Assignment 5

Extensibility of code:

- I have deigned my queries and code in such a way that it is seamlessly extensible.
- I have made separate classes for customer, product and supplier information, so if any additional information is required for any one of the above, all I need to do is add the condition in query, create and add those elements in the already created document.
- If in case any of the three things i.e. customer, product or supplier information needs to be removed from the program than I just need to remove than classes function call.
- From the queries perspective, small additions will make the queries return the desired additional information.
- I have also made a separate class for Document generation, making the code more extensible with less cohesion.

The argument for deploying the code:

- The code is neatly divided into modules and classes focusing on specific functionalities to make it more readable, efficient and easier to follow.
- All modules have been tested thoroughly to eliminate any errors and exceptions faced.
- Three inputs are taken from the user; Start Date, End Date and Absolute File Path (XML file) to write the data retrieved.
- I have written the code that validates all the inputs taken from the user, making code more robust.
- The code needs to connect with Dal database, so all the connection related conditions are taken into consideration.
- Queries are used to retrieve the data from the database, so all the queries have been tested thoroughly on MySQL Workbench before being used in the code.
  (I have attached below the screenshots of the step-by-step process that I followed to finalize the queries)
- The thoroughly tested queries are then being used in the code to retrieve data and storing it in a resultSet.
- Data is then parsed from the resultSet into various elements which eventually gets added to the main document.
- I have used Document Builder to store the data retrieved from running the queries in XML and then writing it to the user provided file.
- I have referred a code snippet from StackOverflow to write the XML to a file using Document Builder, where rather than creating my own nodes, I have used java inbuilt classes for formatting and generating the xml file.
- I have used the above approach in order to improve the extensibility of the code. If the query changes and we need to add one or more column in the resultSet, then not much changes are required. The entire code could be used by adding those new attributes, which additionally we are retrieving from the database and writing it to the file.
- I have documented the code very well so that anyone can understand the flow and what the code actually does.

NOTE:

I have made two driver files; one file "**Test.java**" accepting the inputs from the user through an IntelliJ and other file "**CommandLine.java**" accepting inputs through command line. So, either of the files could be used.

I have also attached the "**Assignment5.sql**" file containing all the required queries along with the steps that I used to reach the final queries.

Extracting Data using MySQL Queries:

1. **Customer Information:**
    a. **Getting the CustomerID, CompanyName, entire Address of CustomerID = "VINET"**

```
# Query 1

SELECT
    CustomerID,
    CompanyName,
    Address,
    City,
    Region,
    PostalCode,
    Country
FROM
    customers
WHERE
    CustomerID = "VINET";
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

CustomerID	CompanyName	Address	City	Region	PostalCode	Country
VINET	Vins et alcools Chevalier	59 rue de l'Abbaye	Reims	NULL	51100	France
NULL	NULL	NULL	NULL	NULL	NULL	NULL

    b. **Getting the CustomerID, CompanyName, entire Address & also calculating the number of orders placed by CustomerID = "VINET" by joining tables customers and orders**

```
SELECT
    c.CustomerID,
    c.CompanyName,
    c.Address,
    c.City,
    c.Region,
    c.PostalCode,
    c.Country,
    COUNT(DISTINCT o.OrderID) AS NumOfOrders
FROM
    customers AS c, orders AS o
WHERE
    c.CustomerID = o.CustomerID AND
    c.CustomerID = "VINET"
GROUP BY
    o.CustomerID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CustomerID	CompanyName	Address	City	Region	PostalCode	Country	NumOfOrders
VINET	Vins et alcools Chevalier	59 rue de l'Abbaye	Reims	NULL	51100	France	5

    c. **Getting the number of orders placed by CustomerID = "VINET" from orders table (Verifying the above query where I am aggregating the orders placed by "VINET" which totals to 5 orders)**

```
35
36 •  SELECT
37        CustomerID,
38        OrderID
39    FROM
40        orders
41    WHERE
42        CustomerID = "VINET";
43
```

Result Grid | Filter Rows: | Edit: | Export/Impor

CustomerID	OrderID
VINET	10248
VINET	10274
VINET	10295
VINET	10737
VINET	10739
NULL	NULL

d. Getting the CustomerID, CompanyName, entire Address, calculating the number of orders placed by CustomerID = "VINET" along with the total price for the orders placed by joining tables customers, orders and orderdetails

```
44 •  SELECT
45        c.CustomerID,
46        c.CompanyName,
47        c.Address,
48        c.City,
49        c.Region,
50        c.PostalCode,
51        c.Country,
52        COUNT(DISTINCT o.OrderID) AS NumOfOrders,
53        SUM(od.UnitPrice * od.Quantity - od.Discount) AS TotalOrderPrice
54    FROM
55        customers AS c, orders AS o, orderdetails AS od
56    WHERE
57        c.CustomerID = o.CustomerID AND
58        o.OrderID = od.OrderID AND
59        o.CustomerID = "VINET"
60    GROUP BY
61        o.CustomerID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CustomerID	CompanyName	Address	City	Region	PostalCode	Country	NumOfOrders	TotalOrderPrice
VINET	Vins et alcools Chevalier	59 rue de l'Abbaye	Reims	NULL	51100	France	5	1480.0000

e. Verifying the above query by multiplying the UnitPrice & Quantity in the below query for CustomerID = "VINET" and getting the same result as the above query where I am using SUM to calculate the total order value.

```sql
SELECT
    c.CustomerID,
    c.CompanyName,
    c.Address,
    c.City,
    c.Region,
    c.PostalCode,
    c.Country,
    COUNT(DISTINCT o.OrderID) AS NumOfOrders,
    od.UnitPrice,
    od.Quantity,
    od.Discount
FROM
    customers AS c, orders AS o, orderdetails AS od
WHERE
    c.CustomerID = o.CustomerID AND
    o.OrderID = od.OrderID AND
    o.CustomerID = "VINET"
GROUP BY
    o.CustomerID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CustomerID	CompanyName	Address	City	Region	PostalCode	Country	NumOfOrders	UnitPrice	Quantity	Discount
VINET	Vins et alcools Chevalier	59 rue de l'Abbaye	Reims	NULL	51100	France	5	14.0000	12	0

f. Now the final query including the limiting factor as the period between which the number of orders & the total value for those orders is retrieved for CustomerID = "VINET"

```sql
SELECT
    c.CustomerID,
    c.CompanyName,
    c.Address,
    c.City,
    c.Region,
    c.PostalCode,
    c.Country,
    COUNT(DISTINCT o.OrderID) AS NumOfOrders,
    SUM(od.UnitPrice * od.Quantity - od.Discount) AS TotalOrderPrice
FROM
    customers AS c, orders AS o, orderdetails AS od
WHERE
    c.CustomerID = o.CustomerID AND
    o.OrderID = od.OrderID AND
    o.OrderDate BETWEEN "1996-08-06" AND "1997-08-06" AND
    o.CustomerID ="VINET"
GROUP BY
    o.CustomerID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CustomerID	CompanyName	Address	City	Region	PostalCode	Country	NumOfOrders	TotalOrderPrice
VINET	Vins et alcools Chevalier	59 rue de l'Abbaye	Reims	NULL	51100	France	2	660.2000

g. The final query for fetching the Customer information for the given period

```sql
SELECT
    c.CompanyName,
    c.Address,
    c.City,
    c.Region,
    c.PostalCode,
    c.Country,
    COUNT(DISTINCT o.OrderID) AS NumOfOrders,
    SUM(od.UnitPrice * od.Quantity - od.Discount) AS TotalOrderPrice
FROM
    customers AS c, orders AS o, orderdetails AS od
WHERE
    c.CustomerID = o.CustomerID AND
    o.OrderID = od.OrderID AND
    o.OrderDate BETWEEN "1996-08-06" AND "1997-08-06"
GROUP BY
    o.CustomerID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CompanyName	Address	City	Region	PostalCode	Country	NumOfOrders	TotalOrderPrice
Ana Trujillo Emparedados y helados	Avda. de la Constitucin 2222	Mxico D.F.	NULL	05021	Mexico	1	88.8000
Antonio Moreno Taquera	Mataderos 2312	Mxico D.F.	NULL	05023	Mexico	4	5522.9500
Around the Horn	120 Hanover Sq.	London	NULL	WA1 1DP	UK	4	3974.9000
Berglunds snabbkp	Berguvsvgen 8	Lule	NULL	S-958 22	Sweden	7	10289.3000
Blauer See Delikatessen	Forsterstr. 57	Mannheim	NULL	68306	Germany	4	1079.8000

Note:
I even cross verified the output by exporting the output of the above queries in excel & manually checked for CustomerID = “VINET” & CustomerID = “PERIC”

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2. Product Information:

a. There are total 8 product categories, fetching each product category’s name

```sql
SELECT
    CategoryID,
    CategoryName
FROM
    categories;
```

Result Grid | Filter Rows: | Edit: | Exp

CategoryID	CategoryName
1	Beverages
2	Condiments
3	Confections
4	Dairy Products
5	Grains/Cereals
6	Meat/Poultry
7	Produce
8	Seafood
NULL	NULL

b. Fetching all the products by joining the products & categories tables (Each category has 77 products, totalling to 616 products across all categories)

```sql
SELECT
    p.ProductID,
    p.ProductName,
    c.CategoryID,
    c.CategoryName
FROM
    products AS p, categories AS c
Order BY
    c.CategoryName;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Conter

ProductID	ProductName	CategoryID	CategoryName
63	Vegie-spread	1	Beverages
40	Boston Crab Meat	1	Beverages
2	Chang	1	Beverages
48	Chocolade	1	Beverages
71	Flotemysost	1	Beverages
56	Gnocchi di nonna Alice	2	Condiments
24	Guaran Fantstica	2	Condiments

c. Fetching the category name, corresponding product name, supplier name & their respective quantities, unit price & discount in the placed orders by joining products, categories, suppliers & orderdetails tables

```sql
SELECT
    c.CategoryName,
    p.ProductName,
    s.CompanyName,
    od.Quantity,
    od.UnitPrice,
    od.Discount
FROM
    orderdetails AS od, products AS p, suppliers AS s, categories AS c, orders AS o
WHERE
    od.ProductID = p.ProductID AND
    p.SupplierID = s.SupplierID AND
    p.CategoryID = c.CategoryID AND
    o.OrderID = od.OrderID
ORDER BY
    c.CategoryName, p.ProductName, s.CompanyName;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

CategoryName	ProductName	CompanyName	Quantity	UnitPrice	Discount
Beverages	Chai	Exotic Liquids	45	14.4000	0
Beverages	Chai	Exotic Liquids	8	18.0000	0
Beverages	Chai	Exotic Liquids	25	18.0000	0
Beverages	Chai	Exotic Liquids	4	18.0000	0
Beverages	Chai	Exotic Liquids	3	18.0000	0
Beverages	Chai	Exotic Liquids	60	18.0000	0
Beverages	Chai	Exotic Liquids	10	18.0000	0

d. Now fetching the sum of the quantities for the above query & grouping it by ProductID (Basically, fetching the UnitsSold for each product under each category)

```sql
SELECT
    c.CategoryName,
    p.ProductName,
    s.CompanyName,
    SUM(od.Quantity) AS UnitsSold
FROM
    orderdetails AS od, products AS p, suppliers AS s, categories AS c
WHERE
    od.ProductID = p.ProductID AND
    p.SupplierID = s.SupplierID AND
    p.CategoryID = c.CategoryID
GROUP BY
    od.ProductID
ORDER BY
    c.CategoryName, p.ProductName, s.CompanyName;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CategoryName	ProductName	CompanyName	UnitsSold
Beverages	Chai	Exotic Liquids	828
Beverages	Chang	Exotic Liquids	1057
Beverages	Chartreuse verte	Aux joyeux ecclsiastiques	793
Beverages	Cte de Blaye	Aux joyeux ecclsiastiques	623
Beverages	Guaran Fantstica	Refrescos Americanas LTDA	1125
Beverages	Ipoh Coffee	Leka Trading	580
Beverages	Lakkalikri	Karkki Oy	981

Note:
I calculated in excel the UnitsSold for each product & it matches with the above query's result.

e. Fetching the units sold & sale value for each products without the period constraint

```
169
170 •  SELECT
171        c.CategoryName,
172        p.ProductName,
173        s.CompanyName,
174        SUM(od.Quantity) AS UnitsSold,
175        SUM(od.Quantity * od.UnitPrice - od.Discount) as SaleValue
176    FROM
177        orderdetails AS od, products AS p, suppliers AS s, categories AS c, orders AS o
178    WHERE
179        od.ProductID = p.ProductID AND
180        p.SupplierID = s.SupplierID AND
181        p.CategoryID = c.CategoryID AND
182        o.OrderID = od.OrderID
183    GROUP BY
184        od.ProductID
185    ORDER BY
186        c.CategoryName, p.ProductName, s.CompanyName;
187
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CategoryName	ProductName	CompanyName	UnitsSold	SaleValue
Beverages	Chai	Exotic Liquids	828	14277.6000
Beverages	Chang	Exotic Liquids	1057	18559.2000
Beverages	Chartreuse verte	Aux joyeux ecclsiastiques	793	13150.8000
Beverages	Cte de Blaye	Aux joyeux ecclsiastiques	623	149984.2000
Beverages	Guaran Fantstica	Refrescos Americanas LTDA	1125	4782.6000
Beverages	Ipoh Coffee	Leka Trading	580	25079.2000
Beverages	Lakkalikri	Karkki Oy	981	16794.0000

f. The final query for fetching the Product Information for the given period

```
188 •  SELECT
189        c.CategoryName,
190        p.ProductName,
191        s.CompanyName,
192        SUM(od.Quantity) AS UnitsSold,
193        SUM(od.Quantity * od.UnitPrice - od.Discount) as SaleValue
194    FROM
195        orderdetails AS od, products AS p, suppliers AS s, categories AS c, orders AS o
196    WHERE
197        od.ProductID = p.ProductID AND
198        p.SupplierID = s.SupplierID AND
199        p.CategoryID = c.CategoryID AND
200        o.OrderID = od.OrderID AND
201        o.OrderDate BETWEEN "1997-01-07" AND "1997-01-10"
202    GROUP BY
203        od.ProductID
204    ORDER BY
205        c.CategoryName;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CategoryName	ProductName	CompanyName	UnitsSold	SaleValue
Beverages	Chai	Exotic Liquids	10	144.0000
Condiments	Gula Malacca	Leka Trading	40	620.0000
Confections	Tarte au sucre	Forts d'rables	35	1379.0000
Confections	Sir Rodney's Scones	Specialty Biscuits, Ltd.	42	336.0000
Dairy Products	Gudbrandsdalsost	Norske Meierier	15	432.0000
Dairy Products	Geitost	Norske Meierier	49	98.0000
Dairy Products	Queso Cabrales	Cooperativa de Quesos 'Las Cabras'	30	504.0000
Dairy Products	Flotemysost	Norske Meierier	15	258.0000
Dairy Products	Raclette Courdavault	Gai pturage	25	1100.0000
Meat/Poultry	Tourtire	Ma Maison	6	35.4000
Produce	Rssle Sauerkraut	Plutzer Lebensmittelgromrkte AG	42	1528.8000

Note:
I calculated in excel the SaleValue for ProductName = “Chai” & for ProductName = “Chang”, it matches with the above query’s result.

---

3. Supplier Information:

a. Fetching the supplier name and the entire address (There are a total of 29 suppliers)

```sql
SELECT
    s.SupplierID,
    s.CompanyName,
    s.Address,
    s.City,
    s.Region,
    s.PostalCode,
    s.Country
FROM
    suppliers AS s;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

SupplierID	CompanyName	Address	City	Region	PostalCode	Country
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK
2	New Orleans Cajun Delights	P.O. Box 78934	New Orleans	LA	70117	USA
3	Grandma Kelly's Homestead	707 Oxford Rd.	Ann Arbor	MI	48104	USA
4	Tokyo Traders	9-8 Sekimai Musashino-shi	Tokyo	NULL	100	Japan
5	Cooperativa de Quesos 'Las Cabras'	Calle del Rosal 4	Oviedo	Asturias	33007	Spain
6	Mayumi's	92 Setsuko Chuo-ku	Osaka	NULL	545	Japan
7	Pavlova, Ltd.	74 Rose St. Moonie Ponds	Melbourne	Victoria	3058	Australia
8	Specialty Biscuits, Ltd.	29 King's Way	Manchester	NULL	M14 GSD	UK
9	PB Knckebrd AB	Kaloadagatan 13	Gteborg	NULL	S-345 67	Sweden
10	Refrescos Americanas LTDA	Av. das Americanas 12.890	So Paulo	NULL	5442	Brazil
11	Heli Swaren GmbH & Co. KG	Tiergartenstrae 5	Berlin	NULL	10785	Germany

b. Each supplier supplies more than one product

```sql
SELECT
    p.ProductID,
    p.SupplierID,
    s.CompanyName,
    s.SupplierID
FROM
    products AS p, suppliers AS s
WHERE
    p.SupplierID = s.SupplierID
ORDER BY
    p.ProductID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Co

ProductID	SupplierID	CompanyName	SupplierID
1	1	Exotic Liquids	1
2	1	Exotic Liquids	1
3	1	Exotic Liquids	1
4	2	New Orleans Cajun Delights	2
5	2	New Orleans Cajun Delights	2
6	3	Grandma Kelly's Homestead	3
7	3	Grandma Kelly's Homestead	3
8	3	Grandma Kelly's Homestead	3
9	4	Tokyo Traders	4
10	4	Tokyo Traders	4
11	5	Cooperativa de Quesos 'La...	5

c. **Fetching the supplier details along with Quantity, Unit Price & Discount by joining tables suppliers, products, orderdetails & orders**

```
233 •  SELECT
234        s.SupplierID,
235        s.CompanyName,
236        s.Address,
237        s.City,
238        s.Region,
239        s.PostalCode,
240        s.Country,
241        od.Quantity,
242        od.UnitPrice,
243        od.Discount
244    FROM
245        suppliers AS s, products AS p, orderdetails AS od, orders AS o
246    WHERE
247        s.SupplierID = p.SupplierID AND
248        p.ProductID = od.ProductID AND
249        o.OrderID = od.OrderID;
250
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

SupplierID	CompanyName	Address	City	Region	PostalCode	Country	Quantity	UnitPrice	Discount
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	45	14.4000	0
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	18	14.4000	0
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	20	14.4000	0
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	15	14.4000	0
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	12	14.4000	0
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	15	14.4000	0
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	10	14.4000	0
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	24	14.4000	0
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	15	14.4000	0
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	40	18.0000	0

d. **Fetching the total number of products sold & its total dollar value for each supplier by using SUM on (Quantity) and the (UnitPrice * Quantity – Discount) respectively & grouping by the SupplierID**

```
233 •  SELECT
234        s.SupplierID,
235        s.CompanyName,
236        s.Address,
237        s.City,
238        s.Region,
239        s.PostalCode,
240        s.Country,
241        SUM(od.Quantity) AS ProductsSold,
242        SUM(od.UnitPrice * od.Quantity - od.Discount) AS TotalDollarValue
243    FROM
244        suppliers AS s, products AS p, orderdetails AS od, orders AS o
245    WHERE
246        s.SupplierID = p.SupplierID AND
247        p.ProductID = od.ProductID AND
248        o.OrderID = od.OrderID
249    GROUP BY
250        s.SupplierID;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

SupplierID	CompanyName	Address	City	Region	PostalCode	Country	ProductsSold	TotalDollarValue
1	Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	2213	35916.8000
2	New Orleans Cajun Delights	P.O. Box 78934	New Orleans	LA	70117	USA	1735	33351.9500
3	Grandma Kelly's Homestead	707 Oxford Rd.	Ann Arbor	MI	48104	USA	1436	43569.0000
4	Tokyo Traders	9-8 Sekimai Musashino-shi	Tokyo	NULL	100	Japan	1134	33533.2000
5	Cooperativa de Quesos 'Las Cabras'	Calle del Rosal 4	Oviedo	Asturias	33007	Spain	1050	26768.8000
6	Mayumi's	92 Setsuko Chuo-ku	Osaka	NULL	545	Japan	1417	15678.3000
7	Pavlova, Ltd.	74 Rose St. Moonie Ponds	Melbourne	Victoria	3058	Australia	3937	115386.0500
8	Specialty Biscuits, Ltd.	29 King's Way	Manchester	NULL	M14 GSD	UK	2851	48793.8000
9	PB Knckebrd AB	Kaloadagatan 13	Gteborg	NULL	S-345 67	Sweden	928	12072.6000
10	Refrescos Americanas LTDA	Av. das Americanas 12.890	So Paulo	NULL	5442	Brazil	1125	4782.6000

e. The final query to fetch the Supplier Information for the given period

```
252 •  SELECT
253        s.CompanyName,
254        s.Address,
255        s.City,
256        s.Region,
257        s.PostalCode,
258        s.Country,
259        SUM(od.Quantity) AS ProductsSold,
260        SUM(od.UnitPrice * od.Quantity - od.Discount) AS TotalDollarValue
261    FROM
262        suppliers AS s, products AS p, orderdetails AS od, orders AS o
263    WHERE
264        s.SupplierID = p.SupplierID AND
265        p.ProductID = od.ProductID AND
266        o.OrderID = od.OrderID AND
267        o.OrderDate BETWEEN "1997-01-07" AND "1997-01-10"
268    GROUP BY
269        s.SupplierID
270    ORDER BY
271        s.CompanyName;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CompanyName	Address	City	Region	PostalCode	Country	ProductsSold	TotalDollarValue
Cooperativa de Quesos 'Las Cabras'	Calle del Rosal 4	Oviedo	Asturias	33007	Spain	30	504.0000
Exotic Liquids	49 Gilbert St.	London	NULL	EC1 4SD	UK	10	144.0000
Forts d'rables	148 rue Chasseur	Ste-Hyacinthe	Qubec	J2S 7S8	Canada	35	1379.0000
Gai pturage	Bat. B 3, rue des Alpes	Annecy	NULL	74000	France	25	1100.0000
Leka Trading	471 Serangoon Loop, Suite #402	Singapore	NULL	0512	Singapore	40	620.0000
Ma Maison	2960 Rue St. Laurent	Montral	Qubec	H1J 1C3	Canada	6	35.4000
Mayumi's	92 Setsuko Chuo-ku	Osaka	NULL	545	Japan	12	223.2000
New England Seafood Cannery	Order Processing Dept. 2100 Pa...	Boston	MA	02134	USA	27	221.9000
Norske Meierier	Hatlevegen 5	Sandvika	NULL	1320	Norway	79	788.0000

Note:

I calculated in excel the ProductsSold & TotalDollarValue for Supplier "**Cooperativa de Quesos 'Las Cabras'**" and "**Gai pturage**", it matches with the above query's result.