### **Data Analysis and Integration**

**Project** 

Group 24

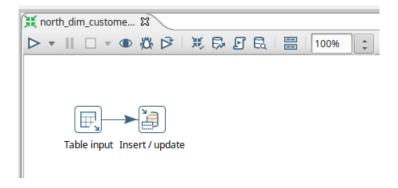
#### **Data Warehouse tables**

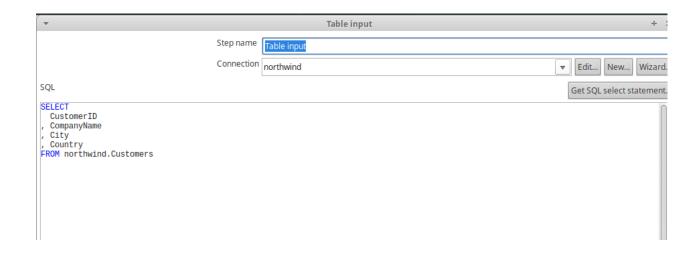
```
DROP DATABASE IF EXISTS northwind_dw;
CREATE DATABASE northwind_dw;
USE northwind_dw;
CREATE TABLE dim_customer (
    CustomerID VARCHAR(5),
    CompanyName VARCHAR(40),
    City VARCHAR(15),
    Country VARCHAR(15),
    PRIMARY KEY (CustomerID)
);
CREATE TABLE dim product (
    ProductID INTEGER,
    ProductIdentifier INTEGER,
    ProductName VARCHAR(40),
    CategoryName VARCHAR(15),
    VERSION INT,
    DATE_FROM DATETIME,
    DATE_TO DATETIME,
    PRIMARY KEY (ProductID)
);
CREATE TABLE dim_supplier (
    SupplierID INTEGER,
    CompanyName VARCHAR(40),
    City VARCHAR(15),
    Country VARCHAR(15),
    PRIMARY KEY (SupplierID)
);
CREATE TABLE dim_shipper (
    ShipperID INTEGER,
    CompanyName VARCHAR(40),
    PRIMARY KEY (ShipperID)
```

```
CREATE TABLE dim_time (
    TimeID DATE,
   YearID INTEGER,
    MonthID INTEGER,
    MonthName VARCHAR(255),
    DayID INTEGER,
    PRIMARY KEY (TimeID)
);
CREATE TABLE fact_order (
    OrderID INTEGER,
    CustomerID VARCHAR(5),
    ProductID INTEGER,
    SupplierID INTEGER,
    ShipperID INTEGER,
    TimeID DATE,
    UnitPrice DECIMAL(10,4),
    Quantity SMALLINT(2),
    Discount REAL,
    Sales DOUBLE,
    PRIMARY KEY (OrderID),
    FOREIGN KEY (CustomerID) REFERENCES dim_customer (CustomerID),
    FOREIGN KEY (ProductID) REFERENCES dim product (ProductID),
    FOREIGN KEY (SupplierID) REFERENCES dim_supplier (SupplierID),
    FOREIGN KEY (ShipperID) REFERENCES dim_shipper (ShipperID),
    FOREIGN KEY (TimeID) REFERENCES dim_time (TimeID)
);
```

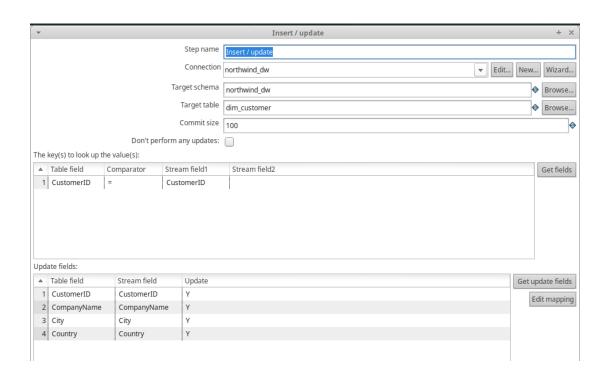
#### **Transformations**

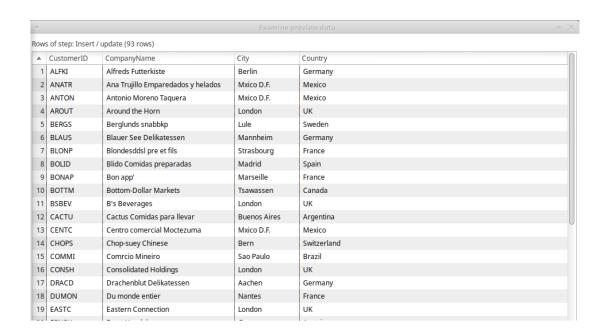
### Dim\_customer



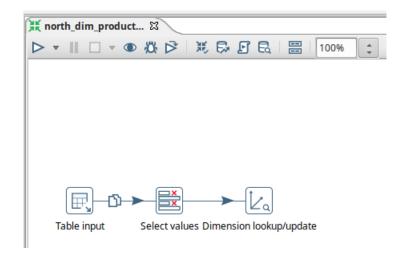


1				
ows	of step: Table i	nput (93 rows)		
<b>A</b> :	CustomerID	CompanyName	City	Country
1	ALFKI	Alfreds Futterkiste	Berlin	Germany
2	ANATR	Ana Trujillo Emparedados y helados	Mxico D.F.	Mexico
3	ANTON	Antonio Moreno Taquera	Mxico D.F.	Mexico
4	AROUT	Around the Horn	London	UK
5	BERGS	Berglunds snabbkp	Lule	Sweden
6	BLAUS	Blauer See Delikatessen	Mannheim	Germany
7	BLONP	Blondesddsl pre et fils	Strasbourg	France
8	BOLID	Blido Comidas preparadas	Madrid	Spain
9	BONAP	Bon app'	Marseille	France
10	воттм	Bottom-Dollar Markets	Tsawassen	Canada
11	BSBEV	B's Beverages	London	UK
12	CACTU	Cactus Comidas para llevar	Buenos Aires	Argentina
13	CENTC	Centro comercial Moctezuma	Mxico D.F.	Mexico
14	CHOPS	Chop-suey Chinese	Bern	Switzerland
15	COMMI	Comrcio Mineiro	Sao Paulo	Brazil
16	CONSH	Consolidated Holdings	London	UK

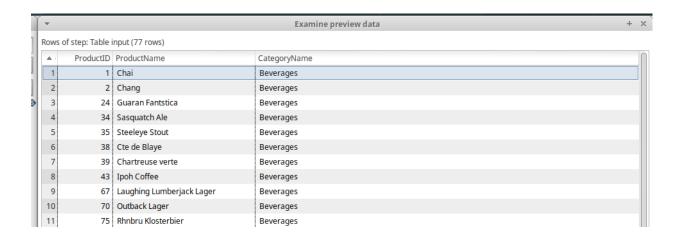




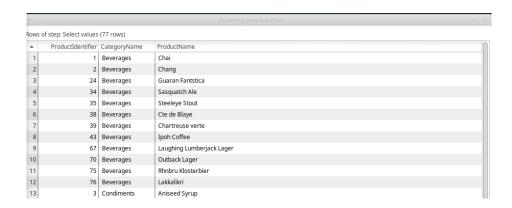
## Dim\_product

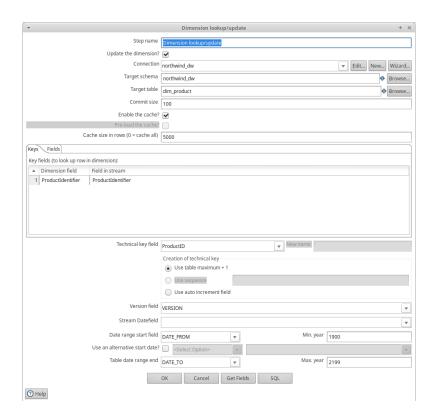


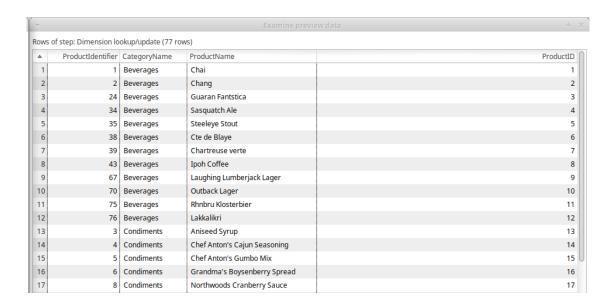




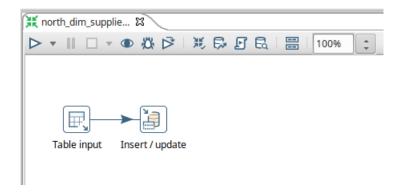


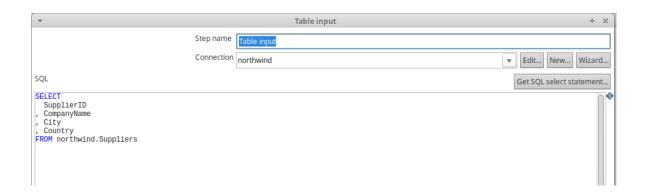




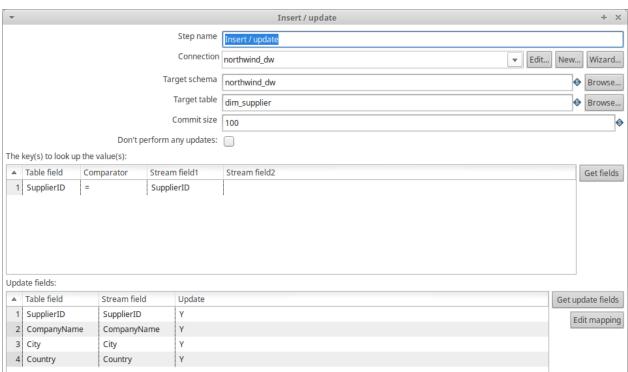


## Dim\_Supplier





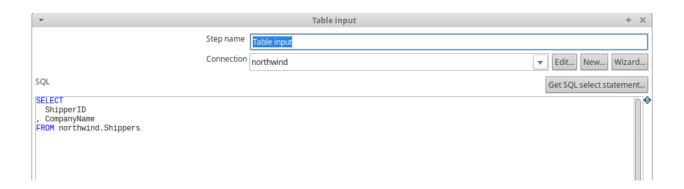




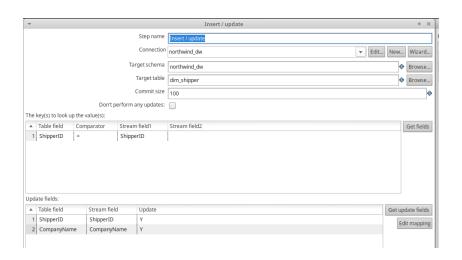
		Examine preview data									
ows or	step: Insert /	update (29 rows)									
A :	SupplierID	CompanyName	City	Country							
1	1	Exotic Liquids	London	UK							
2	2	New Orleans Cajun Delights	New Orleans	USA							
3	3	Grandma Kelly's Homestead	Ann Arbor	USA							
4	4	Tokyo Traders	Tokyo	Japan							
5	5	Cooperativa de Quesos 'Las Cabras'	Oviedo	Spain							
6	6	Mayumi's	Osaka	Japan							
7	7	Pavlova, Ltd.	Melbourne	Australia							
8	8	Specialty Biscuits, Ltd.	Manchester	UK							
9	9	PB Knckebrd AB	Gteborg	Sweden							

## Dim\_shipper







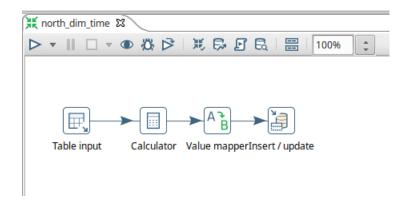


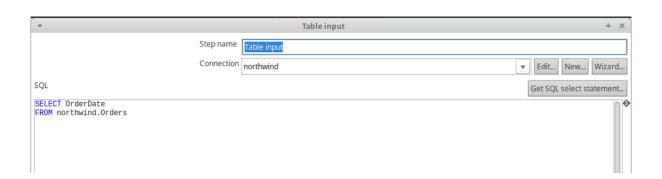
```
Rows of step: Insert / update (3 rows)

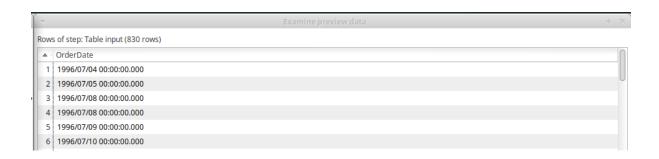
ShipperID CompanyName

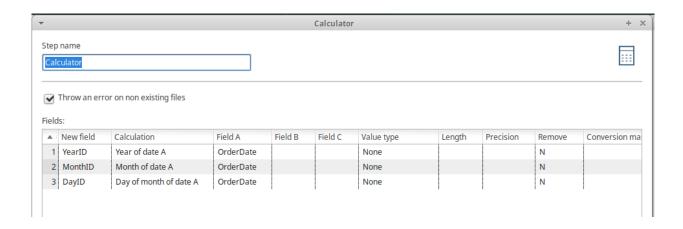
Speedy Express
United Package
Sederal Shipping
```

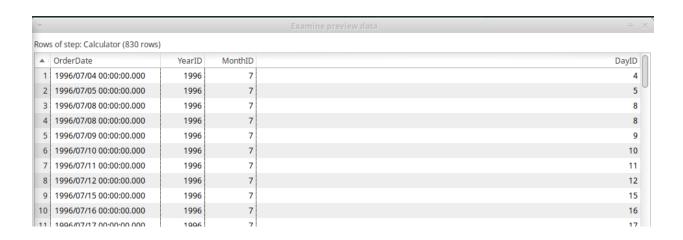
## Dim\_time

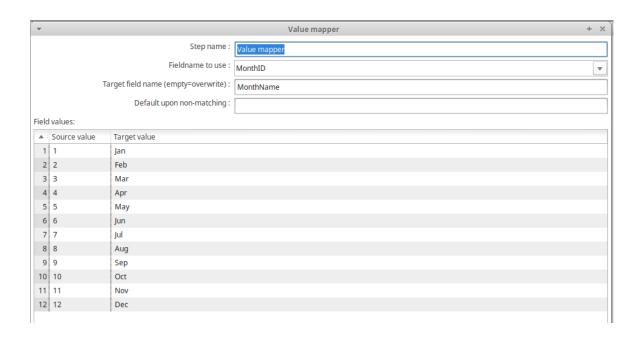


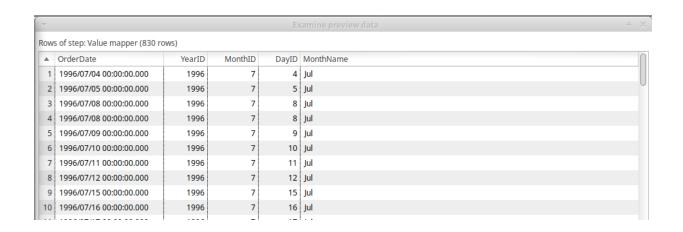


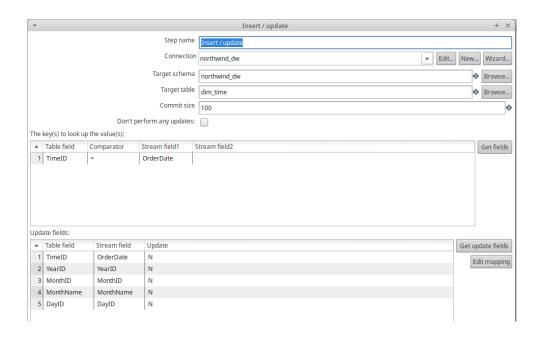






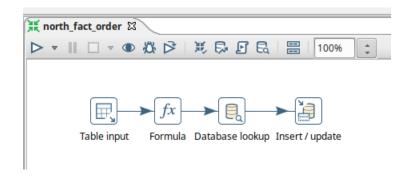


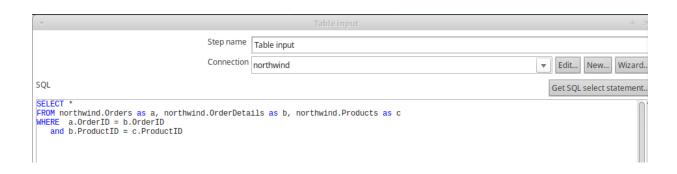


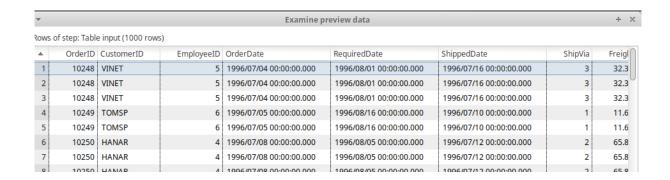


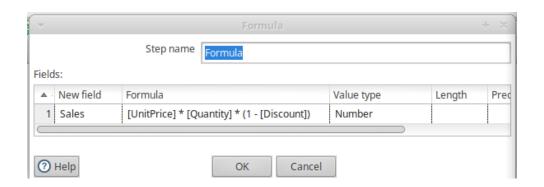
7				Ex	ramine preview data ÷ 3
OW:	s of step: Insert / update (830	rows)			
A :	OrderDate	YearID	MonthID	DayID	MonthName
1	1996/07/04 00:00:00.000	1996	7	4	Jul
2	1996/07/05 00:00:00.000	1996	7	5	Jul
3	1996/07/08 00:00:00.000	1996	7	8	Jul
4	1996/07/08 00:00:00.000	1996	7	8	Jul
5	1996/07/09 00:00:00.000	1996	7	9	Jul
6	1996/07/10 00:00:00.000	1996	7	10	Jul
7	1996/07/11 00:00:00.000	1996	7	11	Jul
8	1996/07/12 00:00:00.000	1996	7	12	Jul
9	1996/07/15 00:00:00.000	1996	7	15	Jul
10	1996/07/16 00:00:00.000	1996	7	16	Jul

### Fact\_order

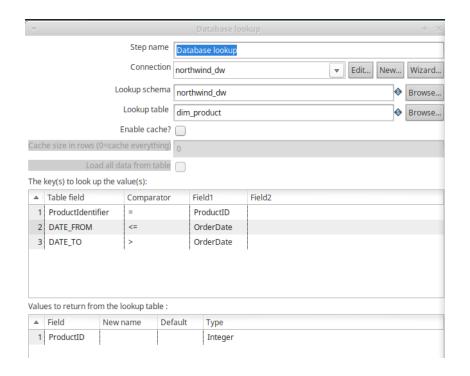




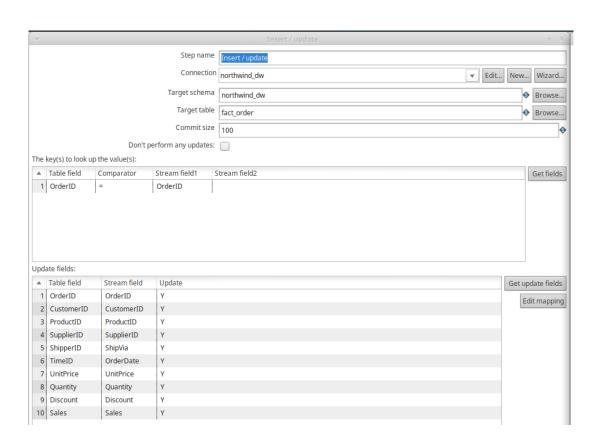


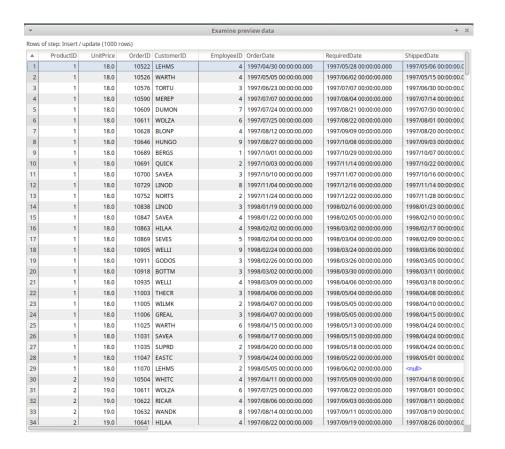


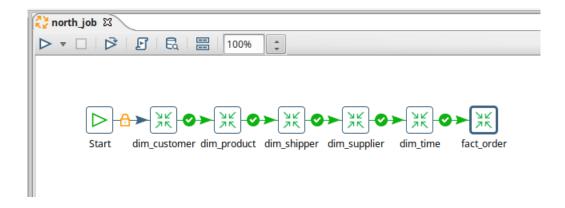
*			Examin	ne preview data				+ >
Rows of step: Formu	ula (1000 rows)							
	SupplierID	CategoryID	QuantityPerUnit	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued	Sales
	1	1	10 boxes x 20 bags	39	0	10	N	576.0
	1	1	10 boxes x 20 bags	39	0	10	N	122.4
	1	1	10 boxes x 20 bags	39	0	10	N	180.0
	1	1	10 boxes x 20 bags	39	0	10	N	360.0
	1	1	10 boxes x 20 bags	39	0	10	N	54.0
	1	1	10 boxes x 20 bags	39	0	10	N	108.0
	1	1	10 boxes x 20 bags	39	0	10	N	450.0
	1	1	10 boxes x 20 bags	39	0	10	N	202.5



₹					Examine pr	eview data		+ :					
Rows	tows of step: Database lookup (1000 rows)												
A :	ProductID	UnitPrice	OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate					
1	1	18.0	10522	LEHMS	4	1997/04/30 00:00:00.000	1997/05/28 00:00:00.000	1997/05/06 00:00:00.0					
2	1	18.0	10526	WARTH	4	1997/05/05 00:00:00.000	1997/06/02 00:00:00.000	1997/05/15 00:00:00.0					
3	1	18.0	10576	TORTU	3	1997/06/23 00:00:00.000	1997/07/07 00:00:00.000	1997/06/30 00:00:00.0					
4	1	18.0	10590	MEREP	4	1997/07/07 00:00:00.000	1997/08/04 00:00:00.000	1997/07/14 00:00:00.0					
5	1	18.0	10609	DUMON	7	1997/07/24 00:00:00.000	1997/08/21 00:00:00.000	1997/07/30 00:00:00.0					
6	1	18.0	10611	WOLZA	6	1997/07/25 00:00:00.000	1997/08/22 00:00:00.000	1997/08/01 00:00:00.0					
7	1	18.0	10628	BLONP	4	1997/08/12 00:00:00.000	1997/09/09 00:00:00.000	1997/08/20 00:00:00.0					
8	1	18.0	10646	HUNGO	9	1997/08/27 00:00:00.000	1997/10/08 00:00:00.000	1997/09/03 00:00:00.0					
9	1	18.0	10689	BERGS	1	1997/10/01 00:00:00.000	1997/10/29 00:00:00.000	1997/10/07 00:00:00.0					
10	1	18.0	10691	QUICK	2	1997/10/03 00:00:00.000	1997/11/14 00:00:00.000	1997/10/22 00:00:00.0					







#### XML code for the cube definition

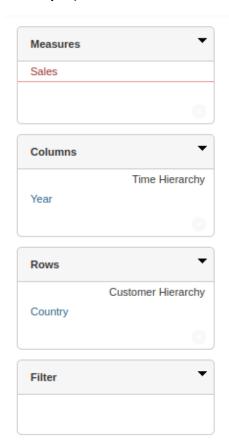
```
<Schema name="northwind dw">
  <Cube name="Orders" visible="true" cache="true" enabled="true">
    <Table name="fact order">
    </Table>
    <Dimension type="StandardDimension" visible="true" foreignKey="CustomerID"</pre>
highCardinality="false" name="Customer">
      <Hierarchy name="Customer Hierarchy" visible="true" hasAll="true"</pre>
allMemberName="All Customers" primaryKey="CustomerID">
        <Table name="dim customer">
        </Table>
        <Level name="Country" visible="true" column="Country" type="String"</pre>
uniqueMembers="false" levelType="Regular" hideMemberIf="Never">
        </Level>
        <Level name="City" visible="true" column="City" type="String"</pre>
uniqueMembers="false" levelType="Regular" hideMemberIf="Never">
        </Level>
        <Level name="Company Name" visible="true" column="CompanyName"</pre>
type="String" uniqueMembers="false" levelType="Regular" hideMemberIf="Never">
        </Level>
      </Hierarchy>
    </Dimension>
    <Dimension type="StandardDimension" visible="true" foreignKey="ProductID"</pre>
highCardinality="false" name="Product">
      <Hierarchy name="Product Hierarchy" visible="true" hasAll="true"</pre>
allMemberName="All Products" primaryKey="ProductID">
        <Table name="dim_product">
        </Table>
```

```
<Level name="Category Name" visible="true" column="CategoryName"</pre>
type="String" uniqueMembers="false" levelType="Regular" hideMemberIf="Never">
        </Level>
        <Level name="Product Name" visible="true" column="ProductName"</pre>
ordinalColumn="ProductName" type="String" uniqueMembers="false"
levelType="Regular" hideMemberIf="Never">
        </Level>
        <Level name="Product Identifier" visible="true"</pre>
column="ProductIdentifier" type="Integer" uniqueMembers="false"
levelType="Regular">
        </Level>
      </Hierarchy>
    </Dimension>
    <Dimension type="TimeDimension" visible="true" foreignKey="TimeID"</pre>
highCardinality="false" name="Time">
      <Hierarchy name="Time Hierarchy" visible="true" hasAll="true"</pre>
allMemberName="All years" primaryKey="TimeID">
        <Table name="dim time">
        </Table>
        <Level name="Year" visible="true" column="YearID" type="Integer"</pre>
uniqueMembers="false" levelType="TimeYears" hideMemberIf="Never">
        </Level>
        <Level name="Month" visible="true" column="MonthName"</pre>
ordinalColumn="MonthID" type="String" uniqueMembers="false"
levelType="TimeMonths" hideMemberIf="Never">
          <Annotations>
            <Annotation name="AnalyzerDateFormat">
              <![CDATA[[yyyy].[MMM]]]>
            </Annotation>
          </Annotations>
        </Level>
        <Level name="Day" visible="true" column="DayID" type="Integer"</pre>
uniqueMembers="false" levelType="TimeDays" hideMemberIf="Never">
        </Level>
      </Hierarchy>
    </Dimension>
    <Dimension type="StandardDimension" visible="true" foreignKey="ShipperID"</pre>
highCardinality="false" name="Shipper">
      <Hierarchy name="Shipper Hierarchy" visible="true" hasAll="true"</pre>
allMemberName="All Shippers" primaryKey="ShipperID">
        <Table name="dim shipper">
        </Table>
        <Level name="Company Name" visible="true" column="CompanyName"</pre>
type="String" uniqueMembers="false" levelType="Regular" hideMemberIf="Never">
        </Level>
```

```
</Hierarchy>
    </Dimension>
    <Dimension type="StandardDimension" visible="true" foreignKey="SupplierID"</pre>
highCardinality="false" name="Supplier">
      <Hierarchy name="Supplier Hierarchy" visible="true" hasAll="true"</pre>
allMemberName="All Suplliers" primaryKey="SupplierID">
        <Table name="dim supplier">
        </Table>
        <Level name="Country" visible="true" column="Country" type="String"</pre>
uniqueMembers="false" levelType="Regular" hideMemberIf="Never">
        </Level>
        <Level name="City" visible="true" column="City" type="String"</pre>
uniqueMembers="false" levelType="Regular">
        </Level>
        <Level name="Company Name" visible="true" column="CompanyName"</pre>
type="String" uniqueMembers="false" levelType="Regular">
        </Level>
      </Hierarchy>
    </Dimension>
    <Measure name="Quantity" column="Quantity" datatype="Integer"</pre>
formatString="#,###" aggregator="sum" visible="true">
    </Measure>
    <Measure name="Sales" column="Sales" datatype="Numeric" formatString="$</pre>
#,###.00" aggregator="sum" visible="true">
    </Measure>
  </Cube>
</Schema>
```

# **Analysis queries**

# Query a)



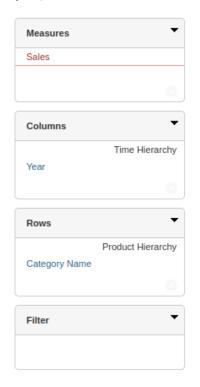
Year	1996	1997	1998	
Country	Sales	Sales	Sales	Sales Grand Total
Argentina	-	\$ 872.50	\$ 2,221.00	\$ 3,093.50
Austria	\$ 12,208.86	\$ 25,462.18	\$ 14,621.35	\$ 52,292.39
Belgium	\$ 1,529.60	\$ 3,879.08	\$ 4,662.70	\$ 10,071.38
Brazil	\$ 4,427.44	\$ 15,926.64	\$ 28,710.96	\$ 49,065.05
Canada	\$ 1,959.48	\$ 8,259.53	\$ 7,419.48	\$ 17,638.48
Denmark	\$ 555.00	\$ 4,827.83	\$ 3,448.59	\$ 8,831.41
Finland	\$ 2,401.76	\$ 5,023.05	\$ 1,117.30	\$ 8,542.11
France	\$ 4,545.82	\$ 17,905.74	\$ 7,351.26	\$ 29,802.82
Germany	\$ 12,310.00	\$ 35,774.75	\$ 21,990.46	\$ 70,075.21
Ireland	\$ 3,318.76	\$ 6,159.03	\$ 7,771.14	\$ 17,248.93
Italy	\$ 477.80	\$ 4,311.90	\$ 2,541.10	\$ 7,330.80
Mexico	\$ 1,543.60	\$ 4,108.51	\$ 1,468.50	\$ 7,120.61
Norway	\$ 258.00	\$ 664.00	\$ 696.25	\$ 1,618.25
Poland	\$ 159.00	\$ 697.50	\$ 1,357.60	\$ 2,214.10
Portugal	\$ 1,134.14	\$ 2,881.47	\$ 253.80	\$ 4,269.41
Spain	\$ 615.30	\$ 2,753.80	\$ 2,375.95	\$ 5,745.05
Sweden	\$ 1,415.23	\$ 8,894.03	\$ 5,729.27	\$ 16,038.52
Switzerland	\$ 1,624.00	\$ 4,991.20	\$ 4,496.79	\$ 11,111.99
UK	\$ 5,273.80	\$ 7,825.55	\$ 9,384.13	\$ 22,483.47
USA	\$ 14,684.16	\$ 35,725.98	\$ 37,222.08	\$ 87,632.22
Venezuela	\$ 1,889.83	\$ 11,601.40	\$ 6,410.68	\$ 19,901.91
Grand Total	\$ 72,331.58	\$ 208,545.64	\$ 171,250.36	

Columns Sales: Sum

Rows

Sales: Sum

## Query b)

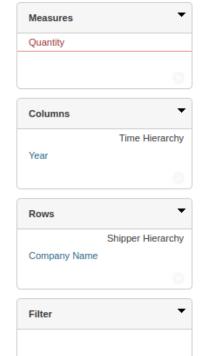


Year	1996	1997	1998	
Category Name	Sales	Sales	Sales	Sales Grand Total
Beverages	\$ 3,002.88	\$ 3,487.95	\$ 2,997.38	\$ 9,488.21
Condiments	\$ 1,961.40	\$ 7,633.18	\$ 6,620.39	\$ 16,214.96
Confections	\$ 2,762.94	\$ 13,451.96	\$ 18,399.67	\$ 34,614.57
Dairy Products	\$ 12,367.31	\$ 23,052.00	\$ 35,711.04	\$ 71,130.34
Grains/Cereals	\$ 7,329.46	\$ 27,169.92	\$ 8,745.97	\$ 43,245.35
Meat/Poultry	\$ 13,277.04	\$ 48,461.25	\$ 31,394.80	\$ 93,133.09
Produce	\$ 12,454.80	\$ 31,480.72	\$ 34,429.97	\$ 78,365.49
Seafood	\$ 19,175.75	\$ 53,808.67	\$ 32,951.15	\$ 105,935.57
Grand Total	\$ 72,331.58	\$ 208,545.64	\$ 171,250.36	

Columns Sales: Sum

Rows Sales: Sum

# Query c)



Year	1996	1997	1998	
Company Name	Quantity	Quantity	Quantity	Quantity Grand Total
Federal Shipping	1,314	3,050	1,575	5,939
Speedy Express	715	3,052	1,919	5,686
United Package	1,197	3,552	2,619	7,368
Grand Total	3,226	9,654	6,113	

Columns Quantity: Sum

Rows

**Quantity: Sum** 

### Query d)

Measures

Sales

Columns

Product Hierarchy
Category Name

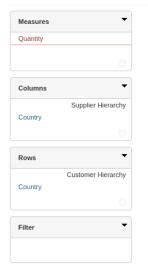
Rows

Customer Hierarchy
Country

Category Name Beverages Condiments Confections Dairy Products Grains/Cereals Meat/Poultry Produce Seafood Country Argentina \$ 126.00 \$ 292.50 \$821.00 \$ 40.00 \$500.00 \$ 285.00 \$1,029.00 \$ 2,991.45 \$ 591.33 \$10,871.20 \$ 6,648.90 \$5,864.00 \$16,086.83 \$ 9,238.68 Austria Belgium \$ 74.50 \$ 2,163.80 \$4,104.00 \$3,729.08 \$ 2,845.18 \$11,399.80 \$ 9,006.17 Brazil \$ 699.85 \$3,127.38 \$ 1.466.91 \$ 19,266.76 \$1,253.00 \$ 1,307.00 Canada \$ 840.00 \$ 399.00 \$ 895.08 \$ 4,508.30 \$5,666.72 \$ 4,022.38 \$ 3,136,38 \$ 1.986.35 Denmark \$ 232.09 \$ 766.00 \$ 736.00 \$ 697.50 \$ 1.277.10 Finland \$ 346.56 \$ 532.80 \$ 244.80 \$1,196.00 \$ 393.00 \$3,199.25 \$ 142.50 \$ 2,487.20 \$1,471.20 \$1,020.15 \$5,703.89 \$ 2,352.50 \$1,778.62 \$ 2,012.50 \$7,222.88 \$8,241.08 Germany \$ 1,552.40 \$3,096.40 \$3,514.79 \$ 5,857.58 \$ 7,554.30 \$ 16,473.60 \$ 14,231.98 \$17,794.17 Ireland \$ 7,596.09 \$ 540.55 \$ 1,628.16 \$3,419.40 \$1,933.38 \$ 110.00 \$ 885.00 \$621.00 \$ 660.50 \$ 1,662.90 \$ 773.30 \$ 443.70 \$ 2,174.40 Italy \$ 403.20 \$ 138.00 \$ 753.80 \$ 1,631.95 \$ 1,169.06 \$ 1,218.50 \$ 1,806.10 Mexico \$ 500.00 \$ 462.25 \$ 164.00 \$ 492.00 Norway \$ 420.00 \$ 106.00 \$ 669.00 \$ 1.019.10 Poland \$ 749.02 \$ 1.453.00 \$ 268.39 \$ 323.88 Portugal \$ 285.12 \$1.190.00 \$ 253.50 Spain \$ 465.00 \$1,984.45 \$773.20 \$1,161.90 \$1,107.00 \$ 1,705.13 \$ 744.44 \$ 3,365.48 \$ 3,086.40 \$1,129.43 \$ 5,535.14 Switzerland \$ 1,510.50 \$ 2,228.00 \$ 2,557.16 \$4,816.33 UK \$ 1,104.38 \$ 196.20 \$ 2,181.75 \$ 2,176.11 \$ 3,099.33 \$ 6,424.20 \$1,587.40 \$ 5,714.10 USA \$ 2,178.00 \$1,937.00 \$ 5,040.64 \$ 16,379.45 \$ 6,831.64 \$19,021.71 \$19,973.76 \$16,270.03 \$ 400.00 \$ 592.50 \$ 1,752.50 \$3,185.18 \$ 1,366.75 \$ 4,727.83 \$ 266.00 \$ 7,611.15 Venezuela

Info: 15:29 / 9 x 23 / 0.01s

## Query e)



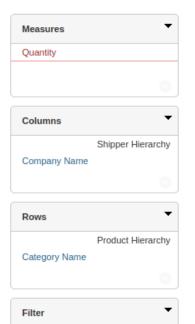
Country	Australia	Brazil	Canada	Denmark	Finland	France	Germany	Italy	Japan	Netherlands	Norway	Singapore	5
Country	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Q
Argentina	-	-	10	-	2	4	35	26	5	-	-	-	
Austria	311	-	146	-	50	350	296	30	186	70	196	28	
Belgium	-	-	10	-	48	110	40	31	20	-	90	100	
Brazil	192	50	90	85	162	289	288	187	-	54	124	40	
Canada	64	-	117	-	-	50	93	155	30	46	15	29	
Denmark	54	-	90	-	25	27	101	24	-	-	-	-	
Finland	15	20	10	-	10	41	3	50	75	-	110	31	
France	124	30	231	10	104	45	151	141	55	-	107	40	
Germany	329	-	293	2	348	493	429	221	57	12	195	214	
Ireland	113	-	15	-	35	89	151	65	-	-	53	20	
Italy	40	10	10	20	58	16	56	30	5	5	-	-	
Mexico	62	20	10	-	30	49	50	20	10	15	10	71	
Norway	13	-	-	-	-	-	18	-	-	-	15	9	
Poland	2	-	27	-	-	30	30	-	-	-	-	-	
Portugal	18	-	20	-	10	42	7	28	-	-	-	54	
Spain	44	-	19	-	5	19	96	2	15	-	-	-	
Sweden	154	-	48	-	104	45	157	60	-	-	38	-	
Switzerland	112	-	12	-	2	40	50	30	41	-	96	-	
UK	161	-	47	43	80	175	9	162	3	-	97	30	
USA	251	8	740	42	195	335	525	333	-	6	295	152	
Venezuela	122		80		65	97	189	144	40	-	77	30	

Info: 15:38 / 17 x 23 / 0.02s

Measures	
Quantity	
Columns	•
	Supplier Hierarchy
Country	
Rows	
	Customer Hierarchy
Country	
Filter	_
Filler	

nada	Denmark	Finland	France	Germany	Italy	Japan	Netherlands	Norway	Singapore	Spain	Sweden	UK	USA
antity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity	Quantity						
10	-	2	4	35	26	5		-	-	-	-	18	60
146	-	50	350	296	30	186	70	196	28	-	35	-	82
10	-	48	110	40	31	20		90	100	-	-	-	-
90	85	162	289	288	187	-	54	124	40	19	43	102	71
117	-	-	50	93	155	30	46	15	29	-	40	87	-
90	-	25	27	101	24	-	-	-	-	-	-	-	64
10	-	10	41	3	50	75		110	31	12	-	-	6
231	10	104	45	151	141	55	-	107	40	10	-	69	117
293	2	348	493	429	221	57	12	195	214	20	127	95	251
15	-	35	89	151	65	-	-	53	20	-	-	-	50
10	20	58	16	56	30	5	5	-	-	-	40	23	89
10	-	30	49	50	20	10	15	10	71	24	-	-	30
-	-	-	-	18	-	-	-	15	9	-	-	-	5
27	-	-	30	30	-	-	-	-	-	-	-	15	-
20	-	10	42	7	28	-	-	-	54	-	-	10	33
19	-	5	19	96	2	15	-	-	-	-	-	35	40
48	-	104	45	157	60	-	-	38	-	-	-	35	150
12	-	2	40	50	30	41	-	96	-	-	-	-	10
47	43	80	175	9	162	3	-	97	30	5	105	35	85
740	42	195	335	525	333	-	6	295	152	10	-	137	156
80	-	65	97	189	144	40	-	77	30		120	50	162

# Query f)



Company Name	Federal Shipping	Speedy Express	United Package	
Category Name	Quantity	Quantity	Quantity	Quantity Grand Total
Beverages	152	79	249	480
Condiments	257	132	469	858
Confections	282	432	670	1,384
Dairy Products	865	590	781	2,236
Grains/Cereals	649	582	834	2,065
Meat/Poultry	952	977	1,005	2,934
Produce	870	539	907	2,316
Seafood	1,912	2,355	2,453	6,720
Grand Total	5,939	5,686	7,368	

Rows

Quantity: Sum

Columns

Quantity: Sum