.Product ON

SalesLT.SalesOrderDetail.ProductID = SalesLT.Product.ProductID

WHERE SalesLT.Product.Name LIKE 'Racing Socks%'

Result:

CompanyName Name

Eastside Department Store Racing Socks, L

Riding Cycles Racing Socks, L

Sports Products Store Racing Socks, L

Essential Bike Works Racing Socks, L

The Bicycle Accessories Company Racing Socks, L

Remarkable Bike Store Racing Socks, L

Bulk Discount Store Racing Socks, L

Thrifty Parts and Sales Racing Socks, M

Sports Products Store Racing Socks, M

The Bicycle Accessories Company Racing Socks, M

Remarkable Bike Store Racing Socks, M

Bulk Discount Store Racing Socks, M

Challenge:

**Show the product description for culture 'fr' for product with ProductID 736.**

Syntax:

use AdventureWorksLT2019

GO

-- SELECT \* FROM SalesLT.Product contains product, product ID,

--ProductCategoryID, ProductModelID

-- SELECT \* FROM SalesLT.ProductDescription contains product description and product description id

-- SELECT \* FROM SalesLT.ProductCategory contains product categoryID, ParentProductCategoryID

-- SELECT \* FROM SalesLT.ProductModel contains ProductModelID

-- SELECT \* FROM SalesLT.ProductModelProductDescription contains both the ProductModelID, ProductDescriptionID,

--culture

-- need description, cultureFR and ProductID 736

SELECT

SalesLT.Product.ProductID,

SalesLT.ProductDescription.Description,

SalesLT.ProductModelProductDescription.Culture

FROM

SalesLT.Product

LEFT JOIN SalesLT.ProductModelProductDescription ON

SalesLT.Product.ProductModelID = SalesLT.ProductModelProductDescription.ProductModelID

LEFT JOIN SalesLT.ProductDescription ON

SalesLT.ProductModelProductDescription.ProductDescriptionID = SalesLT.ProductDescription.ProductDescriptionID

WHERE SalesLT.Product.ProductID = 736 AND SalesLT.ProductModelProductDescription.Culture = 'FR'

Result:

ProductID Description Culture

736 Le cadre LL en aluminium offre une conduite confortable, une excellente absorption des bosses pour un très bon rapport qualité-prix. fr

Challenge:

**Use the SubTotal value in SaleOrderHeader to list orders from the largest to the smallest. For each order show the CompanyName and the SubTotal and the total weight of the order.**

Syntax:

use AdventureWorksLT2019

GO

--Subtotal in SalesOrderHeader largest to smallet

--For each order, show CompanyName, and the total weight

-- SELECT \* FROM SalesLT.SalesOrderHeader contains SalesOrderID, CustomerID and subtotal

-- SELECT \* FROM SalesLT.Customer contains CompanyName and CustomerID

-- SELECT \* FROM SalesLT.Product contains weight and productID

-- SELECT \* FROM SalesLT.SalesOrderDetail contains product ID and salesOrderID

SELECT

SalesLT.SalesOrderHeader.SubTotal,

SalesLT.Customer.CompanyName,

SalesLT.Product.Weight

FROM SalesLT.SalesOrderHeader

LEFT JOIN SalesLT.Customer ON

SalesLT.Customer.CustomerID = SalesLT.SalesOrderHeader.CustomerID

LEFT JOIN SalesLT.SalesOrderDetail ON

SalesLT.SalesOrderDetail.SalesOrderID = SalesLT.SalesOrderHeader.SalesOrderID

LEFT JOIN SalesLT.Product ON

SalesLT.Product.ProductID = SalesLT.SalesOrderDetail.ProductID

ORDER BY SalesLT.SalesOrderHeader.SubTotal DESC

Result:

SubTotal CompanyName Weight

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists 1397.06

108561.8317 Action Bicycle Specialists 11398.72

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists 12305.90

108561.8317 Action Bicycle Specialists 13562.34

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists 12555.37

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists 13607.70

108561.8317 Action Bicycle Specialists 13462.55

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists 1369.84

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists 1378.91

108561.8317 Action Bicycle Specialists 13213.08

108561.8317 Action Bicycle Specialists 1406.13

108561.8317 Action Bicycle Specialists 11747.98

108561.8317 Action Bicycle Specialists 13213.08

108561.8317 Action Bicycle Specialists 13049.78

108561.8317 Action Bicycle Specialists 13344.62

108561.8317 Action Bicycle Specialists 12655.16

108561.8317 Action Bicycle Specialists 11398.72

108561.8317 Action Bicycle Specialists 11530.26

108561.8317 Action Bicycle Specialists 11747.98

108561.8317 Action Bicycle Specialists 11530.26

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists 1424.27

108561.8317 Action Bicycle Specialists 1406.13

108561.8317 Action Bicycle Specialists 1397.06

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

108561.8317 Action Bicycle Specialists NULL

98278.691 Metropolitan Bicycle Supply 1306.34

98278.691 Metropolitan Bicycle Supply 12596.19

98278.691 Metropolitan Bicycle Supply 170.00

98278.691 Metropolitan Bicycle Supply NULL

98278.691 Metropolitan Bicycle Supply 1360.77

98278.691 Metropolitan Bicycle Supply NULL

98278.691 Metropolitan Bicycle Supply 12891.03

98278.691 Metropolitan Bicycle Supply 575.00

98278.691 Metropolitan Bicycle Supply 10781.83

98278.691 Metropolitan Bicycle Supply 1274.59

98278.691 Metropolitan Bicycle Supply 1215.62

98278.691 Metropolitan Bicycle Supply NULL

98278.691 Metropolitan Bicycle Supply 218.00

98278.691 Metropolitan Bicycle Supply 88.00

98278.691 Metropolitan Bicycle Supply 1324.48

98278.691 Metropolitan Bicycle Supply 10781.83

98278.691 Metropolitan Bicycle Supply 10945.13

98278.691 Metropolitan Bicycle Supply 1215.62

98278.691 Metropolitan Bicycle Supply 12142.60

98278.691 Metropolitan Bicycle Supply 215.00

98278.691 Metropolitan Bicycle Supply 10591.33

98278.691 Metropolitan Bicycle Supply 10591.33

98278.691 Metropolitan Bicycle Supply NULL

98278.691 Metropolitan Bicycle Supply NULL

98278.691 Metropolitan Bicycle Supply 600.00

98278.691 Metropolitan Bicycle Supply 185.00

98278.691 Metropolitan Bicycle Supply NULL

98278.691 Metropolitan Bicycle Supply 1324.48

98278.691 Metropolitan Bicycle Supply 223.00

98278.691 Metropolitan Bicycle Supply 12405.69

98278.691 Metropolitan Bicycle Supply NULL

98278.691 Metropolitan Bicycle Supply 317.00

98278.691 Metropolitan Bicycle Supply 1342.63

98278.691 Metropolitan Bicycle Supply NULL

98278.691 Metropolitan Bicycle Supply 1342.63

98278.691 Metropolitan Bicycle Supply 1233.76

98278.691 Metropolitan Bicycle Supply 1233.76

98278.691 Metropolitan Bicycle Supply 12891.03

98278.691 Metropolitan Bicycle Supply NULL

98278.691 Metropolitan Bicycle Supply 1256.44

98278.691 Metropolitan Bicycle Supply 10945.13

98278.691 Metropolitan Bicycle Supply NULL

98278.691 Metropolitan Bicycle Supply 13008.96

98278.691 Metropolitan Bicycle Supply 1288.20

98278.691 Metropolitan Bicycle Supply 215.00

98278.691 Metropolitan Bicycle Supply NULL

88812.8625 Bulk Discount Store 6962.61

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store 1043.26

88812.8625 Bulk Discount Store 7153.11

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store 189.00

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store 149.00

88812.8625 Bulk Discount Store 7162.19

88812.8625 Bulk Discount Store 7447.95

88812.8625 Bulk Discount Store 8060.29

88812.8625 Bulk Discount Store 8223.59

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store 9262.31

88812.8625 Bulk Discount Store 9130.77

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store 7112.29

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store 1088.62

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store 8967.47

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store 6994.36

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store 7316.41

88812.8625 Bulk Discount Store 6699.52

88812.8625 Bulk Discount Store 7869.79

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store 9430.14

88812.8625 Bulk Discount Store 8473.06

88812.8625 Bulk Discount Store 6862.82

88812.8625 Bulk Discount Store 168.00

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store NULL

88812.8625 Bulk Discount Store 8355.13

83858.4261 Eastside Department Store 1088.62

83858.4261 Eastside Department Store 168.00

83858.4261 Eastside Department Store 6699.52

83858.4261 Eastside Department Store 9430.14

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store 7447.95

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store 988.83

83858.4261 Eastside Department Store 8223.59

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store 189.00

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store 1115.83

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store 9130.77

83858.4261 Eastside Department Store 9262.31

83858.4261 Eastside Department Store 7869.79

83858.4261 Eastside Department Store 8060.29

83858.4261 Eastside Department Store 8473.06

83858.4261 Eastside Department Store 6962.61

83858.4261 Eastside Department Store 7153.11

83858.4261 Eastside Department Store 149.00

83858.4261 Eastside Department Store 1043.26

83858.4261 Eastside Department Store 1061.40

83858.4261 Eastside Department Store 961.61

83858.4261 Eastside Department Store 961.61

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

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83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

83858.4261 Eastside Department Store NULL

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles 961.61

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles 149.00

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles 1088.62

78029.6898 Riding Cycles 1115.83

78029.6898 Riding Cycles 1043.26

78029.6898 Riding Cycles 961.61

78029.6898 Riding Cycles NULL

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78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles 9430.14

78029.6898 Riding Cycles 8060.29

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles 168.00

78029.6898 Riding Cycles 8473.06

78029.6898 Riding Cycles 9130.77

78029.6898 Riding Cycles 9262.31

78029.6898 Riding Cycles 189.00

78029.6898 Riding Cycles 6862.82

78029.6898 Riding Cycles 6994.36

78029.6898 Riding Cycles 7869.79

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles 7447.95

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles 6699.52

78029.6898 Riding Cycles 7153.11

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles 6962.61

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles 1043.26

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles 1061.40

78029.6898 Riding Cycles NULL

78029.6898 Riding Cycles 988.83

74058.8078 Many Bikes Store 10781.83

74058.8078 Many Bikes Store 12142.60

74058.8078 Many Bikes Store 1256.44

74058.8078 Many Bikes Store 12891.03

74058.8078 Many Bikes Store 10781.83

74058.8078 Many Bikes Store 10945.13

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store 1342.63

74058.8078 Many Bikes Store 185.00

74058.8078 Many Bikes Store 12891.03

74058.8078 Many Bikes Store 11952.10

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store 218.00

74058.8078 Many Bikes Store 12405.69

74058.8078 Many Bikes Store 12405.69

74058.8078 Many Bikes Store 12305.90

74058.8078 Many Bikes Store 10591.33

74058.8078 Many Bikes Store 10945.13

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store 1360.77

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store 13008.96

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store 13008.96

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store 215.00

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store 10591.33

74058.8078 Many Bikes Store 12759.49

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store 12596.19

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store 12759.49

74058.8078 Many Bikes Store 1215.62

74058.8078 Many Bikes Store NULL

74058.8078 Many Bikes Store 1342.63

74058.8078 Many Bikes Store 1274.59

74058.8078 Many Bikes Store 12437.44

74058.8078 Many Bikes Store NULL

63980.9884 Instruments and Parts Company 11747.98

63980.9884 Instruments and Parts Company 13049.78

63980.9884 Instruments and Parts Company 170.00

63980.9884 Instruments and Parts Company 11530.26

63980.9884 Instruments and Parts Company 12305.90

63980.9884 Instruments and Parts Company 11648.19

63980.9884 Instruments and Parts Company 13607.70

63980.9884 Instruments and Parts Company 223.00

63980.9884 Instruments and Parts Company 13562.34

63980.9884 Instruments and Parts Company 11648.19

63980.9884 Instruments and Parts Company 11398.72

63980.9884 Instruments and Parts Company 12555.37

63980.9884 Instruments and Parts Company 600.00

63980.9884 Instruments and Parts Company 13462.55

63980.9884 Instruments and Parts Company 88.00

63980.9884 Instruments and Parts Company 12437.44

63980.9884 Instruments and Parts Company 12655.16

63980.9884 Instruments and Parts Company 1378.91

63980.9884 Instruments and Parts Company 11530.26

63980.9884 Instruments and Parts Company 13512.45

63980.9884 Instruments and Parts Company NULL

63980.9884 Instruments and Parts Company 317.00

63980.9884 Instruments and Parts Company 13213.08

63980.9884 Instruments and Parts Company 575.00

63980.9884 Instruments and Parts Company 11398.72

63980.9884 Instruments and Parts Company NULL

63980.9884 Instruments and Parts Company 13607.70

63980.9884 Instruments and Parts Company 13049.78

57634.6342 Extreme Riding Supplies 1360.77

57634.6342 Extreme Riding Supplies 12555.37

57634.6342 Extreme Riding Supplies 12655.16

57634.6342 Extreme Riding Supplies NULL

57634.6342 Extreme Riding Supplies 13462.55

57634.6342 Extreme Riding Supplies 11747.98

57634.6342 Extreme Riding Supplies 11747.98

57634.6342 Extreme Riding Supplies 11530.26

57634.6342 Extreme Riding Supplies 13213.08

57634.6342 Extreme Riding Supplies 13049.78

57634.6342 Extreme Riding Supplies 13607.70

57634.6342 Extreme Riding Supplies 12305.90

57634.6342 Extreme Riding Supplies 11398.72

57634.6342 Extreme Riding Supplies 11530.26

57634.6342 Extreme Riding Supplies NULL

57634.6342 Extreme Riding Supplies 1369.84

57634.6342 Extreme Riding Supplies 1406.13

57634.6342 Extreme Riding Supplies 1378.91

57634.6342 Extreme Riding Supplies 1397.06

57634.6342 Extreme Riding Supplies 1397.06

41622.0511 Trailblazing Sports 13008.96

41622.0511 Trailblazing Sports 317.00

41622.0511 Trailblazing Sports 1256.44

41622.0511 Trailblazing Sports 1288.20

41622.0511 Trailblazing Sports 10781.83

41622.0511 Trailblazing Sports 88.00

41622.0511 Trailblazing Sports 600.00

41622.0511 Trailblazing Sports 185.00

41622.0511 Trailblazing Sports NULL

41622.0511 Trailblazing Sports 1215.62

41622.0511 Trailblazing Sports 1274.59

41622.0511 Trailblazing Sports 10945.13

41622.0511 Trailblazing Sports NULL

41622.0511 Trailblazing Sports 10781.83

41622.0511 Trailblazing Sports 10945.13

41622.0511 Trailblazing Sports 575.00

41622.0511 Trailblazing Sports 1215.62

41622.0511 Trailblazing Sports NULL

41622.0511 Trailblazing Sports 1378.91

41622.0511 Trailblazing Sports 1233.76

41622.0511 Trailblazing Sports NULL

41622.0511 Trailblazing Sports 1306.34

41622.0511 Trailblazing Sports NULL

41622.0511 Trailblazing Sports NULL

41622.0511 Trailblazing Sports 1342.63

41622.0511 Trailblazing Sports 10591.33

41622.0511 Trailblazing Sports NULL

41622.0511 Trailblazing Sports 170.00

41622.0511 Trailblazing Sports 10591.33

41622.0511 Trailblazing Sports 1324.48

41622.0511 Trailblazing Sports NULL

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service 11648.19

39785.3304 Professional Sales and Service 11398.72

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service 170.00

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service 13562.34

39785.3304 Professional Sales and Service 12437.44

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service 13049.78

39785.3304 Professional Sales and Service 11530.26

39785.3304 Professional Sales and Service 317.00

39785.3304 Professional Sales and Service 223.00

39785.3304 Professional Sales and Service 12305.90

39785.3304 Professional Sales and Service 11398.72

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service 1397.06

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service 215.00

39785.3304 Professional Sales and Service 11747.98

39785.3304 Professional Sales and Service 11530.26

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service 13049.78

39785.3304 Professional Sales and Service 13213.08

39785.3304 Professional Sales and Service 13462.55

39785.3304 Professional Sales and Service 13344.62

39785.3304 Professional Sales and Service 12655.16

39785.3304 Professional Sales and Service 11648.19

39785.3304 Professional Sales and Service 575.00

39785.3304 Professional Sales and Service 88.00

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service 1451.49

39785.3304 Professional Sales and Service 1378.91

39785.3304 Professional Sales and Service 1397.06

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service NULL

39785.3304 Professional Sales and Service NULL

38418.6895 Nearby Cycle Shop 1274.59

38418.6895 Nearby Cycle Shop 12437.44

38418.6895 Nearby Cycle Shop 13008.96

38418.6895 Nearby Cycle Shop 1215.62

38418.6895 Nearby Cycle Shop 12596.19

38418.6895 Nearby Cycle Shop 1360.77

38418.6895 Nearby Cycle Shop 1233.76

38418.6895 Nearby Cycle Shop 10591.33

38418.6895 Nearby Cycle Shop 1342.63

38418.6895 Nearby Cycle Shop 10781.83

38418.6895 Nearby Cycle Shop 185.00

38418.6895 Nearby Cycle Shop NULL

38418.6895 Nearby Cycle Shop 12596.19

38418.6895 Nearby Cycle Shop 12405.69

38418.6895 Nearby Cycle Shop 12759.49

38418.6895 Nearby Cycle Shop 12891.03

38418.6895 Nearby Cycle Shop 13008.96

38418.6895 Nearby Cycle Shop 12405.69

38418.6895 Nearby Cycle Shop 12759.49

38418.6895 Nearby Cycle Shop 12891.03

38418.6895 Nearby Cycle Shop 12142.60

38418.6895 Nearby Cycle Shop 12305.90

38418.6895 Nearby Cycle Shop 10781.83

38418.6895 Nearby Cycle Shop NULL

38418.6895 Nearby Cycle Shop NULL

38418.6895 Nearby Cycle Shop 218.00

38418.6895 Nearby Cycle Shop 1342.63

38418.6895 Nearby Cycle Shop NULL

38418.6895 Nearby Cycle Shop NULL

35775.2113 Closest Bicycle Store 1342.63

35775.2113 Closest Bicycle Store 12437.44

35775.2113 Closest Bicycle Store 10945.13

35775.2113 Closest Bicycle Store NULL

35775.2113 Closest Bicycle Store NULL

35775.2113 Closest Bicycle Store 11952.10

35775.2113 Closest Bicycle Store 1342.63

35775.2113 Closest Bicycle Store 12596.19

35775.2113 Closest Bicycle Store NULL

35775.2113 Closest Bicycle Store NULL

35775.2113 Closest Bicycle Store 10591.33

35775.2113 Closest Bicycle Store 185.00

35775.2113 Closest Bicycle Store 215.00

35775.2113 Closest Bicycle Store 1233.76

35775.2113 Closest Bicycle Store 1256.44

35775.2113 Closest Bicycle Store 1215.62

35775.2113 Closest Bicycle Store NULL

35775.2113 Closest Bicycle Store 10945.13

35775.2113 Closest Bicycle Store 12596.19

35775.2113 Closest Bicycle Store 12891.03

35775.2113 Closest Bicycle Store 12405.69

35775.2113 Closest Bicycle Store 10591.33

35775.2113 Closest Bicycle Store 10781.83

35775.2113 Closest Bicycle Store 1306.34

35775.2113 Closest Bicycle Store NULL

35775.2113 Closest Bicycle Store NULL

35775.2113 Closest Bicycle Store 218.00

35775.2113 Closest Bicycle Store 1360.77

35775.2113 Closest Bicycle Store 1324.48

35775.2113 Closest Bicycle Store 1378.91

13823.7083 Thrilling Bike Tours 13213.08

13823.7083 Thrilling Bike Tours 13213.08

13823.7083 Thrilling Bike Tours 12655.16

13823.7083 Thrilling Bike Tours NULL

13823.7083 Thrilling Bike Tours NULL

13823.7083 Thrilling Bike Tours 11747.98

13823.7083 Thrilling Bike Tours 13607.70

13823.7083 Thrilling Bike Tours NULL

13823.7083 Thrilling Bike Tours 317.00

13823.7083 Thrilling Bike Tours 88.00

13823.7083 Thrilling Bike Tours 12555.37

13823.7083 Thrilling Bike Tours NULL

13823.7083 Thrilling Bike Tours 13462.55

13823.7083 Thrilling Bike Tours 11747.98

13823.7083 Thrilling Bike Tours 13049.78

13823.7083 Thrilling Bike Tours 11398.72

13823.7083 Thrilling Bike Tours NULL

12685.8899 Paints and Solvents Company 11398.72

12685.8899 Paints and Solvents Company 13213.08

12685.8899 Paints and Solvents Company 11747.98

12685.8899 Paints and Solvents Company NULL

12685.8899 Paints and Solvents Company NULL

12685.8899 Paints and Solvents Company 11398.72

12685.8899 Paints and Solvents Company NULL

12685.8899 Paints and Solvents Company 317.00

6634.2961 Remarkable Bike Store NULL

6634.2961 Remarkable Bike Store 189.00

6634.2961 Remarkable Bike Store 6962.61

6634.2961 Remarkable Bike Store 7447.95

6634.2961 Remarkable Bike Store 9130.77

6634.2961 Remarkable Bike Store NULL

3398.1659 Engineered Bike Systems 12655.16

3398.1659 Engineered Bike Systems 11398.72

3398.1659 Engineered Bike Systems NULL

3398.1659 Engineered Bike Systems NULL

3398.1659 Engineered Bike Systems NULL

3398.1659 Engineered Bike Systems 13049.78

3398.1659 Engineered Bike Systems 317.00

3324.2759 Sports Products Store NULL

3324.2759 Sports Products Store NULL

3324.2759 Sports Products Store 9130.77

3324.2759 Sports Products Store 6962.61

3324.2759 Sports Products Store NULL

3324.2759 Sports Products Store 9262.31

3324.2759 Sports Products Store 189.00

2980.7929 Discount Tours 6962.61

2980.7929 Discount Tours 189.00

2980.7929 Discount Tours 7447.95

2980.7929 Discount Tours NULL

2980.7929 Discount Tours NULL

2980.7929 Discount Tours NULL

2453.7645 Sports Store 215.00

2453.7645 Sports Store 1233.76

2453.7645 Sports Store 12405.69

2453.7645 Sports Store 12142.60

2415.6727 Coalition Bike Company NULL

2415.6727 Coalition Bike Company 13008.96

2415.6727 Coalition Bike Company 12142.60

2415.6727 Coalition Bike Company 1233.76

2415.6727 Coalition Bike Company NULL

2415.6727 Coalition Bike Company NULL

2415.6727 Coalition Bike Company 1306.34

2415.6727 Coalition Bike Company 185.00

2137.231 Aerobic Exercise Company 1061.40

2137.231 Aerobic Exercise Company 1088.62

2137.231 Aerobic Exercise Company 189.00

2137.231 Aerobic Exercise Company 168.00

2137.231 Aerobic Exercise Company 149.00

2016.3408 Tachometers and Accessories NULL

2016.3408 Tachometers and Accessories 10591.33

2016.3408 Tachometers and Accessories NULL

1141.5782 Thrifty Parts and Sales 1088.62

1141.5782 Thrifty Parts and Sales 1043.26

1141.5782 Thrifty Parts and Sales NULL

1059.31 Vigorous Sports Store 1043.26

880.3484 Good Toys 1061.40

880.3484 Good Toys 988.83

602.1946 Transport Bikes 13213.08

602.1946 Transport Bikes 88.00

550.386 Channel Outlet NULL

550.386 Channel Outlet NULL

550.386 Channel Outlet NULL

246.7392 Futuristic Bikes NULL

246.7392 Futuristic Bikes NULL

246.7392 Futuristic Bikes NULL

106.5408 The Bicycle Accessories Company NULL

106.5408 The Bicycle Accessories Company NULL

106.5408 The Bicycle Accessories Company NULL

78.81 West Side Mart 317.00

40.9045 Essential Bike Works NULL

38.9536 Central Bicycle Specialists NULL

Challenge:

**How many products in ProductCategory 'Cranksets' have been sold to an address in 'London'?**

Syntax:

use AdventureWorksLT2019

GO

--How many products in ProductCategory 'Cranksets' have been sold to an address in 'London'?

-- SalesLT.ProductCategory contains ProductCategoryID, ParentProductCategoryID, Cranksets

-- SalesLT.Product contains ProductCategoryID, ProductID

-- salesOrderDetail contains salesOrderID ProductID

-- SalesOrderHeader contains customerID and salesOrderID

-- CustomerAddress contains customerID

-- Address contains customerID

--SELECT \* FROM SalesLT.SalesOrderDetail "name"

SELECT

COUNT(SalesLT.ProductCategory.Name)

FROM SalesLT.ProductCategory

FULL OUTER JOIN SalesLT.Product ON

SalesLT.ProductCategory.ProductCategoryID = SalesLT.Product.ProductCategoryID

FULL OUTER JOIN SalesLT.SalesOrderDetail ON

SalesLT.Product.ProductID = SalesLT.SalesOrderDetail.ProductID

FULL OUTER JOIN SalesLT.SalesOrderHeader ON

SalesLT.SalesOrderDetail.SalesOrderID = SalesLT.SalesOrderHeader.SalesOrderID

FULL OUTER JOIN SalesLT.CustomerAddress ON

SalesLT.SalesOrderHeader.CustomerID = SalesLT.CustomerAddress.CustomerID

FULL OUTER JOIN SalesLT.Address ON

SalesLT.CustomerAddress.AddressID = SalesLT.Address.AddressID

WHERE SalesLT.Address.City = 'London' AND SalesLT.ProductCategory.Name = 'Cranksets'

Result:

2