

pgAdmin 4

pgAdmin

FileObjectToolsHelp

Browser

Collations

Domains

FTS Configurations

FTS Dictionaries

FTS Parsers

FTS Templates

Foreign Tables

Functions

Materialized Views

Operators

Procedures

Sequences

Tables (14)

categories

customer\_customer\_demo

customer\_demographics

customers

employee\_territories

employees

Columns

Constraints

Indexes

RLS Policies

Rules

Triggers

order\_details

orders

products

region

shippers

suppliers

territories

us\_states

Trigger Functions

Types

Views

Subscriptions

postgres

Login/Group Roles

Tablespaces

DashboardPropertiesSQLStatisticsDependenciesDependents

19290337/postgres@PostgreSQL 14 \*

19290337/postgres@PostgreSQL 14

Query EditorQuery History

1select order\_id "orderid",  
2(unit\_price \* quantity) "totalprice",  
3(unit\_price\*quantity\*(1-discount)) "totalwithdiscountprice"  
4from "19290337\_Project1".order\_details  
5order by "totalwithdiscountprice" desc ,"orderid" asc  
6limit 10

Data OutputExplainMessagesNotifications

	orderid smallint	totalprice double precision	totalwithdiscountprice double precision
1	10981	15810	15810
2	10865	15810	15019.499988220632
3	10417	10540.00015258789	10540.00015258789
4	10889	10540	10540
5	10897	9903.200073242188	9903.200073242188
6	10353	10540.00015258789	8432.000090658665
7	10424	10329.200149536133	8263.360088845491
8	10540	7905	7905
9	10817	7905	7905
10	10816	7905	7509.749994110316

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```

1 (select shipped_date shippeddate,
2 OD.order_id orderid,
3 sum((unit_price*quantity)) totalprice,
4 extract (year from shipped_date) as year
5 from "19290337_Project1".order_details as OD,"19290337_Project1".orders O
6 where(OD.order_id = O.order_id)
7 and (shipped_date between '1997-12-30' and '1998-1-5')
8 group by OD.order_id,shipped_date
9 order by shipped_date asc, OD.order_id asc)
10 union all
11 (select shipped_date shippeddate,
12 OD.order_id orderid,
13 sum((unit_price*quantity)) totalprice,
14 extract (year from shipped_date) as year
15 from "19290337_Project1".order_details as OD,"19290337_Project1".orders O
16 where(OD.order_id = O.order_id)
17 and (shipped_date is null)
18 group by OD.order_id,shipped_date
19 having sum((unit_price*quantity)) > 4000
20 order by shipped_date asc, OD.order_id asc)

```

	shippeddate date	orderid smallint	totalprice double precision	year numeric
1	1997-12-31	10789	3687.000045776367	1997
2	1997-12-31	10792	399.8499994277954	1997
3	1997-12-31	10801	4035.800018310547	1997
4	1998-01-01	10791	1926.0600051879883	1998
5	1998-01-02	10771	344	1998
6	1998-01-02	10794	393.4499988555908	1998
7	1998-01-02	10802	3923.7499809265137	1998
8	1998-01-05	10797	420	1998
9	1998-01-05	10798	446.59999084472656	1998
10	1998-01-05	10799	1585	1998
11	1998-01-05	10800	1632.149998664856	1998
12	1998-01-05	10806	572.0999984741211	1998
13	[null]	11008	4903.499893188477	[null]
14	[null]	11072	5217.999884741211	[null]

pgAdmin 4

pgAdminFileObjectToolsHelp

Browser

Servers (1)

- PostgreSQL 14
  - Databases (2)
    - 19290337
      - Casts
      - Catalogs
      - Event Triggers
      - Extensions
      - Foreign Data Wrappers
      - Languages
      - Publications
      - Schemas (1)
        - 19290337\_Project1
          - Aggregates
          - Collations
          - Domains
          - FTS Configurations
          - FTS Dictionaries
          - FTS Parsers
          - FTS Templates
          - Foreign Tables
          - Functions
          - Materialized Views
          - Operators
          - Procedures
          - Sequences
          - Tables (14)
            - categories
            - customer\_customer\_demo
            - customer\_demographics
            - customers
            - employee\_territories
            - employees
              - Columns
              - Constraints
              - Indexes
              - RLS Policies
              - Rules
              - Triggers
              - order\_details

DashboardPropertiesSQLStatisticsDependenciesDependents19290337/postgres@PostgreSQL 14 \*

Query EditorQuery History

```
1 select category_name,
2 Cat.category_id,
3 product_name,
4 product_id,
5 unit_price,
6 units_in_stock,
7 units_on_order,
8 reorder_level,
9 discontinued
10 from "19290337_Project1".categories as Cat
11 join "19290337_Project1".products as Pro on Cat.category_id = Pro.category_id
12 where (discontinued = 0 ) and (reorder_level > 20) and (units_on_order=0)
13 order by product_id
```

Data OutputExplainMessagesNotifications

	category_name character varying (15)	category_id smallint	product_name character varying (40)	product_id smallint	unit_price real	units_in_stock smallint	units_on_order smallint	reorder_level smallint	discontinued integer
1	Condiments		2 Grandma's Boysenberry Spread	6	25	120	0	25	0
2	Grains/Cereals		5 Gustaf's Knäckebröd	22	21	104	0	25	0
3	Grains/Cereals		5 Tunnbröd	23	9	61	0	25	0
4	Confections		3 NuNuCa Nuß-Nougat-Creme	25	14	76	0	30	0
5	Confections		3 Schoggi Schokolade	27	43.9	49	0	30	0
6	Seafood		8 Boston Crab Meat	40	18.4	123	0	30	0
7	Confections		3 Valkoinen suklaa	50	16.25	65	0	30	0
8	Grains/Cereals		5 Filo Mix	52	7	38	0	25	0
9	Condiments		2 Sirop d'érable	61	28.5	113	0	25	0
10	Beverages		1 Rhönbräu Klosterbier	75	7.75	125	0	25	0

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pgAdmin 4

FileObjectToolsHelp

Browsers

Servers (1)

- PostgreSQL 14
  - Databases (2)
    - 19290337
      - Casts
      - Catalogs
      - Event Triggers
      - Extensions
      - Foreign Data Wrappers
      - Languages
      - Publications
      - Schemas (1)
        - 19290337\_Project1
          - Aggregates
          - Collations
          - Domains
          - FTS Configurations
          - FTS Dictionaries
          - FTS Parsers
          - FTS Templates
          - Foreign Tables
          - Functions
          - Materialized Views
          - Operators
          - Procedures
          - Sequences
          - Tables (14)
            - categories
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            - customer\_demographics
            - customers
            - employee\_territories
            - employees
              - Columns
              - Constraints
              - Indexes
              - RLS Policies
              - Rules
              - Triggers
            - order\_details

DashboardPropertiesSQLStatisticsDependenciesDependents19290337/postgres@PostgreSQL 14 \*

19290337/postgres@PostgreSQL 14

Query EditorQuery History

```
1 select ship_name,
2 ship_country,
3 Cus.customer_id,
4 Cus.company_name,
5 concat(first_name, ' ',last_name) as salesperson,
6 S.phone phone,
7 Pro.product_id,
8 product_name,
9 freight
10 from "19290337_Project1".customers as Cus,"19290337_Project1".orders as O,"19290337_Project1".order_details as OD,"19290337_Project1".products as Pro,
11 "19290337_Project1".employees as E,"19290337_Project1".shippers as S
12 where (Cus.customer_id = O.customer_id)
13 and (O.order_id = OD.order_id)
14 and (OD.product_id = Pro.product_id)
15 and (E.employee_id = O.employee_id)
16 and (S.shipper_id = O.ship_via)
17 and (ship_country like '%y' and Cus.customer_id like 'M%' and freight>70)
18 order by ship_country desc, salesperson asc, freight asc, product_id asc
```

Data Output

ExplainMessagesNotifications

	ship_name	ship_country	customer_id	company_name	salesperson	phone	product_id	product_name	freight
	character varying (40)	character varying (15)	character	character varying (40)	text	character varying (24)	smallint	character varying (40)	real
1	Magazzini Alimentari Riuniti	Italy	MAGAA	Magazzini Alimentari Riuniti	Andrew Fuller	(503) 555-3199	2	Chang	76.33
2	Magazzini Alimentari Riuniti	Italy	MAGAA	Magazzini Alimentari Riuniti	Andrew Fuller	(503) 555-3199	67	Laughing Lumberjack Lager	76.33
3	Magazzini Alimentari Riuniti	Italy	MAGAA	Magazzini Alimentari Riuniti	Andrew Fuller	(503) 555-9831	26	Gumbär Gummibärchen	155.97
4	Magazzini Alimentari Riuniti	Italy	MAGAA	Magazzini Alimentari Riuniti	Andrew Fuller	(503) 555-9831	42	Singaporean Hokkien Fried Mee	155.97
5	Magazzini Alimentari Riuniti	Italy	MAGAA	Magazzini Alimentari Riuniti	Andrew Fuller	(503) 555-9831	49	Maxilaku	155.97
6	Magazzini Alimentari Riuniti	Italy	MAGAA	Magazzini Alimentari Riuniti	Margaret Peacock	(503) 555-9931	36	Inlaagd Sili	70.09
7	Magazzini Alimentari Riuniti	Italy	MAGAA	Magazzini Alimentari Riuniti	Margaret Peacock	(503) 555-9931	39	Chartreuse verte	70.09
8	Magazzini Alimentari Riuniti	Italy	MAGAA	Magazzini Alimentari Riuniti	Margaret Peacock	(503) 555-9931	72	Mozzarella di Giovanni	70.09
9	Morgenstern Gesundkost	Germany	MORGK	Morgenstern Gesundkost	Andrew Fuller	(503) 555-9931	28	Rössle Sauerkraut	125.77
10	Morgenstern Gesundkost	Germany	MORGK	Morgenstern Gesundkost	Andrew Fuller	(503) 555-9931	62	Tarte au sucre	125.77
11	Morgenstern Gesundkost	Germany	MORGK	Morgenstern Gesundkost	Steven Buchanan	(503) 555-9831	59	Raclette Courdavault	127.34
12	Morgenstern Gesundkost	Germany	MORGK	Morgenstern Gesundkost	Steven Buchanan	(503) 555-9831	63	Veggie-spread	127.34
13	Morgenstern Gesundkost	Germany	MORGK	Morgenstern Gesundkost	Steven Buchanan	(503) 555-9831	72	Mozzarella di Giovanni	127.34
14	Morgenstern Gesundkost	Germany	MORGK	Morgenstern Gesundkost	Steven Buchanan	(503) 555-9831	76	Lakkalikööri	127.34

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pgAdmin 4

FileObjectToolsHelp

Browserservers (1)PostgreSQL 14Databases (2)19290337CastsCatalogsEvent TriggersExtensionsForeign Data WrappersLanguagesPublicationsSchemas (1)19290337\_Project1AggregatesCollationsDomainsFTS ConfigurationsFTS DictionariesFTS ParsersFTS TemplatesForeign TablesFunctionsMaterialized ViewsOperatorsProceduresSequencesTables (14)categoriescustomer\_customer\_democustomer\_demographicscustomersemployee\_territoriesemployeesColumnsConstraintsIndexesRLS PoliciesRulesTriggersorder\_details

DashboardPropertiesSQLStatisticsDependenciesDependents19290337/post...19290337/post...19290337/postgres@PostgreSQL 14 \*

19290337/postgres@PostgreSQL 14

Query EditorQuery History

```
1 (select table_name as tablename,
2 city,
3 company_name,
4 contact_name
5 from information_schema.tables,"19290337_Project1".customers
6 where table_name = 'customers' and contact_name like '%w%'
7 )
8 union all
9 (select table_name as tablename,
10 city,
11 company_name,
12 contact_name
13 from information_schema.tables, "19290337_Project1".suppliers
14 where table_name = 'suppliers' and contact_name like '%g%'
15 )
16 order by contact_name
```

Data OutputExplainMessagesNotifications

	tablename name	city character varying (15)	company_name character varying (40)	contact_name character varying (30)
1	customers	Lander	Split Rail Beer & Ale	Art Braunschweiger
2	customers	Bruxelles	Maison Dewey	Catherine Dewey
3	customers	London	Consolidated Holdings	Elizabeth Brown
4	customers	Eugene	Great Lakes Food Market	Howard Snyder
5	suppliers	Melbourne	Pavlova, Ltd.	Ian Devling
6	suppliers	Ann Arbor	Grandma Kelly's Homestead	Regina Murphy
7	customers	London	North/South	Simon Crowther
8	customers	London	B's Beverages	Victoria Ashworth
9	suppliers	Tokyo	Tokyo Traders	Yoshi Nagase
10	customers	Warszawa	Wolski Zajazd	Zbyszek Piestrzeniewicz

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pgAdmin 4

pgAdminFileObjectToolsHelp

Browser

Servers (1)

- PostgreSQL 14
  - Databases (2)
    - 19290337
      - Casts
      - Catalogs
      - Event Triggers
      - Extensions
      - Foreign Data Wrappers
      - Languages
      - Publications
      - Schemas (1)
        - 19290337\_Project1
          - Aggregates
          - Collations
          - Domains
          - FTS Configurations
          - FTS Dictionaries
          - FTS Parsers
          - FTS Templates
          - Foreign Tables
          - Functions
          - Materialized Views
          - Operators
          - Procedures
          - Sequences
          - Tables (14)
            - categories
            - customer\_customer\_demo
            - customer\_demographics
            - customers
            - employee\_territories
            - employees
              - Columns
              - Constraints
              - Indexes
              - RLS Policies
              - Rules
              - Triggers
              - order\_details

DashboardPropertiesSQLStatisticsDependenciesDependents19290337/post...19290337/post...19290337/postgres@PostgreSQL 14 \*

19290337/postgres@PostgreSQL 14

Query EditorQuery History

```
1 (select product_name as products_name,
2 unit_price
3 from "19290337_Project1".products
4 order by unit_price desc
5 limit 5)
6 union all
7 (select product_name as products_name,
8 unit_price
9 from "19290337_Project1".products
10 order by unit_price asc
11 limit 5)
12 order by unit_price desc
```

Data OutputExplainMessagesNotifications

	products_name character varying (40)	unit_price real
1	Côte de Blaye	263.5
2	Thüringer Rostbratwurst	123.79
3	Mishi Kobe Niku	97
4	Sir Rodney's Marmalade	81
5	Carnarvon Tigers	62.5
6	Tourtière	7.45
7	Filo Mix	7
8	Konbu	6
9	Guaraná Fantástica	4.5
10	Geitost	2.5

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pgAdmin 4

FileObjectToolsHelp

BrowseDashboardPropertiesSQLStatisticsDependenciesDependents19290337/postgres@PostgreSQL 14

Servers (1)

- PostgreSQL 14
  - Databases (2)
    - 19290337
      - Casts
      - Catalogs
      - Event Triggers
      - Extensions
      - Foreign Data Wrappers
      - Languages
      - Publications
      - Schemas (1)
        - 19290337\_Project1
          - Aggregates
          - Collations
          - Domains
          - FTS Configurations
          - FTS Dictionaries
          - FTS Parsers
          - FTS Templates
          - Foreign Tables
          - Functions
          - Materialized Views
          - Operators
          - Procedures
          - Sequences
          - Tables (14)
            - categories
            - customer\_customer\_demo
            - customer\_demographics
            - customers
            - employee\_territories
            - employees
              - Columns
              - Constraints
              - Indexes
              - RLS Policies
              - Rules
              - Triggers
              - order\_details

19290337/postgres@PostgreSQL 14

Query EditorQuery History

```
1 with x as (  
2 select extract (year from shipped_date) as shippedyear,  
3 category_name,  
4 sum(round((OD.unit_price*quantity*(1-discount))::numeric,2)) as categorysales  
5 from "19290337_Project1".orders as O,"19290337_Project1".order_details as OD,  
6 "19290337_Project1".products as P,"19290337_Project1".categories as C  
7 where (O.order_id = OD.order_id )  
8 and (P.product_id = OD.product_id)  
9 and (C.category_id = P.category_id)  
10 and (shipped_date > '1997-6-1')  
11 group by category_name,shippedyear  
12 )  
13  
14 select shippedyear,  
15 category_name,  
16 sum(categorysales)  
17 from x  
18 group by shippedyear,category_name  
19 order by shippedyear
```

Data OutputExplainMessagesNotifications

	shippedyear numeric	category_name character varying (15)	sum numeric
1	1997	Seafood	48821.32
2	1997	Produce	33730.58
3	1997	Condiments	32866.50
4	1997	Meat/Poultry	50011.76
5	1997	Confections	44025.07
6	1997	Grains/Cereals	35115.07
7	1997	Beverages	51266.31
8	1997	Dairy Products	73735.16
9	1998	Seafood	45759.98
10	1998	Confections	56520.39
11	1998	Produce	27959.65
12	1998	Grains/Cereals	25610.84
13	1998	Condiments	32014.83
14	1998	Meat/Poultry	56176.30
15	1998	Dairy Products	79490.02

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1)

19290337

Table1  $\leftarrow \Pi_{\text{order-id}, (\text{unit-price} * \text{quantity}), (\text{unit-price} * \text{quantity} * (1 - \text{discount}))} (\text{order-details})$

Result  $\leftarrow \rho_{(\text{orderid}, \text{totalprice}, \text{totalwithdiscountprice})} (\text{Table1})$

2)

$\rho_{OD}(\text{order-details})$

$\rho_O(\text{orders})$

temp  $\leftarrow \sigma_{(OD.order-id = O.order-id) \wedge (\text{shipped-date} > '1997-12-31') \wedge (\text{shipped-date} < '1998-1-5')}$

temp  $\leftarrow \rho_{\left. \begin{array}{l} OD.order-id \wedge \\ shipped-date \end{array} \right\} (temp)} \sum(\text{unit-price} * \text{quantity})$

temp  $\leftarrow \Pi_{\left. \begin{array}{l} (temp) \\ shipped-date, OD.order-id, \sum(\text{unit-price} * \text{quantity}) \end{array} \right\}}$

temp2  $\leftarrow \sigma_{(OD \times O)} \quad OD.order-id = O.order-id \wedge shipped-date = NULL$

temp2  $\leftarrow \rho_{\left. \begin{array}{l} OD.order-id \\ \wedge shipped-date \end{array} \right\} (temp2)} \sum(\text{unit-price} * \text{quantity})$

temp2  $\leftarrow \sigma_{(temp2)} \quad \sum(\text{unit-price} * \text{quantity}) > 4000$

temp2  $\leftarrow \Pi_{\left. \begin{array}{l} (temp2) \\ shipped-date, OD.order-id, \sum(\text{unit-price} * \text{quantity}) \end{array} \right\}}$

Result  $\leftarrow \rho_{\left. \begin{array}{l} (temp1 \cup temp2) \\ (shippeddate, orderid, totalprice) \end{array} \right\}}$

3)



3)

$\sigma_{\text{OD.order-id} \in (\text{temp2}) \wedge \text{shipped-date} \sum(\text{unit-price} * \text{quantity})}$   
 $\text{temp2} \leftarrow \sigma_{\sum(\text{unit-price} * \text{quantity}) > 4000}(\text{temp2})$   
 $\text{temp2} \leftarrow \pi_{\text{shipped-date, OD.order-id, } \sum(\text{unit-price} * \text{quantity})}(\text{temp2})$   
 $\text{Result} \leftarrow \rho_{(\text{temp1} \cup \text{temp2})}(\text{shipped-date, order-id, total-price})$   
 $P_p(\text{products}) \quad P_c(\text{categories})$

$\text{Joined} \leftarrow P \bowtie_C (P.\text{categories-id} = C.\text{categories-id})$

$\text{temp} \leftarrow \sigma_{\text{discontinued} = 0 \wedge \text{reorder-level} > 20 \wedge \text{units-on-order} = 0}(\text{Joined})$

$\text{Result} \leftarrow \pi_{\text{categories-name, C.categories-id, product-name, product-id, unit-price, units-on-order, reorder-level, discontinued}}(\text{temp})$

7)

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$$\text{temp1} \leftarrow P \quad \left( \pi_{\text{product-name, unit-price}}^{\text{(products)}} \right)$$

$$\text{temp2} \leftarrow \tau_{\text{unit-price}}(\text{temp1})$$

$$\text{temp3} \leftarrow \tau_{\text{unit-price}} \left( P_{\text{product-name, unit-price}} \left( \pi_{\text{product-name, unit-price}}^{\text{(products)}} \right) \right)$$

$$\text{Result} \leftarrow \text{temp3} \cup \text{temp2}$$

8)

$P_{OD}$  (order-details)     $P_P$  (products)  
 $P_O$  (orders)     $P_C$  (categories)

$temp \leftarrow \sigma_{(OD \times O \times P \times C)}$   
 $OD.order\_id = O.order\_id \wedge P.product\_id = OD.product\_id \wedge$   
 $C.category\_id = P.category\_id \wedge shipped\_date > '1997-6-1'$

$temp \leftarrow$ 

$category\_name \wedge$ $shipped\_year$	}	$(temp)$ $SUM(unit\_price * quantity * (1 - discount))$
--	---	--

$Result \leftarrow$ 

$P$	(	$\pi_{shipped\_date, category\_name, SUM(unit\_price * quantity * (1 - discount))}$ $(shipped\_year, category\_name, sum)$
-----	---	---

```
PS C:\Users\Faruk> & C:/Users/Faruk/AppData/Local/Microsoft/WindowsApps/python3.10.exe c:/Users/Faruk/Desktop/project1/19290337_Project_1.py
```

Question-1

ORDERID	TotalPrice	TotalwithDiscountPrice
10981	15810.0	15810.0
10865	15810.0	15019.499988220632
10417	10540.00015258789	10540.00015258789
10889	10540.0	10540.0
10897	9903.200073242188	9903.200073242188
10353	10540.00015258789	8432.000090658665
10424	10329.200149536133	8263.360088845491
10540	7905.0	7905.0
10817	7905.0	7905.0
10816	7905.0	7509.749994110316

Question-2


shipdate	orderid	totalprice	year
1997-12-31	10789	3687.000045776367	1997
1997-12-31	10792	399.8499994277954	1997
1997-12-31	10801	4035.800018310547	1997
1998-01-01	10791	1926.0600051879883	1998
1998-01-02	10771	344.0	1998
1998-01-02	10794	393.449998555908	1998
1998-01-02	10802	3923.7499809265137	1998
1998-01-05	10797	420.0	1998
1998-01-05	10798	446.59999084472656	1998
1998-01-05	10799	1585.0	1998
1998-01-05	10800	1632.149998664856	1998
1998-01-05	10806	572.0999984741211	1998
None	11008	4903.499893188477	None
None	11072	5217.999984741211	None

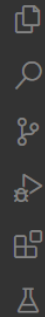
Question-3

category_name	category_id	product_id	unit_price	units_in_stock
reorder_level	discountinued			
Condiments	2	Grandma's Boysenberry Spread	6	
25.0	120	0		
Grains/Cereals	5	Gustaf's Knäckebröd	22	
21.0	104	0		
Grains/Cereals	5	Tunnbröd	23	
9.0	61	0		
Confections	3	NuNuCa Nuß-Nougat-Creme	25	
14.0	76	0		
Confections	3	Schoggi Schokolade	27	
43.9	49	0		
Seafood	8	Boston Crab Meat	40	
18.4	123	0		
Confections	3	Valkoinen suklaa	50	
16.25	65	0		
Grains/Cereals	5	Filo Mix	52	
7.0	38	0		
Condiments	2	Sirop d'érable	61	
28.5	113	0		
Beverages	1	Rhönbräu Klosterbier	75	
7.75	125	0		

Question-4

ship_name	ship_country	customer_id	company_name
salesperson <td>phone<td>product_id<td>product_name</td></td></td>	phone <td>product_id<td>product_name</td></td>	product_id <td>product_name</td>	product_name
freight			



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Python + - [ ] [x] [y] [z]

```
Question-5
Question-6
tablename          city          company_name      contact_name
customers           Lander       Split Rail Beer & Ale  Art Braunschweiger
customers           Bruxelles    Maison Dewey       Catherine Dewey
customers           London      Consolidated Holdings Elizabeth Brown
customers           Eugene     Great Lakes Food Market Howard Snyder
suppliers           Melbourne   Pavlova, Ltd.      Ian Devling
suppliers           Ann Arbor   Grandma Kelly's Homestead Regina Murphy
customers           London     North/South       Simon Crowther
customers           London     B's Beverages     Victoria Ashworth
suppliers           Tokyo      Tokyo Traders     Yoshi Nagase
customers           Warszawa   Wolski Zajazd     Zbyszek Piestrzeniewicz

Question-7
products_name      unit_price
Côte de Blaye      263.5
Thüringer Rostbratwurst 123.79
Mishi Kobe Niku    97.0
Sir Rodney's Marmalade 81.0
Carnarvon Tigers  62.5
Tourtière          7.45
Filo Mix           7.0
Konbu              6.0
Guaraná Fantástica 4.5
Geitost            2.5

Question-8
shippedyear        category_name      sum
1997               Seafood           48821.32
1997               Produce           33730.58
1997               Condiments        32866.50
1997               Meat/Poultry      50011.76
1997               Confections       44025.07
1997               Grains/Cereals    35115.07
1997               Beverages         51266.31
1997               Dairy Products    73735.16
1998               Seafood           45759.98
1998               Confections       56520.39
1998               Produce           27959.65
1998               Grains/Cereals    25610.84
1998               Condiments        32014.83
1998               Meat/Poultry      56176.30
1998               Dairy Products    79490.02
1998               Beverages         114160.17

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