Instituto Tecnológico de Culiacán



Carrera: Ingeniería en Sistemas Computacionales

Materia: Temas Selectos de Bases de Datos

Alumnos:

José Alfredo García Aguilar Cesar Alfredo Astorga Ochoa

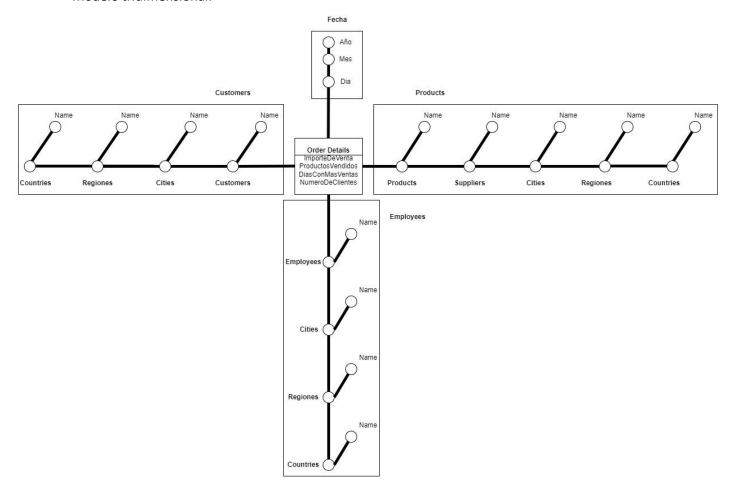
Trabajo: U2 T3 Herramienta OLAP-Bussiness Intelligence-NorthWind

Fecha: 25-Marzo-2022

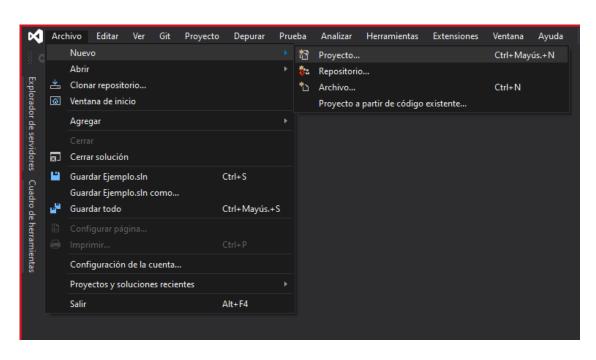
Horario de clase: 05:00 - 06:00 pm

Profesor: Daniel Esparza Soto

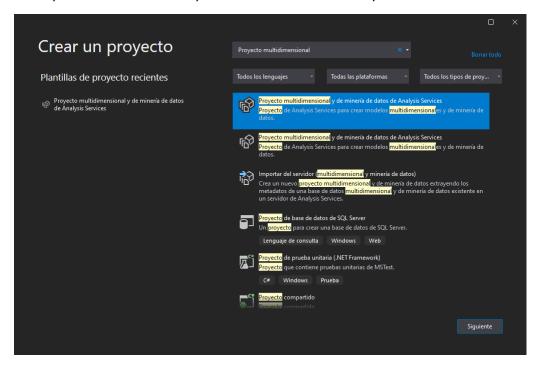
Modelo tridimensional:



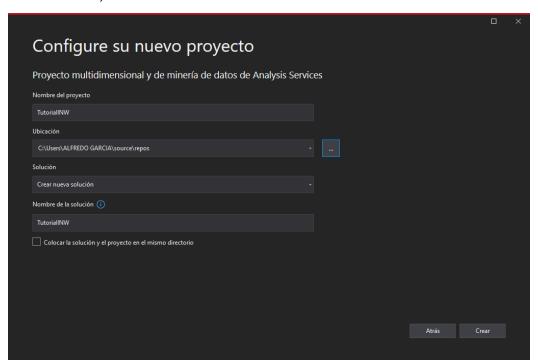
1 – Crear el proyecto



Elegimos Proyecto multidimensional y de minería de datos de Analysis Services

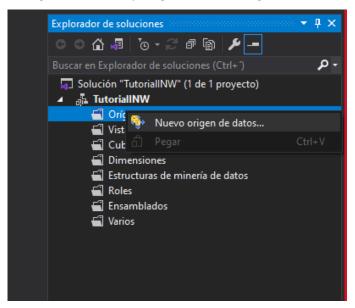


Le damos un nombre, en este caso TutorialINW



2 – Crear un Data Source para conectar con una base de datos

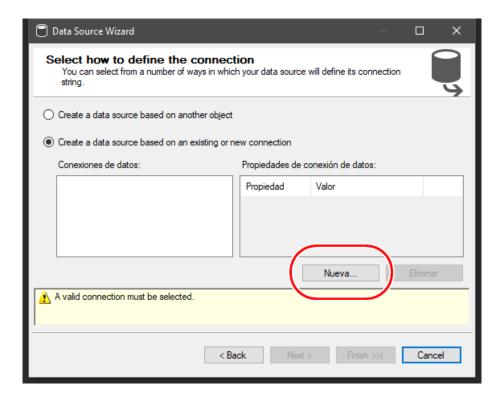
Click derecho sobre Orígenes de datos y elegimos Nuevo origen de datos



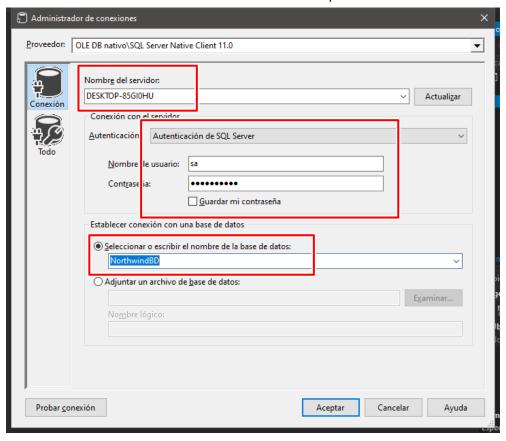
Click en Next



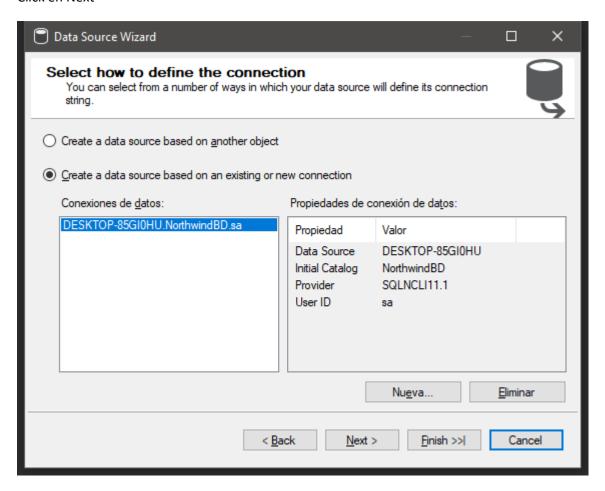
Click en Nueva



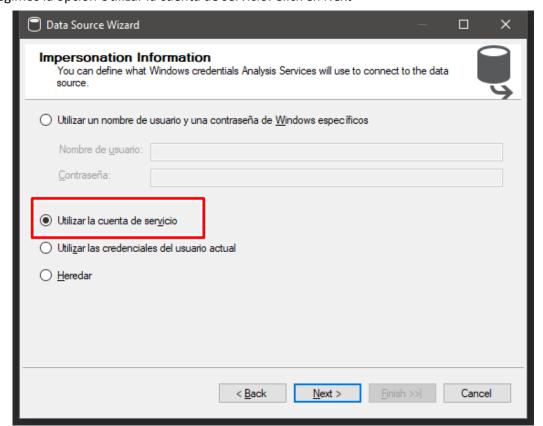
Elegir el nombre de nuestro servidor, después la opción de Autenticación con SQL Server, y le damos las credenciales al sa, en este caso con la clave Contraseña. Y abajo conectamos con nuestra base de datos en este caso NorthwindBD. Click en Aceptar



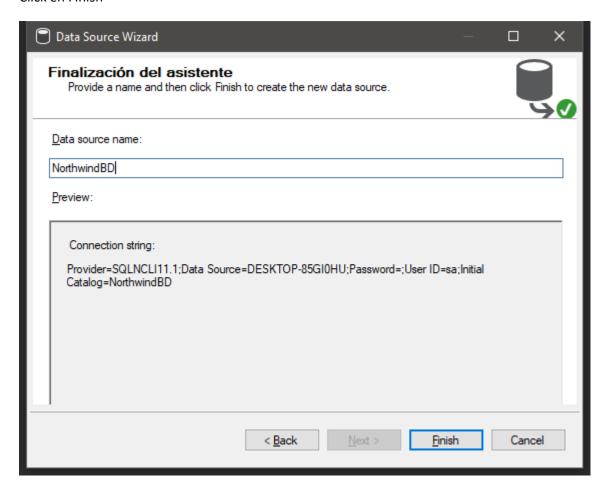
Click en Next



Elegimos la opción Utilizar la cuenta de servicio. Click en Next



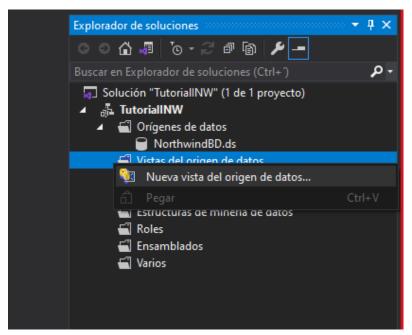
Click en Finish



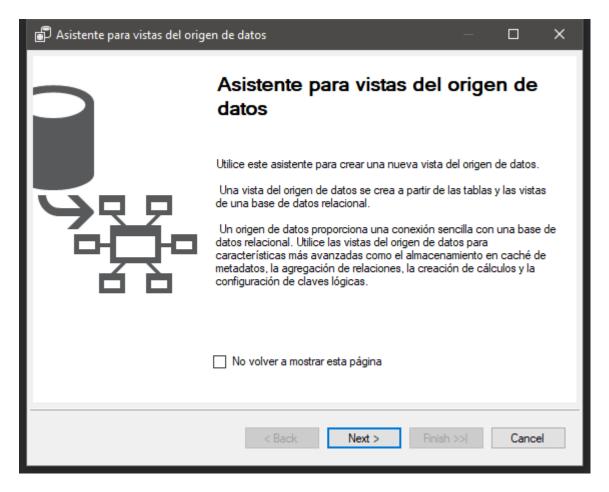
3 – Hacer la vista de origen de los datos

Vamos a Vistas de origen de datos y hacemos click derecho, elegimos Nueva vista de origen de

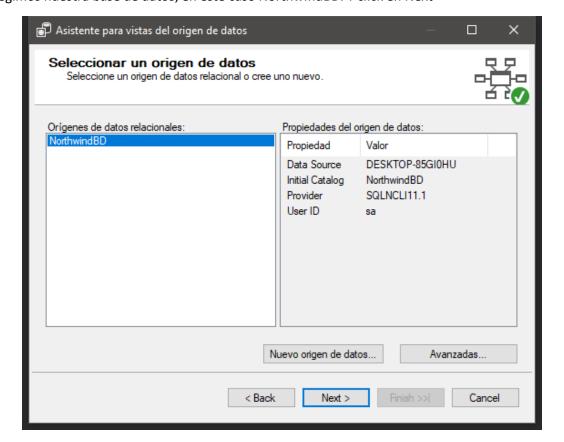
datos



Damos Next

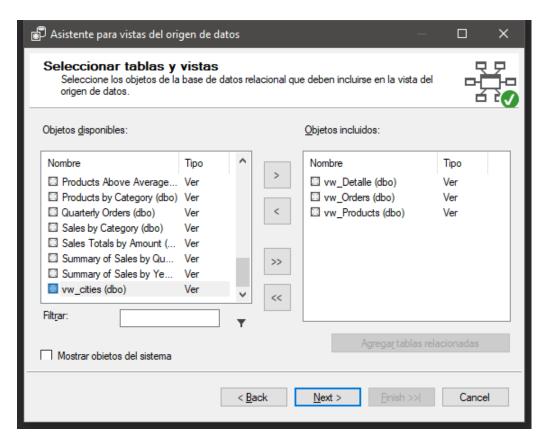


Elegimos nuestra base de datos, en este caso NorthwindBD. Y click en Next

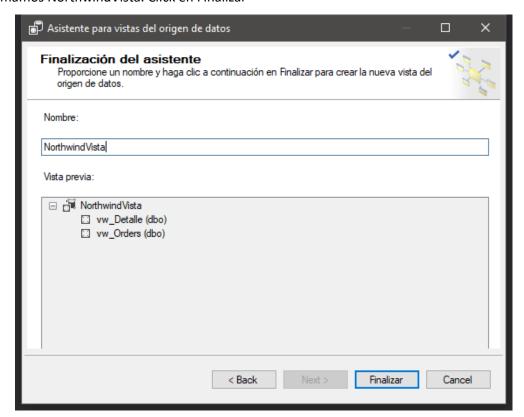


Buscamos las 3 vistas en los Objetos disponibles, y al encontrarlas le hacemos click a la flechita > para agregarlas a los objetos incluidos, quedando asi:

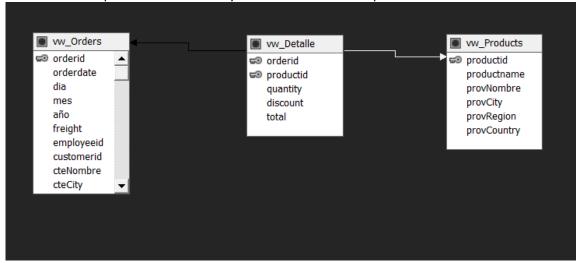
Click en Next



Le llamamos NorthwindVista. Click en Finalizar

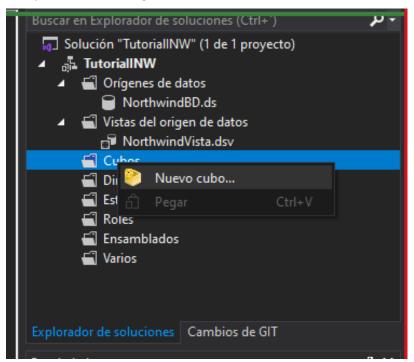


Conectamos las llaves de las relaciones usando flechitas. Click derecho en la tabla Detalle y la enlazamos con Orders pasandole Orderidm y también con Products pasandole Productid

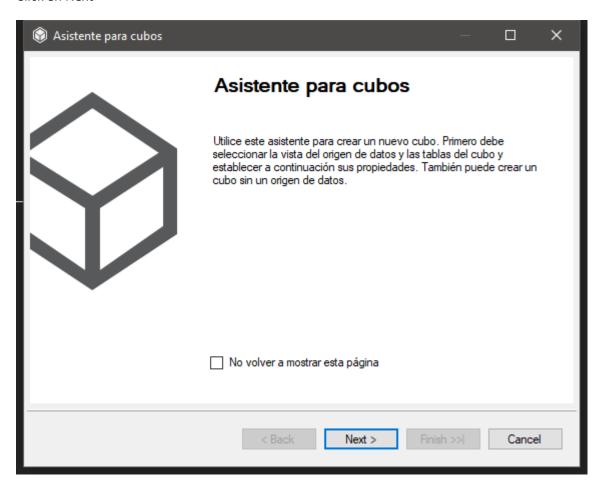


4 - Hacer el cubo

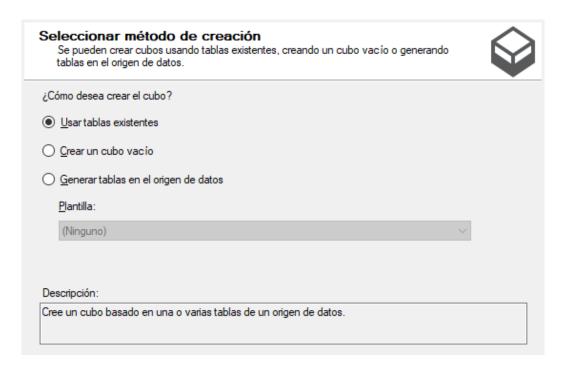
Click derecho en el apartado Cubo, elegimos Nuevo cubo



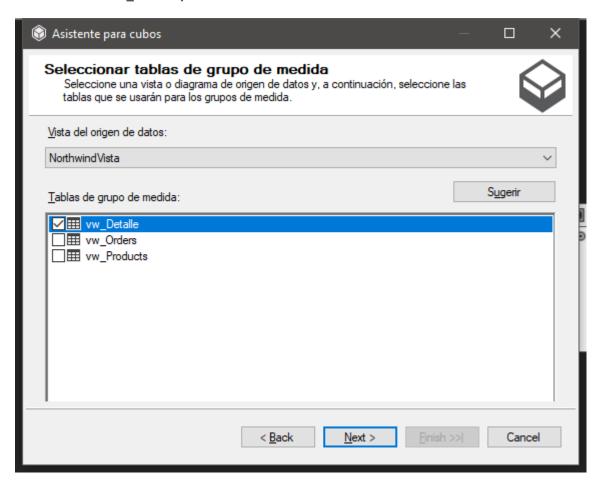
Click en Next



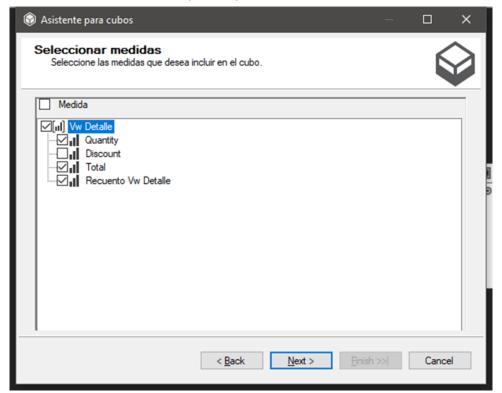
Elegimos en Usar tablas existentes. Damos Next



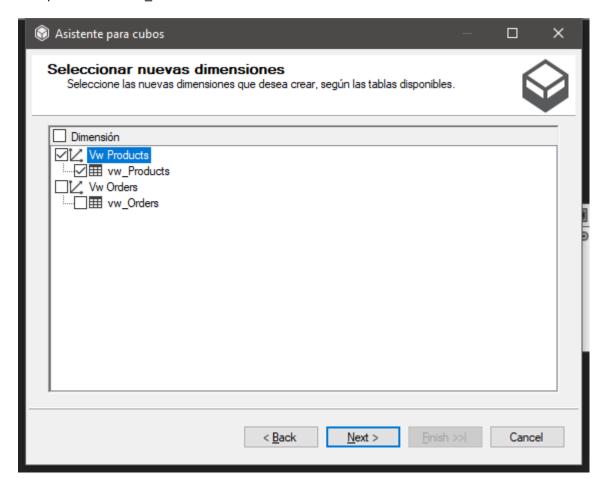
Palomeamos la vw_Detalle y le damos Next



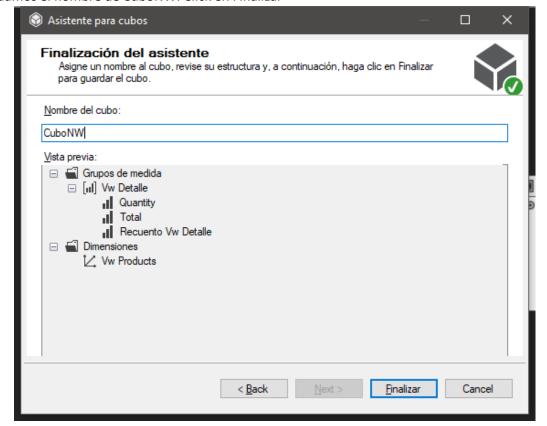
Palomeamos solo los atributos Quantity, Total y Recuento Vw Detalle. Click a Next



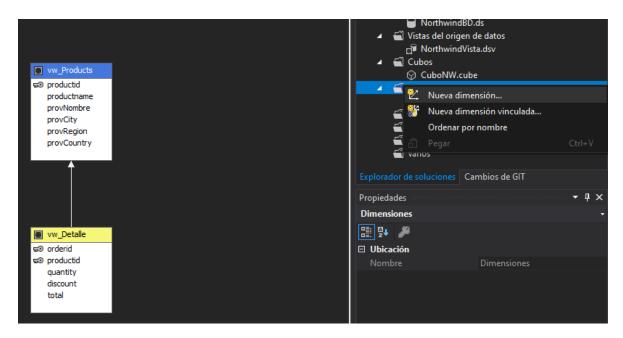
Solo palomeamos vw_Products. Damos Next



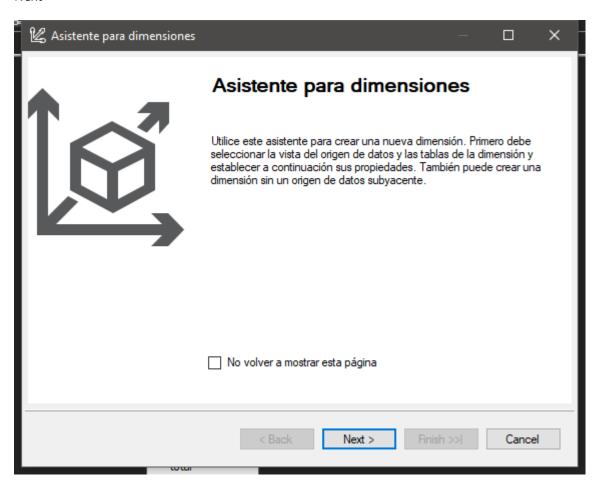
Le damos el nombre de CuboNW. Click en Finalizar



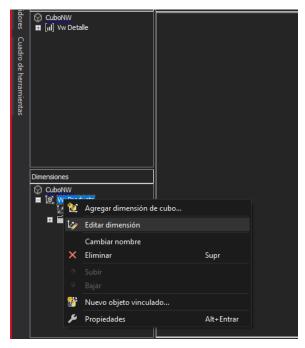
Ya que creamos el cubo, creamos las dimensiones. Click derecho a Dimensiones y elegimos Nueva dimensión



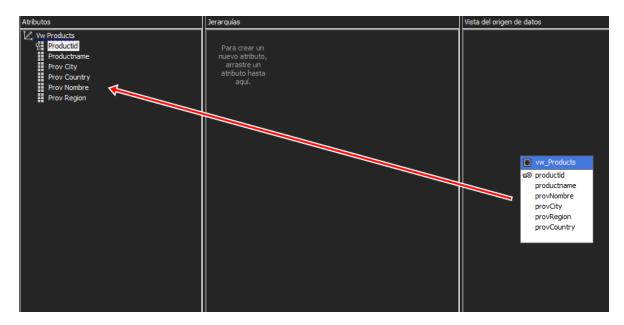
Next



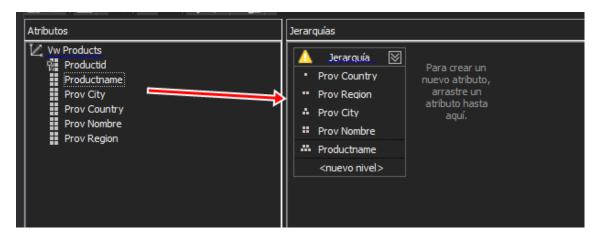
Editamos las dimensiones. Vamos a dimensiones y en vw_Products hacemos click derecho. Elegimos editar dimension



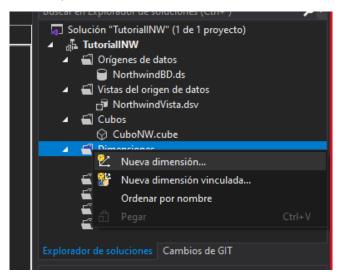
Arrastramos cada uno de los atributos de la vw_Products hacia el recuadro de Atributos



Ahora arrastramos Prov Country, Prov Region, Prov City, Prov Nombre y Productname hacia la zona de jerarquías, todo en una sola



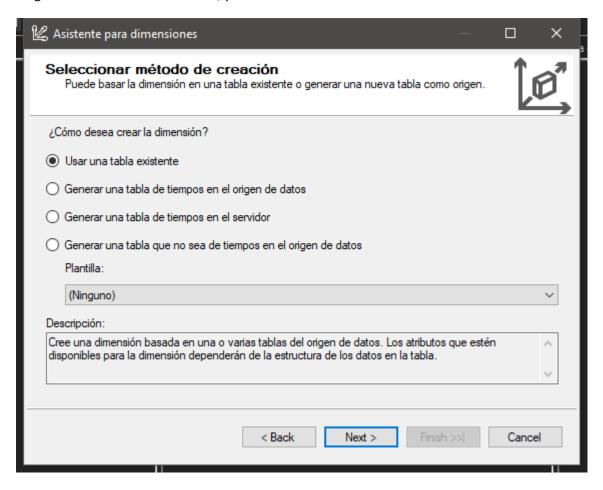
Click derecho en dimensiones, y Nueva dimensión



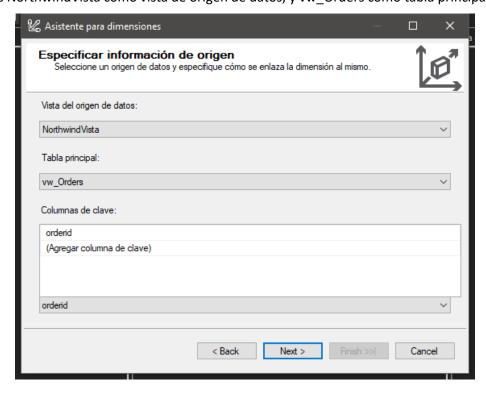
Click Next



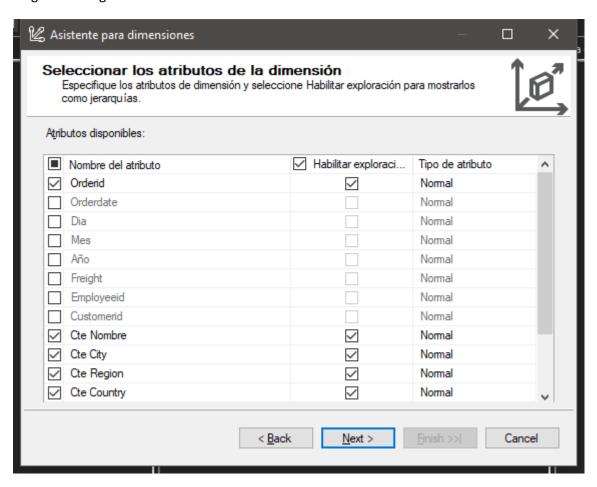
Elegimos Usar una tabla existente, y Next



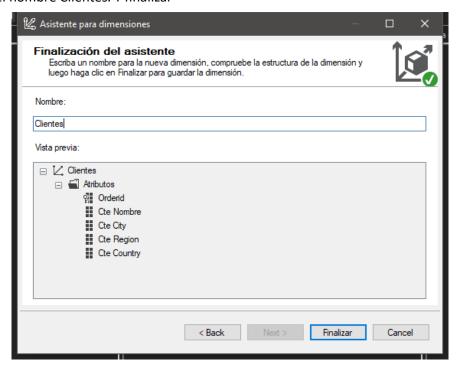
Elegimos NorthwindVista como vista de origen de datos, y vw_Orders como tabla principal. Next



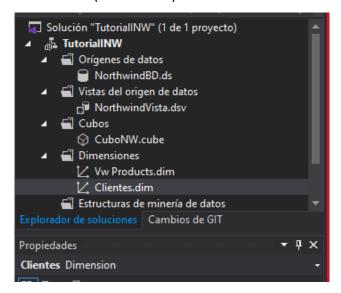
Elegimos los siguientes atributos. Next



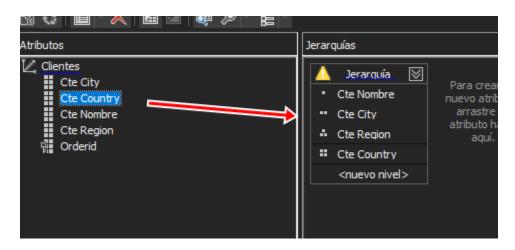
Le damos el nombre Clientes. Y finalizar



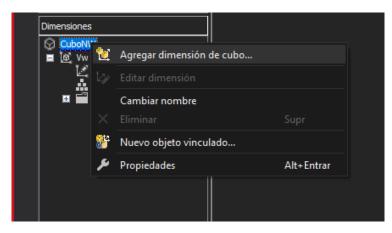
Doble click en la dimensión Clientes (Clientes.dim)



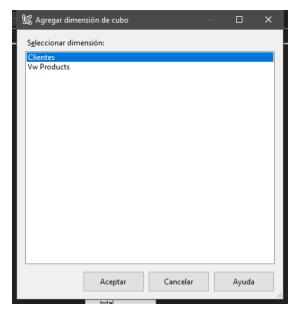
Arrastrar desde el espacio Atributos, los siguientes atributos hacia Jerarquias, todo en una sola jerarquía:



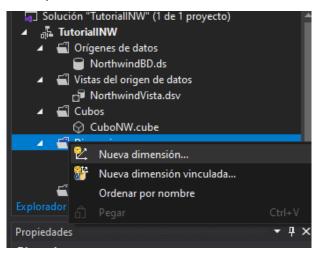
En el espacio Dimensiones, vamos a CuboNW y damos click derecho en Agregar dimensión de cubo.



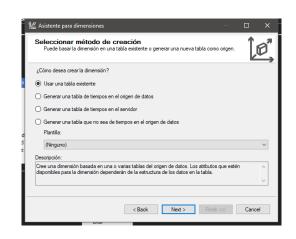
Elegimos Clientes y damos Aceptar

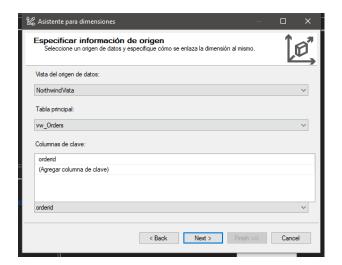


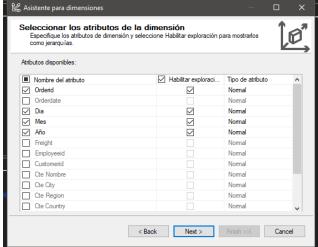
Se repiten los pasos para Tiempo

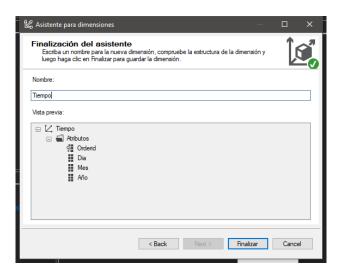




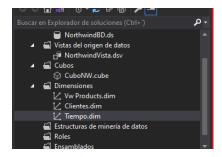








Doble click a la dimensión tiempo (Tiempo.dim)



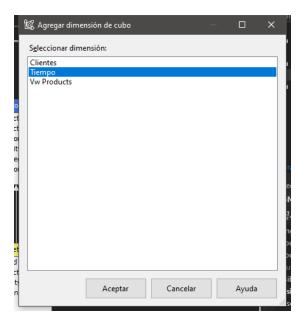
Arrastramos dia, mes y año a la misma jerarquía



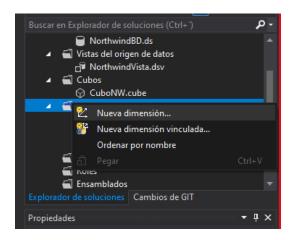
Vamos al Cubo CuboNW.cube. En el panel izquierdo de Dimensiones click derecho en CuboNW y elegimos Agregar dimensión de cubo



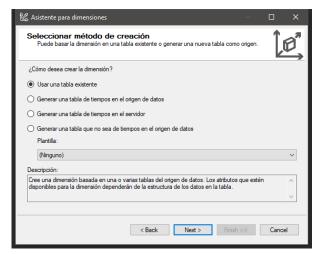
Elegimos Tiempo. Aceptar

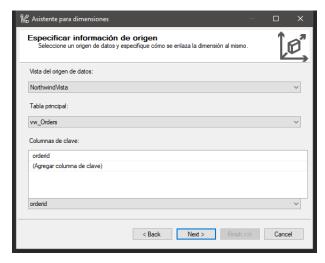


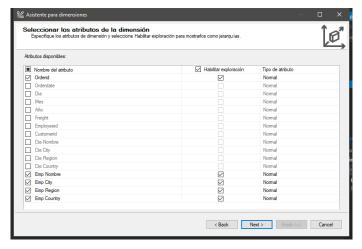
Crear la dimensión Empleados. Click derecho Dimensiones y Nueva dimension

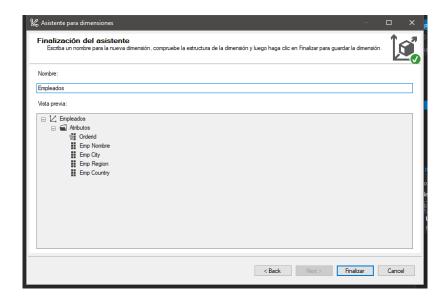




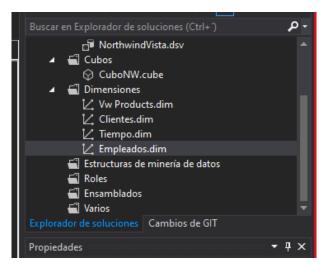




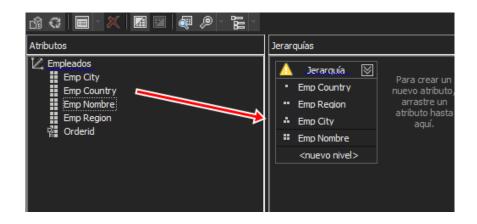


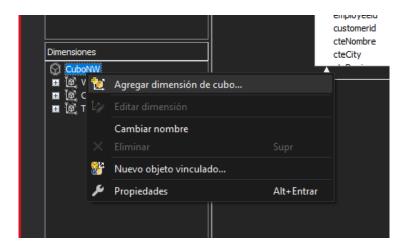


Elegimos Empleados.dim

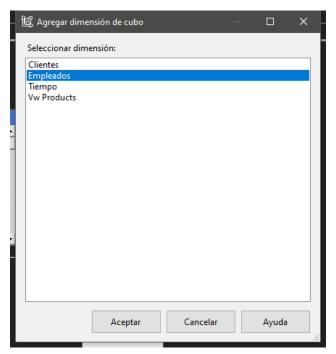


Arrastramos sus atributos como en los anteriores



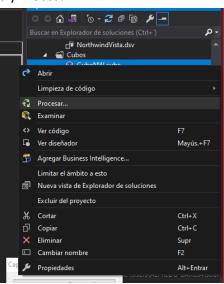


Agregamos Empleados. Damos Aceptar

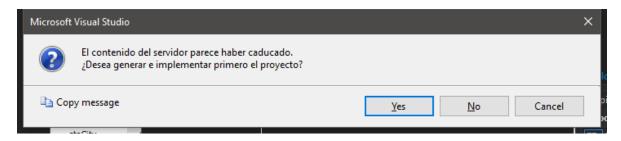


5 - Procesar el Cubo

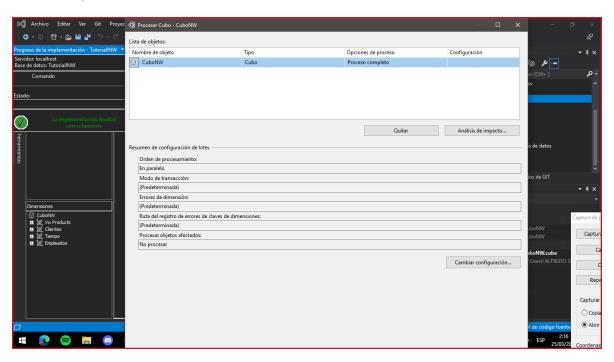
En CuboNW.cube, click derecho y Procesar



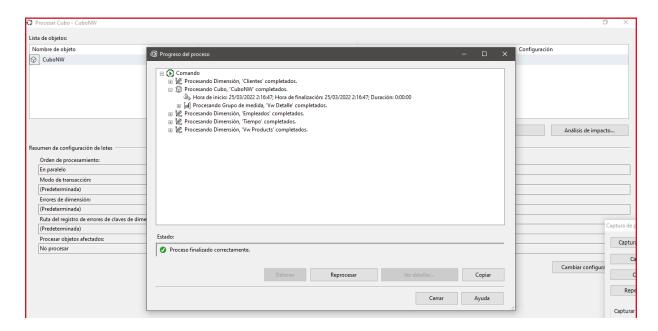
Aceptamos



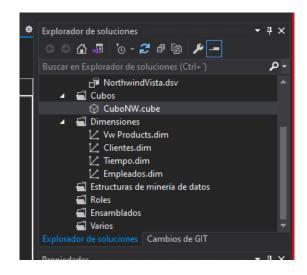
Damos en Ejecutar



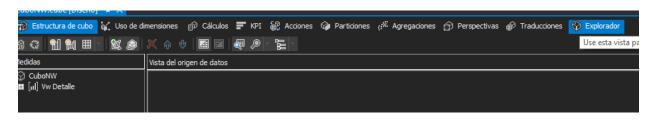
Damos en Cerrar



Vamos al CuboNW.cube con doble click

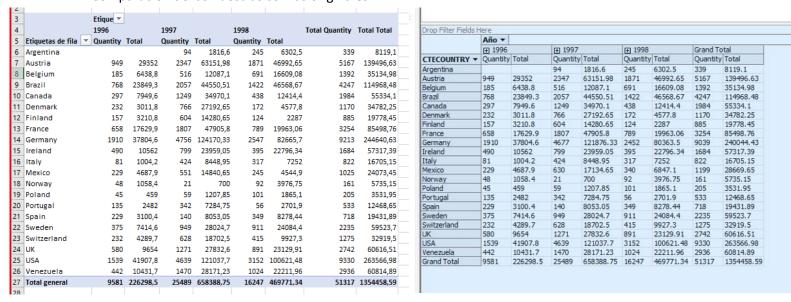


Vamos a Explorador



6 - Hacer consultas

Comparación de las nuestras con las originales



2																											
3		tiquet																									
4		pril		August		Decembe		Februar		January		July		June		March		May		Novembe		Octobe		Septemb		Total Quan	Total Total
	Etiquetas de 🔨 🖫		Total	Quanti	Total	Quantity		Quanti		Quanti		Quanti	Total	Quanti	Total	Quanti		Quanti		Quantity	Total	Quanti		Quantity	Total		
6	Argentina	54	606,5			1	12,5	73	1310,1	58	1728,2					129	3645,8		110			22	706			339	8119,1
7	Austria	915	28866,7	164	6483,1	935	21199,2	516	8171,4	818	19096,9	587	11584	39	647,8	304	6723,7	335	9398	342	20166	108	3600,7	104	3559,5	5167	139496,6
8	Belgium	159	2800,88	35	1434	84	3332	303	8050,5	182	5693	105	3730			400	6439,8	44	946					80	2708,8	1392	35134,98
9	Brazil	302	7382,75	579	14239	468	19857	583	10965,8	595	14370	340	6586,5	145	1353	472	23163,2	156	4547,6	183	3723,1	244	6007,3		2774	4247	114968,5
10	Canada	250	4326,7	197	4015	123	2252,8	67	1078	425	16213,7	215	5466	118	3306	289	9222,6			105	3118	195	6335,3			1984	55334,1
11	Denmark	18	990	50	870	339	7393,35			123	11283,2	79	877,5	24	835,2	258	6062,5	14	244,3	126	1754,2	109	3902	30	570		34782,25
12	Finland	42	886	86	2005,5	58	1132,35	222	4478	70	1092	17	484,8	44	2414			137	2890,3	70	1871,3	124	2112	15	412,35	885	19778,45
13	France	185	4481,8	162	6036,1	237	7727,1	492	10651,4	455	10557,6	158	3109,8	143	3213	366	11422,9	175	4715	495	14005	156	4093,7	230	5485,5		85498,76
14	Germany	1470	40626,7	785	15457	626	15623,5	729	32119	908	25144,4	556	16105	215	5954	674	13502,5	840	23194	506	11678	1088	30094	816	15142	9213	244640,6
15	Ireland	315	6108,5	98	1928	204	3127,8	216	19102,6	75	1748,5			103	3109	79	2248,2			60	997	216	7153,6	318	11794	1684	57317,39
16	Italy	84	2449	96	1776,5	63	1668,4	52	1235,6	238	4601,8	4	28	30	543	123	1655,2			52	1853,2	10	93,5	70	801	822	16705,15
17	Мехісо	140	7043,6	76	1748,5			50	539,5	92	1635	11	100,8	134	2920	90	1763,5	130	2816,5	50	1292	72	1303,2	180	2910,5	1025	24073,45
18	Norway	46	822,35	8	500	48	1058,4	32	670	27	2684,4															161	5735,15
19	Poland	81	1277,6			73	858,85	20	587,5			31	808													205	3531,95
20	Portugal	54	2633,9			28	843,2	28	851,2			16	256,5			149	2893,3	100	1836	30	154	77	1484,8	51	1515,8	533	12468,65
21	Spain	79	1123	48	3017	60	4035,8	156	4009,8	12	338,2			5	155	114	3145,64	34	749	10	136		982	110	1740,5	718	19431,89
22	Sweden	251	10196,3	178	3605,6	245	7634,1	407	6883,3	188	4135,75	60	724,5	147	4410	198	4670,5	185	5487,9	61	1459	250	5437,5	65	4879,2	2235	59523,7
23	Switzerland	264	9121,8			65	1174			80	2208	167	3115,7			175	2575,5	128	2409,8	350	7647,8			46	4666,9	1275	32919,5
24	UK	377	9185,81	89	1237,9	416	9226,25	211	2996,6	180	5758,5	10	493	122	2620	518	12840,4	239	5915,6	406	7692,4	125	2088,4	49	561,8	2742	60616,51
25	USA	1092	40345,4	245	6049,3	529	13842,3	862	28419,8	1043	32050,5	957	27323	366	7608	874	25476,4	369	8049,1	571	14860	1356	32746	1066	26797	9330	263567
26	Venezuela	414	9054,7	287	6188,9	280	6430,78	228	3649,1	298	7208	203	4864,1			623	12353,8	197	3413,1	174	3210	175	3391,9	57	1050,6	2936	60814,89
27	Total general	6592	190330	3183	76591	4882	128430	5247	145769	5867	167548	3516	85657	1635	****	5835	149805	3085	76722	3591	95617	4417	1E+05	3467	87369	51317	1E+06
28																											

	Mes *														
	April		August		Decembe	r	February		January		July		June		March
CTECOUNTRY -	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantit
Argentina	54	606.5			1	12.5	73	1310.1	58	1728.2					129
Austria	915	28866.7	164	6483.05	935	21199.2	516	8171.4	818	19096.9	587	11583.5	39	647.75	304
Belgium	159	2800.88	35	1434	84	3332	303	8050.5	182	5693	105	3730			400
Brazil	302	7382.75	579	14238.75	468	19857	583	10965.8	595	14370.02	340	6586.48	145	1352.5	472
Canada	250	4326.7	197	4015	123	2252.8	67	1078	425	16213.7	215	5466	118	3306	289
Denmark	18	990	50	870	339	7393.35			123	11283.2	79	877.5	24	835.2	258
Finland	42	886	86	2005.5	58	1132.35	222	4478	70	1092	17	484.8	44	2413.9	
France	185	4481.8	162	6036.1	237	7727.1	492	10651.4	455	10557.55	158	3109.8	143	3212.8	366
Germany	1410	39666.69	747	14371.15	626	15623.48	729	32118.96	891	24293.35	556	16105.25	215	5954.3	656
Ireland	315	6108.5	98	1928	204	3127.8	216	19102.64	75	1748.5			103	3109	79
Italy	84	2449	96	1776.45	63	1668.4	52	1235.6	238	4601.8	4	28	30	543	123
Mexico	200	8003.6	114	2834.45			50	539.5	109	2486	11	100.8	134	2920.45	108
Norway	46	822.35	8	500	48	1058.4	32	670	27	2684.4					
Poland	81	1277.6			73	858.85	20	587.5			31	808			
Portugal	54	2633.9			28	843.2	28	851.2			16	256.5			149
Spain	79	1123	48	3016.95	60	4035.8	156	4009.8	12	338.2			5	155	114
Sweden	251	10196.25	178	3605.6	245	7634.1	407	6883.3	188	4135.75	60	724.5	147	4410.15	198
Switzerland	264	9121.8			65	1174			80	2208	167	3115.7			175
UK	377	9185.81	89	1237.9	416	9226.25	211	2996.6	180	5758.5	10	493	122	2619.9	518
USA	1092	40345.42	245	6049.34	529	13842.3	862	28419.75	1043	32050.45	957	27323.1	366	7608.05	874
Venezuela	414	9054.7	287	6188.85	280	6430.78	228	3649.1	298	7208	203	4864.1			623
Grand Total	6592	190329.95	3183	76591.09	4882	128429.66	5247	145769.15	5867	167547.52	3516	85657.03	1635	39088	5835

2									
3	Etiquetas de co	olumna 🔻							
4	1996			1997		1998		Total Quantity	Total Total
5	Etiquetas de fila 🔻 Quantity	Tota	ıl	Quantity	Total	Quantity	Total		
6	AndrewFuller	1085	22834,7	2604	74958,6	2366	79955,96	6055	177749,26
7	AnneDodsworth	575	11365,7	955	29577,55	1140	42020,75	2670	82964
8	JanetLeverling	940	19231,8	4436	111788,61	2476	82030,89	7852	213051,3
9	LauraCallahan	923	23161,4	2843	59776,52	2147	50363,11	. 5913	133301,03
10	MargaretPeacock	2212	53114,8	5273	139477,7	2313	57594,95	9798	250187,45
11	MichaelSuyama	963	17731,1	1738	45992	826	14475	3527	78198,1
12	NancyDavolio	1620	38789	3877	97533,58	2315	65821,13	7812	202143,71
13	RobertKing	485	18104,8	2292	66689,14	1877	56502,05	4654	141295,99
14	StevenBuchanan	778	21965,2	1471	32595,05	787	21007,5	3036	75567,75
15	Total general	9581	226298,5	25489	658388,75	16247	469771,34	51317	1354458,59
16									

	Año ▼							
	1996		1997		1998		Grand To	tal
lombre Empleado ▼	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
Andrew Fuller	1085	22834.7	2604	74958.6	2366	79955.96	6055	177749.26
nne Dodsworth	575	11365.7	955	29577.55	1140	42020.75	2670	82964
anet Leverling	940	19231.8	4436	111788.61	2476	82030.89	7852	213051.3
aura Callahan	923	23161.4	2843	59776.52	2147	50363.11	5913	133301.03
Margaret Peacock	2212	53114.8	5273	139477.7	2313	57594.95	9798	250187.45
Nichael Suyama	963	17731.1	1738	45992	826	14475	3527	78198.1
lancy Davolio	1620	38789	3877	97533.58	2315	65821.13	7812	202143.71
lobert King	485	18104.8	2292	66689.14	1877	56502.05	4654	141295.99
teven Buchanan	778	21965.2	1471	32595.05	787	21007.5	3036	75567.75
Grand Total	9581	226298.5	25489	658388.75	16247	469771.34	51317	1354458.59

3		Etiquetas de columna							
4		1996		1997		1998		Total Quantity	Total Total
5	Etiquetas de fila	▼ Quantity	Total	Quantity	Total	Quantity	Total		
6	Alice Mutton	234	7300,8	527	19718,4	217	8463	978	35482,2
7	Aniseed Syrup	30	240	190	1760	108	1080	328	3080
8	Boston Crab Meat	204	1 2998,8	596	10474,3	303	5575,2	1103	19048,3
9	Camembert Pierrot	370	10064	665	21794	542	18428	1577	50286
10	Carnarvon Tigers	100	5 5300	282	17250	151	9437,5	539	31987,5
11	Chai	125	1800	304	5295,6	399	7182	828	14277,6
12	Chang	226	3435,2	435	7600	396	7524	1057	18559,2
13	Chartreuse verte	260	3830,4	283	4928,4	244	4392	793	13150,8
14	Chef Anton's Cajun Seasoning	107	7 1883,2	264	5737,6	82	1804	453	9424,8
15	Chef Anton's Gumbo Mix	129	2193	19	405,65	150	3202,5	298	5801,15
16	Chocolade			130	1440,75	8	102	138	1542,75
17	Côte de Blaye	140	29512	223	51962,2	260	68510	623	149984,2
18	Escargots de Bourgogne	155	1643	177	2345,25	202	2676,5	534	6664,75
19	Filo Mix	48	3 268,8	313	2142	139	973	500	3383,8
20	Flotemysost	263	L 4489,2	454	9034,3	342	7353	1057	20876,5
21	Geitost	197	7 394	356	814,5	202	505	755	1713,5
22	Genen Shouyu	25	310	97	1503,5			122	1813,5
23	Gnocchi di nonna Alice	96	5 2918,4	971	34754,8	196	7448	1263	45121,2
24	Gorgonzola Telino	444	4440	656	8020	297	3712,5	1397	16172,5
25	Grandma's Boysenberry Spread	36	720	100	2500	165	4125	301	7345
26	Gravad lax	29	603,2	28	676	68	1768	125	3047,2
27	Guaraná Fantástica	158	3 568,8	421	1756,8	546	2457	1125	4782,6
28	Gudbrandsdalsost	149	4291.2	430	15156	135	4860	714	24307.2

	Etiquetas de columna 🔻							
	Quantity			Total			Total Quantity	Total Total
Etiquetas de fila	▼ 1996	1997	1998	1996	1997	1998		
Alice Mutton	234	527	217	7300.8	19718.4	8463	978	35482.2
Aniseed Syrup	30	190	108	240	1760	1080	328	3080
Boston Crab Meat	204	596	303	2998.8	10474.3	5575.2	1103	19048.3
Camembert Pierrot	370	665	542	10064	21794	18428	1577	50286
Carnarvon Tigers	106	282	151	5300	17250	9437.5	539	31987.5
Chai	125	304	399	1800	5295.6	7182	828	14277.6
Chang	226	435	396	3435.2	7600	7524	1057	18559.2
Chartreuse verte	266	283	244	3830.4	4928.4	4392	793	13150.8
Chef Anton's Cajun Seasoning	107	264	82	1883.2	5737.6	1804	453	9424.8
Chef Anton's Gumbo Mix	129	19	150	2193	405.65	3202.5	298	5801.15
Chocolade		130	8		1440.75	102	138	1542.75
Côte de Blaye	140	223	260	29512	51962.2	68510	623	149984.2
Escargots de Bourgogne	155	177	202	1643	2345.25	2676.5	534	6664.75
Filo Mix	48	313	139	268.8	2142	973	500	3383.8
Flotemysost	261	454	342	4489.2	9034.3	7353	1057	20876.5
Geitost	197	356	202	394	814.5	505	755	1713.5
Genen Shouyu	25	97		310	1503.5		122	1813.5
Gnocchi di nonna Alice	96	971	196	2918.4	34754.8	7448	1263	45121.2
Gorgonzola Telino	444	656	297	4440	8020	3712.5	1397	16172.5
Grandma's Boysenberry Spread	36	100	165	720	2500	4125	301	7345
Gravad lax	29	28	68	603.2	676	1768	125	3047.2

3						
4	Total	Etiquetas de columna	¥			
5	Etiquetas de fila 🔻	1996		1997	1998	Total general
6						
7	JanetLeverling	1923	1,8	111788,61	82030,89	213051,3
8	Total Kirkland	1923	1,8	111788,61	82030,89	213051,3
9	■ London					
10	AnneDodsworth	1136	5,7	29577,55	42020,75	82964
11	MichaelSuyama	1773	1,1	45992	14475	78198,1
12	RobertKing	1810	4,8	66689,14	56502,05	141295,99
13	StevenBuchanan	2196	5,2	32595,05	21007,5	75567,75
14	Total London	6916	6,8	174853,74	134005,3	378025,84
15	■ Redmond					
16	MargaretPeacock	5311	4,8	139477,7	57594,95	250187,45
17	Total Redmond	5311	4,8	139477,7	57594,95	250187,45
18	■ Seattle					
19	LauraCallahan	2316	1,4	59776,52	50363,11	133301,03
20	NancyDavolio	387	789	97533,58	65821,13	202143,71
21	Total Seattle	6195	0,4	157310,1	116184,24	335444,74
22	∃ Tacoma					
23	AndrewFuller	2283	4,7	74958,6	79955,96	177749,26
24	Total Tacoma	2283	4,7	74958,6	79955,96	177749,26
25	Total general	22629	8,5	658388,75	469771,34	1354458,59
20						

Total	Etiquetas de	columna 💌			
Etiquetas de fila	1996		1997	1998	Total general
∃ Kirkland		19231.8	111788.61	82030.89	213051.3
Janet Leverling		19231.8	111788.61	82030.89	213051.3
London		69166.8	174853.74	134005.3	378025.84
Anne Dodswort	h	11365.7	29577.55	42020.75	82964
Michael Suyama	a	17731.1	45992	14475	78198.1
Robert King		18104.8	66689.14	56502.05	141295.99
Steven Buchana	n	21965.2	32595.05	21007.5	75567.75
■ Redmond		53114.8	139477.7	57594.95	250187.45
Margaret Peaco	ck	53114.8	139477.7	57594.95	250187.45
■ Seattle		61950.4	157310.1	116184.24	335444.74
Laura Callahan		23161.4	59776.52	50363.11	133301.03
Nancy Davolio		38789	97533.58	65821.13	202143.71
∃Tacoma		22834.7	74958.6	79955.96	177749.26
Andrew Fuller		22834.7	74958.6	79955.96	177749.26
Total general		226298.5	658388.75	469771.34	1354458.59

3											
4	Total	Etiquetas de colu 🕆									
5	Etiquetas de 🕆	AndrewFuller	AnneDodswo	JanetLeverl	LauraCallal	MargaretPeac	MichaelSuya	NancyDavo	RobertKii	StevenBucha	Total general
6	o 1996										
7	August	1814		3557,2	8485,8	3670,5	2595,4	6007,1	479,4		26609,4
8	December	6409,2	166	2758,8	6611,6	6440,8	5782,4	9557		13227,6	50953,4
9	July	1176	4955,3	2998,2	1726	12988,9	2587,9	2018,6		1741,2	30192,1
10	November	4759		3838	704,8	12017,4	2299,8	10261,2	11717,4	4106,4	49704
11	October	5725,7	6244,4	4317,6	385,2	14422,1		4061,4	4577,2	1470	41203,6
12	September	2950,8		1762	5248	3575,1	4465,6	6883,7	1330,8	1420	27636
13	Total 1996	22834,7	11365,7	19231,8	23161,4	53114,8	17731,1	38789	18104,8	21965,2	226298,5
14	o 1997										
15	April	14019,3	611	10297,35	800,5	14333,15	9690,74	240	5707,35		55699,39
16	August	57,5	1928	5881,8	4756,5	16766,79	3982,25	5119,1	7853,05	3636,7	49981,69
17	December	7834,75	1941,5	18494	4728,1	18843,25	7999,91	16077,25	928	629,5	77476,26
18	February	1584		10581,3	7764,4	13530,3	1351,6	2504,6	3891		41207,2
19	January	3150,2	1208,5	7477,9	6701,1	25620,1	1500	7331,6	13703,4		66692,8
20	July	10320	28	1109,15	3984,1	6104,8	1301	19997,88	6144,6	6475,4	55464,93
21	June	7058,6	3761,5	5871,6	2616,05	4232,4	4228,3	6112,65	2082	3124,9	39088
22	March	2905,1	1770,8	11599,4	4806,1	5644,8	1258,2	5493,9	3867,2	2634,4	39979,9
23	May	4589,6	139,8	18639,8	4792,6	7573,2	751,7	9168,25	6041,25	5127,5	56823,7
24	November	3652,5	7398,05	9668,06	4337,5	7684,75	6566,05	4106,7	1990	509,75	45913,36
25	October	10164,8	378	8572,75	11598,17	10996,53	6690,9	12920,15	642	8365,2	70328,5
26	September	9622,25	10412,4	3595,5	2891,4	8147,63	671,35	8461,5	13839,29	2091,7	59733,02
27	Total 1997	74958,6	29577,55	111788,6	59776,52	139477,7	45992	97533,58	66689,1	32595,05	658388,8
28	o 1998										
29	April	32681,05	9501,5	14298,95	14055,3	10130,21	5340	13620,9	34792,65	210	134630,56
30	February	26056,9	19325,51	21540,24	106	11325,05		11586,9	6795,55		104561,95
31	January	4693,95	5627,14	27833,35	12092,75	21029,3	1975,6	8712,13	6610	12280,5	100854,72
32	March	14350,56	7566,6	18358,35	20885,7	8835,39	5206	24847,45	7130,8	2644,6	109825,45
33	May	2173,5			3223,36	6275		7053,75	1173,05		19898,66
34	Total 1998	79955,96	42020,75	82030,89	50363,11	57594,95	14475	65821,13	56502,1	21007,5	469771,3
35	Total general	177749,26	82964	213051,3	133301	250187,45	78198,1	202143,7	141296	75567,75	1354459
36											

						Aichael Suyama N	the second section of the second			
■1996	22834.7	11365.7	19231.8	23161.4	53114.8	17731.1	38789	18104.8	21965.2	226298.5
August	1814		3557.2	8485.8	3670.5	2595.4	6007.1	479.4		26609.4
December	6409.2	166	2758.8	6611.6	6440.8	5782.4	9557		13227.6	50953.4
July	1176	4955.3	2998.2	1726	12988.9	2587.9	2018.6		1741.2	30192.1
November	4759		3838	704.8	12017.4	2299.8	10261.2	11717.4	4106.4	49704
October	5725.7	6244.4	4317.6	385.2	14422.1		4061.4	4577.2	1470	41203.6
September	2950.8		1762	5248	3575.1	4465.6	6883.7	1330.8	1420	27636
∃1997	74958.6	29577.55	111788.61	59776.52	139477.7	45992	97533.58	66689.14	32595.05	658388.75
April	14019.3	611	10297.35	800.5	14333.15	9690.74	240	5707.35		55699.39
August	57.5	1928	5881.8	4756.5	16766.79	3982.25	5119.1	7853.05	3636.7	49981.69
December	7834.75	1941.5	18494	4728.1	18843.25	7999.91	16077.25	928	629.5	77476.26
February	1584		10581.3	7764.4	13530.3	1351.6	2504.6	3891		41207.2
January	3150.2	1208.5	7477.9	6701.1	25620.1	1500	7331.6	13703.4		66692.8
July	10320	28	1109.15	3984.1	6104.8	1301	19997.88	6144.6	6475.4	55464.93
June	7058.6	3761.5	5871.6	2616.05	4232.4	4228.3	6112.65	2082	3124.9	39088
March	2905.1	1770.8	11599.4	4806.1	5644.8	1258.2	5493.9	3867.2	2634.4	39979.9
May	4589.6	139.8	18639.8	4792.6	7573.2	751.7	9168.25	6041.25	5127.5	56823.7
November	3652.5	7398.05	9668.06	4337.5	7684.75	6566.05	4106.7	1990	509.75	45913.36
October	10164.8	378	8572.75	11598.17	10996.53	6690.9	12920.15	642	8365.2	70328.5
September	9622.25	10412.4	3595.5	2891.4	8147.63	671.35	8461.5	13839.29	2091.7	59733.02
□ 1998	79955.96	42020.75	82030.89	50363.11	57594.95	14475	65821.13	56502.05	21007.5	469771.34
April	32681.05	9501.5	14298.95	14055.3	10130.21	5340	13620.9	34792.65	210	134630.56
February	26056.9	19325.51	21540.24	106	11325.05	1953.4	11586.9	6795.55	tivar W _{5872.4} v	VS 104561.95