






Output for the Solutions

- 1) List the top 10 customers by value ordered in the year 1998. Select customerid, company name order by value descending

	 customerid [PK] character 	companyname character varying (40) 	value double precision 
1	SAVEA	Save-a-lot Markets	42806.25003051758
2	ERNSH	Ernst Handel	42598.89994239807
3	QUICK	QUICK-Stop	40526.98992919922
4	HANAR	Hanari Carnes	24238.04997730255
5	HUNGO	Hungry Owl All-Night Grocers	22796.34010696411
6	RATTC	Rattlesnake Canyon Grocery	21725.59993171692
7	KOENE	Königlich Essen	20204.94993209839
8	FOLKO	Folk och få HB	15973.850053787231
9	WHITC	White Clover Markets	15278.899965286255
10	BOTTM	Bottom-Dollar Markets	12227.399951934814

- 2) List the top 10 customers by value ordered in the year 1998. Select customerid, company name order by value descending

	 year double precision 	country character varying (15) 	totalcustomers bigint 	totalsuppliers bigint 
1	1996	Germany	70	70
2	1996	USA	59	59
3	1996	Brazil	36	36
4	1996	France	35	35
5	1996	Austria	27	27
6	1996	UK	22	22
7	1996	Venezuela	21	21
8	1996	Mexico	20	20
9	1996	Ireland	19	19
10	1996	Spain	16	16
11	1996	Sweden	16	16

3) Make a report with customerid,company name, total order value by product by year, order by year descending and total order value descending

	year double precision	customerid character	companyname character varying (40)	productid smallint	totalvalue double precision
1	1998	HUNGO	Hungry Owl All-Night Grocers	29	17330.600128173828
2	1998	HANAR	Hanari Carnes	38	15810
3	1998	QUICK	QUICK-Stop	38	15810
4	1998	RATTC	Rattlesnake Canyon Grocery	38	10540
5	1998	GREAL	Great Lakes Food Market	38	7905
6	1998	KOENE	Königlich Essen	38	7905
7	1998	SAVEA	Save-a-lot Markets	29	7427.400054931641
8	1998	WHITC	White Clover Markets	38	6587.5
9	1998	FOLKO	Folk och få HB	29	6189.500045776367
10	1998	ERNSH	Ernst Handel	59	6050
11	1998	SAVEA	Save-a-lot Markets	59	5500





4) Make a customer grouping of low,medium,high based on value of orders and the percentage in each in the year 1998

	customerid [PK] character	companyname character varying (40)	ordervalue double precision	category text
1	HANAR	Hanari Carnes	24238.04997730255	High
2	HILAA	HILARION-Abastos	6132.29993057251	High
3	ERNSH	Ernst Handel	42598.89994239807	High
4	HUNGO	Hungry Owl All-Night Grocers	22796.34010696411	High
5	BONAP	Bon app'	7185.900007247925	High
6	KOENE	Königlich Essen	20204.94993209839	High
7	RICAR	Ricardo Adocicados	7312.000022888184	High
8	BOTTM	Bottom-Dollar Markets	12227.399951934814	High
9	WHITC	White Clover Markets	15278.899965286255	High
10	RICSU	Richter Supermarkt	5497.89994430542	High
11	FOLKO	Folk och få HB	15973.850053787231	High

5) Show all orders made on the last day of the month in 1998

	 orderid [PK] smallint 	customerid character 	orderdate date 	month double precision 
1	10432	SPLIR	1997-01-31	1
2	10460	FOLKO	1997-02-28	2
3	10461	LILAS	1997-02-28	2
4	10490	HILAA	1997-03-31	3
5	10491	FURIB	1997-03-31	3
6	10522	LEHMS	1997-04-30	4
7	10583	WARTH	1997-06-30	6
8	10584	BLONP	1997-06-30	6
9	10616	GREAL	1997-07-31	7
10	10617	GREAL	1997-07-31	7
11	10686	PICCO	1997-09-30	9

6) Make a report for customers with multiple orders in a 5 day period in the year 1998. Show both order dates in the 5 day period

	customerid character 	companyname character varying (40) 	orderdate date 	nextorderdate date 
1	ANTON	Antonio Moreno Taquería	1997-09-22	1997-09-25
2	AROUT	Around the Horn	1997-11-14	1997-11-17
3	BERGS	Berglunds snabbköp	1996-08-12	1996-08-14
4	BERGS	Berglunds snabbköp	1997-02-12	1997-02-13
5	BERGS	Berglunds snabbköp	1998-02-03	1998-02-06
6	BONAP	Bon app'	1997-11-05	1997-11-06
7	BONAP	Bon app'	1998-02-05	1998-02-09
8	BONAP	Bon app'	1998-03-06	1998-03-11
9	BOTTM	Bottom-Dollar Markets	1997-01-10	1997-01-10
10	BOTTM	Bottom-Dollar Markets	1998-03-12	1998-03-13
11	BOTTM	Bottom-Dollar Markets	1998-03-25	1998-03-27

7) Find the address for the last order shipped for each customer

	customerid character	companyname character varying (40)	shipaddress character varying (60)
1	ALFKI	Alfreds Futterkiste	Obere Str. 57
2	ANATR	Ana Trujillo Emparedados y ...	Avda. de la Constitución 2222
3	ANTON	Antonio Moreno Taquería	Mataderos 2312
4	AROUT	Around the Horn	Brook Farm Stratford St. Mary
5	BERGS	Berglunds snabbköp	Berguvsvägen 8
6	BLAUS	Blauer See Delikatessen	Forsterstr. 57
7	BLONP	Blondesddsl père et fils	24, place Kléber
8	BOLID	Bólido Comidas preparadas	C/ Araquil, 67
9	BONAP	Bon app'	12, rue des Bouchers
10	BOTTM	Bottom-Dollar Markets	23 Tsawassen Blvd.
11	BSBEV	B's Beverages	Fauntleroy Circus

8) Calculate the Year-on-Year value growth by product in 1998

	productid [PK] smallint	productname character varying (40)	Value 98 double precision	Value 97 double precision	growth numeric
1	5	Chef Anton's Gumbo Mix	3202.500057220459	405.6500072479248	689.47
2	13	Konbu	3954	848.4000005722046	366.05
3	37	Gravad lax	1768	675.9999923706055	161.54
4	67	Laughing Lumberjack Lager	1596	910	75.38
5	6	Grandma's Boysenberry Spre...	4125	2500	65.00
6	34	Sasquatch Ale	3430	2239.9999895095825	53.13
7	57	Ravioli Angelo	3451.5	2281.5000133514404	51.28
8	32	Mascarpone Fabioli	4704	3136	50.00
9	24	Guaraná Fantástica	2457	1756.799985408783	39.86
10	1	Chai	7182	5295.599981307983	35.62
11	49	Maxilaku	4340	3240	33.95





9) Select the customers for which the ordered value grew at least 10% IN 1998

	customerid [PK] character	companyname character varying (40)	growth numeric
1	SPECD	Spécialités du monde	4429.13
2	OCEAN	Océano Atlántico Ltda.	606.20
3	DRACD	Drachenblut Delikatessen	568.95
4	CACTU	Cactus Comidas para llevar	562.52
5	SANTG	Santé Gourmet	468.11
6	FRANS	Franchi S.p.A.	419.02
7	HANAR	Hanari Carnes	266.95
8	TRADH	Tradição Hipermercados	172.88
9	FRANR	France restauration	144.76
10	EASTC	Eastern Connection	111.98
11	KOENE	Königlich Essen	104.52





10) For each of the customers above, what is the top product that they ordered

	customerid character	companyname character varying (40)	growth numeric	productid smallint	productname character varying (40)	rank bigint
1	BLAUS	Blauer See Delikatessen	100.04	60	Camembert Pierrot	1
2	CACTU	Cactus Comidas para llevar	562.52	28	Rössle Sauerkraut	1
3	DRACD	Drachenblut Delikatessen	568.95	59	Raclette Courdavault	1
4	EASTC	Eastern Connection	111.98	7	Uncle Bob's Organic Dried P...	1
5	FRANR	France restauration	144.76	29	Thüringer Rostbratwurst	1
6	FRANS	Franchi S.p.A.	419.02	51	Manjimup Dried Apples	1
7	GODOS	Godos Cocina Típica	100.45	29	Thüringer Rostbratwurst	1
8	HANAR	Hanari Carnes	266.95	38	Côte de Blaye	1
9	KOENE	Königlich Essen	104.52	38	Côte de Blaye	1
10	OCEAN	Océano Atlántico Ltda.	606.20	20	Sir Rodney's Marmalade	1
11	SANTG	Santé Gourmet	468.11	38	Côte de Blaye	1




11) What is the 25th and 95th percentile quantity ordered and the product of the orders in the year 1997

	 productid smallint	 productname character varying (40)	 quantity smallint	 percentile integer
1	46	Spegesild	10	25
2	60	Camembert Pierrot	10	25
3	62	Tarte au sucre	10	25
4	23	Tunnbröd	10	25
5	44	Gula Malacca	10	25
6	32	Mascarpone Fabioli	10	25
7	60	Camembert Pierrot	10	25
8	55	Pâté chinois	10	25
9	41	Jack's New England Clam C...	10	25
10	4	Chef Anton's Cajun Seasoning	10	25
11	61	Sirop d'érable	10	25

12) Show number of orders that were delivered late by Employees vs All orders vs Percentage of late orders

	 employeeid smallint	 lateorders bigint	 allorders bigint	 perclate double precision
1	7	4	36	11.11
2	9	2	19	10.53
3	4	6	81	7.41
4	2	3	41	7.32
5	8	3	54	5.56
6	6	1	33	3.03
7	3	2	71	2.82
8	1	1	55	1.82

13) Find the second top order of the top product ordered in the year 1998

	productid smallint 	orderid smallint 	orderrank bigint 
1	38	10417	2
2	38	10353	2