### show products, suppliers, sum of stocks using joins

| Supplier ID | CompanyName                | Product Name               |     |
|-------------|----------------------------|----------------------------|-----|
| 1           | Exotic Liquids             | Aniseed Syrup              | 13  |
|             |                            | Chai                       | 39  |
|             |                            | Chang                      | 17  |
| 2           | New Orleans Cajun          | Chef Anton's Cajun Seaso   | 53  |
|             | Delights                   | Chef Anton's Gumbo Mix     | 0   |
|             |                            | Louisiana Fiery Hot Peppe  | 76  |
|             |                            | Louisiana Hot Spiced Okra  | 4   |
| 3           | Grandma Kelly's            | Grandma's Boysenberry S    | 120 |
|             | Homestead                  | Northwoods Cranberry Sa    | 6   |
|             |                            | Uncle Bob's Organic Dried  | 15  |
| 4           | Tokyo Traders              | Ikura                      | 31  |
|             |                            | Longlife Tofu              | 4   |
|             |                            | Mishi Kobe Niku            | 29  |
| 5           | Cooperativa de Quesos 'Las | Queso Cabrales             | 22  |
|             | Cabras'                    | Queso Manchego La Pasto    | 86  |
| 6           | Mayumi's                   | Genen Shouyu               | 39  |
|             |                            | Konbu                      | 24  |
|             |                            | Tofu                       | 35  |
| 7           | Pavlova, Ltd.              | Alice Mutton               | 0   |
|             |                            | Carnarvon Tigers           | 42  |
|             |                            | Outback Lager              | 15  |
|             |                            | Pavlova                    | 29  |
|             |                            | Vegie-spread               | 24  |
| 8           | Specialty Biscuits, Ltd.   | Scottish Longbreads        | 6   |
|             |                            | Sir Rodney's Marmalade     | 40  |
|             |                            | Sir Rodney's Scones        | 3   |
|             |                            | Teatime Chocolate Biscuits | 25  |
| 9           | PB Knäckebröd AB           | Gustaf's Knäckebröd        | 104 |
|             |                            | Tunnbröd                   | 61  |
| 10          | Refrescos Americanas LT    | Guaraná Fantástica         | 20  |
| 11          | Heli Süßwaren GmbH & Co.   | Gumbär Gummibärchen        | 15  |
|             | KG                         | NuNuCa Nuß-Nougat-Cre      | 76  |
|             |                            | Schoggi Schokolade         | 49  |
| 12          | Plutzer                    | Original Frankfurter grün  | 32  |
|             | Lebensmittelgroßmärkte     | Rhönbräu Klosterbier       | 125 |
|             | AG                         | Rössle Sauerkraut          | 26  |
|             |                            | Thüringer Rostbratwurst    | 0   |
|             |                            | Wimmers gute Semmelkn      | 22  |
| 13          | Nord-Ost-Fisch Handelsge   | Nord-Ost Matjeshering      | 10  |
| 14          | Formaggi Fortini s.r.l.    | Gorgonzola Telino          | 0   |
|             |                            | Mascarpone Fabioli         | 9   |
|             |                            | Mozzarella di Giovanni     | 14  |
| 15          | Norske Meierier            | Fløtemysost                | 26  |

### show products, suppliers, sum of stocks using joins

| Supplier ID | CompanyName                | Product Name              |     |
|-------------|----------------------------|---------------------------|-----|
| 15          | Norske Meierier            | Geitost                   | 112 |
|             |                            | Gudbrandsdalsost          | 26  |
| 16          | Bigfoot Breweries          | Laughing Lumberjack Lager | 52  |
|             |                            | Sasquatch Ale             | 111 |
|             |                            | Steeleye Stout            | 20  |
| 17          | Svensk Sjöföda AB          | Gravad lax                | 11  |
|             |                            | Inlagd Sill               | 112 |
|             |                            | Röd Kaviar                | 101 |
| 18          | Aux joyeux ecclésiastiques | Chartreuse verte          | 69  |
|             |                            | Côte de Blaye             | 17  |
| 19          | New England Seafood        | Boston Crab Meat          | 123 |
|             | Cannery                    | Jack's New England Clam   | 85  |
| 20          | Leka Trading               | Gula Malacca              | 27  |
|             |                            | Ipoh Coffee               | 17  |
|             |                            | Singaporean Hokkien Frie  | 26  |
| 21          | Lyngbysild                 | Røgede sild               | 5   |
|             |                            | Spegesild                 | 95  |
| 22          | Zaanse Snoepfabriek        | Chocolade                 | 15  |
|             |                            | Zaanse koeken             | 36  |
| 23          | Karkki Oy                  | Lakkalikööri              | 57  |
|             |                            | Maxilaku                  | 10  |
|             |                            | Valkoinen suklaa          | 65  |
| 24          | G'day, Mate                | Filo Mix                  | 38  |
|             |                            | Manjimup Dried Apples     | 20  |
|             |                            | Perth Pasties             | 0   |
| 25          | Ma Maison                  | Pâté chinois              | 115 |
|             |                            | Tourtière                 | 21  |
| 26          | Pasta Buttini s.r.l.       | Gnocchi di nonna Alice    | 21  |
|             |                            | Ravioli Angelo            | 36  |
| 27          | Escargots Nouveaux         | Escargots de Bourgogne    | 62  |
| 28          | Gai pâturage               | Camembert Pierrot         | 19  |
|             |                            | Raclette Courdavault      | 79  |
| 29          | Forêts d'érables           | Sirop d'érable            | 113 |
|             |                            | Tarte au sucre            | 17  |

### show products, shipping owners, sum of stocks using blending

| Owner Name | Product Name              |     |
|------------|---------------------------|-----|
| Null       | Alice Mutton              | 0   |
|            | Boston Crab Meat          | 123 |
|            | Camembert Pierrot         | 19  |
|            | Carnarvon Tigers          | 42  |
|            | Chartreuse verte          | 69  |
|            | Chocolade                 | 15  |
|            | Côte de Blaye             | 17  |
|            | Escargots de Bourgogne    | 62  |
|            | Filo Mix                  | 38  |
|            | Fløtemysost               | 26  |
|            | Geitost                   | 112 |
|            | Genen Shouyu              | 39  |
|            | Gnocchi di nonna Alice    | 21  |
|            | Gorgonzola Telino         | 0   |
|            | Gravad lax                | 11  |
|            | Guaraná Fantástica        | 20  |
|            | Gudbrandsdalsost          | 26  |
|            | Gula Malacca              | 27  |
|            | Gumbär Gummibärchen       | 15  |
|            | Gustaf's Knäckebröd       | 104 |
|            | Ikura                     | 31  |
|            | Inlagd Sill               | 112 |
|            | Ipoh Coffee               | 17  |
|            | Jack's New England Clam   | 85  |
|            | Konbu                     | 24  |
|            | Lakkalikööri              | 57  |
|            | Laughing Lumberjack Lager | 52  |
|            | Longlife Tofu             | 4   |
|            | Manjimup Dried Apples     | 20  |
|            | Mascarpone Fabioli        | 9   |
|            | Maxilaku                  | 10  |
|            | Mishi Kobe Niku           | 29  |
|            | Mozzarella di Giovanni    | 14  |
|            | Nord-Ost Matjeshering     | 10  |
|            | NuNuCa Nuß-Nougat-Cre     | 76  |
|            | Original Frankfurter grün | 32  |
|            | Outback Lager             | 15  |
|            | Pâté chinois              | 115 |
|            | Pavlova                   | 29  |
|            | Perth Pasties             | 0   |
|            | Queso Cabrales            | 22  |
|            | Queso Manchego La Pasto   | 86  |

## show products, shipping owners, sum of stocks using blending

| Owner Manne | Product Name               |     |
|-------------|----------------------------|-----|
| Null        | Raclette Courdavault       | 79  |
|             | Ravioli Angelo             | 36  |
|             | Rhönbräu Klosterbier       | 125 |
|             | Röd Kaviar                 | 101 |
|             | Røgede sild                | 5   |
|             | Rössle Sauerkraut          | 26  |
|             | Sasquatch Ale              | 111 |
|             | Schoggi Schokolade         | 49  |
|             | Scottish Longbreads        | 6   |
|             | Singaporean Hokkien Frie   | 26  |
|             | Sir Rodney's Marmalade     | 40  |
|             | Sir Rodney's Scones        | 3   |
|             | Sirop d'érable             | 113 |
|             | Spegesild                  | 95  |
|             | Steeleye Stout             | 20  |
|             | Tarte au sucre             | 17  |
|             | Teatime Chocolate Biscuits | 25  |
|             | Thüringer Rostbratwurst    | 0   |
|             | Tofu                       | 35  |
|             | Tourtière                  | 21  |
|             | Tunnbröd                   | 61  |
|             | Valkoinen suklaa           | 65  |
|             | Vegie-spread               | 24  |
|             | Wimmers gute Semmelkn      | 22  |
|             | Zaanse koeken              | 36  |
| Roshan      | Grandma's Boysenberry S    | 120 |
|             | Northwoods Cranberry Sa    | 6   |
|             | Uncle Bob's Organic Dried  | 15  |
| Shamnu      | Aniseed Syrup              | 13  |
|             | Chai                       | 39  |
|             | Chang                      | 17  |
| Shireen     | Chef Anton's Cajun Seaso   | 53  |
|             | Chef Anton's Gumbo Mix     | 0   |
|             | Louisiana Fiery Hot Peppe  | 76  |
|             | Louisiana Hot Spiced Okra  | 4   |

### show products, shipping owners, sum of stocks using multi connections

| Owner Name | Product Name              |     |
|------------|---------------------------|-----|
| Null       | Alice Mutton              | 0   |
|            | Boston Crab Meat          | 123 |
|            | Camembert Pierrot         | 19  |
|            | Carnarvon Tigers          | 42  |
|            | Chartreuse verte          | 69  |
|            | Chocolade                 | 15  |
|            | Côte de Blaye             | 17  |
|            | Escargots de Bourgogne    | 62  |
|            | Filo Mix                  | 38  |
|            | Fløtemysost               | 26  |
|            | Geitost                   | 112 |
|            | Genen Shouyu              | 39  |
|            | Gnocchi di nonna Alice    | 21  |
|            | Gorgonzola Telino         | 0   |
|            | Gravad lax                | 11  |
|            | Guaraná Fantástica        | 20  |
|            | Gudbrandsdalsost          | 26  |
|            | Gula Malacca              | 27  |
|            | Gumbär Gummibärchen       | 15  |
|            | Gustaf's Knäckebröd       | 104 |
|            | Ikura                     | 31  |
|            | Inlagd Sill               | 112 |
|            | Ipoh Coffee               | 17  |
|            | Jack's New England Clam   | 85  |
|            | Konbu                     | 24  |
|            | Lakkalikööri              | 57  |
|            | Laughing Lumberjack Lager | 52  |
|            | Longlife Tofu             | 4   |
|            | Manjimup Dried Apples     | 20  |
|            | Mascarpone Fabioli        | 9   |
|            | Maxilaku                  | 10  |
|            | Mishi Kobe Niku           | 29  |
|            | Mozzarella di Giovanni    | 14  |
|            | Nord-Ost Matjeshering     | 10  |
|            | NuNuCa Nuß-Nougat-Cre     | 76  |
|            | Original Frankfurter grün | 32  |
|            | Outback Lager             | 15  |
|            | Pâté chinois              | 115 |
|            | Pavlova                   | 29  |
|            | Perth Pasties             | 0   |
|            | Queso Cabrales            | 22  |
|            | Queso Manchego La Pasto   | 86  |

### show products, shipping owners, sum of stocks using multi connections

| Owner Name | Product Name               |     |
|------------|----------------------------|-----|
| Null       | Raclette Courdavault       | 79  |
|            | Ravioli Angelo             | 36  |
|            | Rhönbräu Klosterbier       | 125 |
|            | Röd Kaviar                 | 101 |
|            | Røgede sild                | 5   |
|            | Rössle Sauerkraut          | 26  |
|            | Sasquatch Ale              | 111 |
|            | Schoggi Schokolade         | 49  |
|            | Scottish Longbreads        | 6   |
|            | Singaporean Hokkien Frie   | 26  |
|            | Sir Rodney's Marmalade     | 40  |
|            | Sir Rodney's Scones        | 3   |
|            | Sirop d'érable             | 113 |
|            | Spegesild                  | 95  |
|            | Steeleye Stout             | 20  |
|            | Tarte au sucre             | 17  |
|            | Teatime Chocolate Biscuits | 25  |
|            | Thüringer Rostbratwurst    | 0   |
|            | Tofu                       | 35  |
|            | Tourtière                  | 21  |
|            | Tunnbröd                   | 61  |
|            | Valkoinen suklaa           | 65  |
|            | Vegie-spread               | 24  |
|            | Wimmers gute Semmelkn      | 22  |
|            | Zaanse koeken              | 36  |
| Roshan     | Grandma's Boysenberry S    | 120 |
|            | Northwoods Cranberry Sa    | 6   |
|            | Uncle Bob's Organic Dried  | 15  |
| Shamnu     | Aniseed Syrup              | 13  |
|            | Chai                       | 39  |
|            | Chang                      | 17  |
| Shireen    | Chef Anton's Cajun Seaso   | 53  |
|            | Chef Anton's Gumbo Mix     | 0   |
|            | Louisiana Fiery Hot Peppe  | 76  |
|            | Louisiana Hot Spiced Okra  | 4   |

## show products, shipping owners, sum of stocks using inner join

| Roshan  | Grandma's Boysenberry S   | 120 |
|---------|---------------------------|-----|
|         | Northwoods Cranberry Sa   | 6   |
|         | Uncle Bob's Organic Dried | 15  |
| Shamnu  | Aniseed Syrup             | 13  |
|         | Chai                      | 39  |
|         | Chang                     | 17  |
| Shireen | Chef Anton's Cajun Seaso  | 53  |
|         | Chef Anton's Gumbo Mix    | 0   |
|         | Louisiana Fiery Hot Peppe | 76  |
|         | Louisiana Hot Spiced Okra | 4   |

## show all products with shipping owners, sum of stocks using left joins

| Null  Alice Mutton  Boston Crab Meat  Camembert Pierrot  Carnarvon Tigers  Chartreuse verte  Chocolade  Côte de Blaye  Escargots de Bourgogne  Filo Mix  Fløtemysost  Geitost  Genen Shouyu  Gnocchi di nonna Alice  Gorgonzola Telino  Gravad lax  Guaraná Fantástica  Gudbrandsdalsost  Gula Malacca  Gumbär Gummibärchen  Gustaf's Knäckebröd  Ikura | 0<br>123<br>19<br>42<br>69<br>15<br>17<br>62<br>38<br>26 |
|---|--|
| Camembert Pierrot Carnarvon Tigers Chartreuse verte Chocolade Côte de Blaye Escargots de Bourgogne Filo Mix Fløtemysost Geitost Genen Shouyu Gnocchi di nonna Alice Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd   | 19<br>42<br>69<br>15<br>17<br>62<br>38<br>26             |
| Carnarvon Tigers Chartreuse verte Chocolade Côte de Blaye Escargots de Bourgogne Filo Mix Fløtemysost Geitost Genen Shouyu Gnocchi di nonna Alice Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd   | 42<br>69<br>15<br>17<br>62<br>38<br>26                   |
| Chartreuse verte Chocolade Côte de Blaye Escargots de Bourgogne Filo Mix Fløtemysost Geitost Genen Shouyu Gnocchi di nonna Alice Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd  | 69<br>15<br>17<br>62<br>38<br>26                         |
| Chocolade Côte de Blaye Escargots de Bourgogne Filo Mix Fløtemysost Geitost Genen Shouyu Gnocchi di nonna Alice Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd   | 15<br>17<br>62<br>38<br>26                               |
| Côte de Blaye Escargots de Bourgogne Filo Mix Fløtemysost Geitost Genen Shouyu Gnocchi di nonna Alice Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd   | 17<br>62<br>38<br>26                                     |
| Escargots de Bourgogne Filo Mix Fløtemysost Geitost Genen Shouyu Gnocchi di nonna Alice Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd   | 62<br>38<br>26   |
| Filo Mix Fløtemysost Geitost Genen Shouyu Gnocchi di nonna Alice Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd  | 38<br>26   |
| Fløtemysost Geitost Genen Shouyu Gnocchi di nonna Alice Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd   | 26   |
| Geitost Genen Shouyu Gnocchi di nonna Alice Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd   |  |
| Genen Shouyu Gnocchi di nonna Alice Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd   | 112  |
| Gnocchi di nonna Alice Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd  |  |
| Gorgonzola Telino Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd   | 39   |
| Gravad lax Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd   | 21   |
| Guaraná Fantástica Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd  | 0  |
| Gudbrandsdalsost Gula Malacca Gumbär Gummibärchen Gustaf's Knäckebröd   | 11   |
| Gula Malacca<br>Gumbär Gummibärchen<br>Gustaf's Knäckebröd  | 20   |
| Gumbär Gummibärchen<br>Gustaf's Knäckebröd  | 26   |
| Gustaf's Knäckebröd   | 27   |
|   | 15   |
| lkura   | 104  |
|   | 31   |
| Inlagd Sill   | 112  |
| Ipoh Coffee   | 17   |
| Jack's New England Clam   | 85   |
| Konbu   | 24   |
| Lakkalikööri  | 57   |
| Laughing Lumberjack Lager   | 52   |
| Longlife Tofu   | 4  |
| Manjimup Dried Apples   | 20   |
| Mascarpone Fabioli  | 9  |
| Maxilaku  | 10   |
| Mishi Kobe Niku   | 29   |
| Mozzarella di Giovanni  | 14   |
| Nord-Ost Matjeshering   | 10   |
| NuNuCa Nuß-Nougat-Cre   | 76   |
| Original Frankfurter grün   | 32   |
| Outback Lager   | 15   |
| Pâté chinois  | 115  |
| Pavlova   | 29   |
| Perth Pasties   | 0  |
| Queso Cabrales  | 22   |
| Queso Manchego La Pasto   | 22   |

# show all products with shipping owners, sum of stocks using left joins

| Owner Name | Product Name               |     |
|------------|----------------------------|-----|
| Null       | Raclette Courdavault       | 79  |
|            | Ravioli Angelo             | 36  |
|            | Rhönbräu Klosterbier       | 125 |
|            | Röd Kaviar                 | 101 |
|            | Røgede sild                | 5   |
|            | Rössle Sauerkraut          | 26  |
|            | Sasquatch Ale              | 111 |
|            | Schoggi Schokolade         | 49  |
|            | Scottish Longbreads        | 6   |
|            | Singaporean Hokkien Frie   | 26  |
|            | Sir Rodney's Marmalade     | 40  |
|            | Sir Rodney's Scones        | 3   |
|            | Sirop d'érable             | 113 |
|            | Spegesild                  | 95  |
|            | Steeleye Stout             | 20  |
|            | Tarte au sucre             | 17  |
|            | Teatime Chocolate Biscuits | 25  |
|            | Thüringer Rostbratwurst    | 0   |
|            | Tofu                       | 35  |
|            | Tourtière                  | 21  |
|            | Tunnbröd                   | 61  |
|            | Valkoinen suklaa           | 65  |
|            | Vegie-spread               | 24  |
|            | Wimmers gute Semmelkn      | 22  |
|            | Zaanse koeken              | 36  |
| Roshan     | Grandma's Boysenberry S    | 120 |
|            | Northwoods Cranberry Sa    | 6   |
|            | Uncle Bob's Organic Dried  | 15  |
| Shamnu     | Aniseed Syrup              | 13  |
|            | Chai                       | 39  |
|            | Chang                      | 17  |
| Shireen    | Chef Anton's Cajun Seaso   | 53  |
|            | Chef Anton's Gumbo Mix     | 0   |
|            | Louisiana Fiery Hot Peppe  | 76  |
|            | Louisiana Hot Spiced Okra  | 4   |

### show all products with shipping owners, sum of stocks using right joins

| Fairoza | Null                      |     |
|---------|---------------------------|-----|
| Roshan  | Grandma's Boysenberry S   | 120 |
|         | Northwoods Cranberry Sa   | 6   |
|         | Uncle Bob's Organic Dried | 15  |
| Shamnu  | Aniseed Syrup             | 13  |
|         | Chai                      | 39  |
|         | Chang                     | 17  |
| Shireen | Chef Anton's Cajun Seaso  | 53  |
|         | Chef Anton's Gumbo Mix    | 0   |
|         | Louisiana Fiery Hot Peppe | 76  |
|         | Louisiana Hot Spiced Okra | 4   |

## show all shipping owners with products, sum of stocks using joins

| Roshan  | Grandma's Boysenberry S   | 120 |
|---------|---------------------------|-----|
|         | Northwoods Cranberry Sa   | 6   |
|         | Uncle Bob's Organic Dried | 15  |
| Shamnu  | Aniseed Syrup             | 13  |
|         | Chai                      | 39  |
|         | Chang                     | 17  |
| Shireen | Chef Anton's Cajun Seaso  | 53  |
|         | Chef Anton's Gumbo Mix    | 0   |
|         | Louisiana Fiery Hot Peppe | 76  |
|         | Louisiana Hot Spiced Okra | 4   |

### show all shipping owners with products, suppliers sum of stocks using joins

Owner Name SupplierID (.. Product Name

| Roshan  | 3 | Grandma's Boysenberry S   | 120 |
|---------|---|---------------------------|-----|
|         |   | Northwoods Cranberry Sa   | 6   |
|         |   | Uncle Bob's Organic Dried | 15  |
| Shamnu  | 1 | Aniseed Syrup             | 13  |
|         |   | Chai                      | 39  |
|         |   | Chang                     | 17  |
| Shireen | 2 | Chef Anton's Cajun Seaso  | 53  |
|         |   | Chef Anton's Gumbo Mix    | 0   |
|         |   | Louisiana Fiery Hot Peppe | 76  |
|         |   | Louisiana Hot Spiced Okra | 4   |