



DATAWAREHOUSE Y MINERÍA DE DATOS

CATEDRATICO KAREN MEDRANO

DESAFIO 2

N°	ESTUDIANTES	CARNET
1	MENA CORTEZ, BRYAN ANTONIO	MC211787
2	LOPEZ GUTIERREZ, CALEB VERENICE	LG211551

27 DE NOVIEMBRE DEL AÑO 2022

RESPUESTA DEL EJERCICIO 1

Análisis multidimensional:

- Modelo lógico relacional basado en vistas de nuestra base de datos o almacén:

- Hacemos una distribución de los datos por medio de tablas:

Product Catalog												
ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued	Catego		
1	Chai	1	1	10 boxes x 20 bags	\$18	39	0	10	False	Bevera		
2	Chang	1	1	24 - 12 oz bottles	\$19	17	40	25	False	Bevera		
3	Aniseed Syrup	1	2	12 - 550 ml bottles	\$10	13	70	25	False	Condin		
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	\$22	53	0	0	False	Condin		
6	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars	\$25	120	0	25	False	Condin		
7	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs.	\$30	15	0	10	False	Produc		
8	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	\$40	6	0	0	False	Condin		
10	Ikura	4	8	12 - 200 ml jars	\$31	31	0	0	False	Seafoo		
11	Queso Cabrales	5	4	1 kg pkg.	\$21	22	30	30	False	Dairy P		
12	Queso Manchego La Pastora	5	4	10 - 500 g pkgs.	\$38	86	0	0	False	Dairy P		
13	Konbu	6	8	2 kg box	\$6	24	0	5	False	Seafoo		
14	Tofu	6	7	40 - 100 g pkgs.	\$23.25	35	0	0	False	Produc		
15	Genen Shouyu	6	2	24 - 250 ml bottles	\$15.5	39	0	5	False	Condin		
16	Pavlova	7	3	32 - 500 g boxes	\$17.45	29	0	10	False	Confec		
18	Carnarvon Tigers	7	8	16 kg pkg.	\$62.5	42	0	0	False	Seafoo		
19	Teatime Chocolate Biscuits	8	3	10 boxes x 12 pieces	\$9.2	25	0	5	False	Confec		
20	Sir Rodney's Marmalade	8	3	30 gift boxes	\$81	40	0	0	False	Confec		
21	Sir Rodney's Scones	8	3	24 pkgs. x 4 pieces	\$10	3	40	5	False	Confec		
22	Gustaf's Knäckebröd	9	5	24 - 500 g pkgs.	\$21	104	0	25	False	Grains/		
23	Tunnbröd	9	5	12 - 250 g pkgs.	\$9	61	0	25	False	Grains/		

Tabla 1: Lista alfabética de productos

<div> <div>✕</div> <div>✓</div> </div>	
CategoryName	ProductName
Beverages	Chai
Beverages	Chang
Beverages	Aniseed Syrup
Beverages	Chef Anton's Cajun Seasoning
Beverages	Chef Anton's Gumbo Mix
Beverages	Grandma's Boysenberry Spread
Beverages	Uncle Bob's Organic Dried Pears
Beverages	Northwoods Cranberry Sauce
Beverages	Mishi Kobe Niku
Beverages	Ikura
Beverages	Queso Cabrales
Beverages	Queso Manchego La Pastora
Beverages	Konbu
Beverages	Tofu
Beverages	Genen Shouyu
Beverages	Pavlova
Beverages	Alice Mutton
Beverages	Carnarvon Tigers
Beverages	Teatime Chocolate Biscuits
Beverages	Sir Rodney's Marmalade
Beverages	Sir Rodney's Scones

Tabla 2: Categorías y nombre del producto

CategoryID ▼	CategoryName ▼	Description ▼
1	Beverages	Soft drinks, coffees, teas, beers, and ales
2	Condiments	Sweet and savory sauces, relishes, spreads, and seasonings
3	Confections	Desserts, candies, and sweet breads
4	Dairy Products	Cheeses
5	Grains/Cereals	Breads, crackers, pasta, and cereal
6	Meat/Poultry	Prepared meats
7	Produce	Dried fruit and bean curd
8	Seafood	Seaweed and fish

Tabla 3: Categorías

CategoryName ▼	CategorySales ▼
Beverages	\$102,074.31
Condiments	\$55,277.6
Confections	\$80,894.14
Dairy Products	\$114,749.78
Grains/Cereals	\$55,948.82
Meat/Poultry	\$81,338.06
Produce	\$53,019.98
Seafood	\$65,544.18

Tabla 4: categoría de ventas para 1997

ProductID	ProductName
1	Chai
2	Chang
3	Aniseed Syrup
4	Chef Anton's Cajun Seasoning
6	Grandma's Boysenberry Spread
7	Uncle Bob's Organic Dried Pears
8	Northwoods Cranberry Sauce
10	Ikura
11	Queso Cabrales
12	Queso Manchego La Pastora
13	Konbu
14	Tofu
15	Genen Shouyu
16	Pavlova
18	Carnarvon Tigers
19	Teatime Chocolate Biscuits
20	Sir Rodney's Marmalade
21	Sir Rodney's Scones
22	Gustaf's Knäckebröd
23	Tunnbröd
25	NuNuCa Nuß-Nougat-Creme

Tabla 5: Lista de productos actuales.

City ▼	CompanyName ▼	ContactName ▼	Relationship ▼
Aachen	Drachenblut Delikatessen	Sven Ottlieb	Customers
Albuquerque	Rattlesnake Canyon Grocery	Paula Wilson	Customers
Anchorage	Old World Delicatessen	Rene Phillips	Customers
Århus	Vaffeljernet	Palle Ibsen	Customers
Barcelona	Galería del gastrónomo	Eduardo Saavedra	Customers
Barquisimeto	LILA-Supermercado	Carlos González	Customers
Bergamo	Magazzini Alimentari Riuniti	Giovanni Rovelli	Customers
Berlin	Alfreds Futterkiste	Maria Anders	Customers
Bern	Chop-suey Chinese	Yang Wang	Customers
Boise	Save-a-lot Markets	Jose Pavarotti	Customers
Bräcke	Folk och få HB	Maria Larsson	Customers
Brandenburg	Königlich Essen	Philip Cramer	Customers
Bruxelles	Maison Dewey	Catherine Dewey	Customers
Buenos Aires	Cactus Comidas para llevar	Patricio Simpson	Customers
Buenos Aires	Océano Atlántico Ltda.	Yvonne Moncada	Customers
Buenos Aires	Rancho grande	Sergio Gutiérrez	Customers
Butte	The Cracker Box	Liu Wong	Customers
Campinas	Gourmet Lanchonetes	André Fonseca	Customers
Caracas	GROSELLA-Restaurante	Manuel Pereira	Customers
Charleroi	Suprêmes délices	Pascale Cartrain	Customers
Cork	Hungry Owl All-Night Grocers	Patricia McKenna	Customers

Tabla 6: Clientes y proveedores de la ciudad

CustomerID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode	Country
ALFKI	Alfreds Futterkiste	Maria Anders	Sales Representative	Obere Str. 57	Berlin		12209	Germany
ANATR	Ana Trujillo Emparedados y helados	Ana Trujillo	Owner	Avda. de la Constitución 2222	México D.F.		05021	Mexico
ANTON	Antonio Moreno Taquería	Antonio Moreno	Owner	Mataderos 2312	México D.F.		05023	Mexico
AROUT	Around the Horn	Thomas Hardy	Sales Representative	120 Hanover Sq.	London		WA1 1DP	United Kingdom
BERGS	Berglunds snabbköp	Christina Berglund	Order Administrator	Berguvsvägen 8	Luleå		S-958 22	Sweden
BLAUS	Blauer See Delikatessen	Hanna Moos	Sales Representative	Forsterstr. 57	Mannheim		68306	Germany
BLONP	Blondesd's père et fils	Frédérique Citeaux	Marketing Manager	24, place Kléber	Strasbourg		67000	France
BOLID	Bólido Comidas preparadas	Martín Sommer	Owner	C/ Araquil, 67	Madrid		28023	Spain
BONAP	Bon app'	Laurence Lebihan	Owner	12, rue des Bouchers	Marseille		13008	France
BOTTM	Bottom-Dollar Markets	Elizabeth Lincoln	Accounting Manager	23 Tsawassen Blvd.	Tsawassen	BC	T2F 8M4	Canada
BSBEV	B's Beverages	Victoria Ashworth	Sales Representative	Fauntleroy Circus	London		EC2 5NT	United Kingdom
CACTU	Cactus Comidas para llevar	Patricio Simpson	Sales Agent	Cerrito 333	Buenos Aires		1010	Argentina
CENTC	Centro comercial Moctezuma	Francisco Chang	Marketing Manager	Sierras de Granada 9993	México D.F.		05022	Mexico
CHOPS	Chop-suey Chinese	Yang Wang	Owner	Hauptstr. 29	Bern		3012	Switzerland
COMMI	Comércio Mineiro	Pedro Afonso	Sales Associate	Av. dos Lusíadas, 23	Sao Paulo	SP	05432-043	Brazil
CONSH	Consolidated Holdings	Elizabeth Brown	Sales Representative	Berkeley Gardens 12 Brewery	London		WX1 6LT	United Kingdom
DRACD	Drachenblut Delikatessen	Sven Ottlieb	Order Administrator	Walsenweg 21	Aachen		52066	Germany
DUMON	Du monde entier	Janine Labrune	Owner	67, rue des Cinquante Otages	Nantes		44000	France
EASTC	Eastern Connection	Ann Devon	Sales Agent	35 King George	London		WX3 6FW	United Kingdom
ERNSH	Ernst Handel	Roland Mendel	Sales Manager	Kirchgasse 6	Graz		8010	Austria

Tabla 7: Clientes

EmployeeID	LastName	FirstName	Title	TitleOfCourtesy	BirthDate	HireDate	Address	City	Region	PostalCode	Country
1	Davolio	Nancy	Sales Representative	Ms.	12/8/1948 12:00:00 AM	5/1/1992 12:00:00 AM	507 - 20th Ave. E. Apt. 2A	Seattle	WA	98106	USA
2	Fuller	Andrew	Vice President, Sales	Dr.	2/19/1952 12:00:00 AM	8/14/1992 12:00:00 AM	908 W. Capital Way	Tacoma	WA	98401	USA
3	Leverling	Janet	Sales Representative	Ms.	8/30/1963 12:00:00 AM	4/1/1992 12:00:00 AM	722 Moss Bay Blvd.	Kirkland	WA	98033	USA
4	Peacock	Margaret	Sales Representative	Mrs.	9/19/1937 12:00:00 AM	5/3/1993 12:00:00 AM	4110 Old Redmond Rd.	Redmond	WA	98073	USA
5	Buchanan	Steven	Sales Manager	Mr.	3/4/1955 12:00:00 AM	10/17/1993 12:00:00 AM	14 Garrett Hill	London			UK
6	Suyama	Michael	Sales Representative	Mr.	7/2/1963 12:00:00 AM	10/17/1993 12:00:00 AM	Coventry House Miner Rd.	London			EC
7	King	Robert	Sales Representative	Mr.	5/29/1960 12:00:00 AM	1/2/1994 12:00:00 AM	Edgeham Hollow Winchester Way	London			UK
8	Callahan	Laura	Inside Sales Coordinator	Ms.	1/9/1958 12:00:00 AM	3/5/1994 12:00:00 AM	4726 - 11th Ave. N.E.	Seattle	WA	98105	USA
9	Dodsworth	Anne	Sales Representative	Ms.	1/27/1966 12:00:00 AM	11/15/1994 12:00:00 AM	7 Houndstooth Rd.	London			UK

Tabla 8: Empleados

EmployeeID ▼	TerritoryID ▼
1	06897
1	19713
2	01581
2	01730
2	01833
2	02116
2	02139
2	02184
2	40222
3	30346
3	31406
3	32859
3	33607
4	20852
4	27403
4	27511
5	02903
5	07960
5	08837
5	10019
5	10038

Tabla 9: Territorios de empleados

ShipName	ShipAddress	ShipCity	ShipRegion	ShipPostalCode	ShipCountry	CustomerID	CustomerName	Address	City	Region
Toms Spezialitäten	Luisenstr. 48	Münster		44087	Germany	TOMSP	Toms Spezialitäten	Luisenstr. 48	Münster	
Toms Spezialitäten	Luisenstr. 48	Münster		44087	Germany	TOMSP	Toms Spezialitäten	Luisenstr. 48	Münster	
Ottlies Käseladen	Mehrheimerstr. 369	Köln		50739	Germany	OTTIK	Ottlies Käseladen	Mehrheimerstr. 369	Köln	
Frankenversand	Berliner Platz 43	München		80805	Germany	FRANK	Frankenversand	Berliner Platz 43	München	
QUICK-Stop	Taucherstraße 10	Cunewalde		01307	Germany	QUICK	QUICK-Stop	Taucherstraße 10	Cunewalde	
Morgenstern Gesundkost	Heerstr. 22	Leipzig		04179	Germany	MORGK	Morgenstern Gesundkost	Heerstr. 22	Leipzig	
Morgenstern Gesundkost	Heerstr. 22	Leipzig		04179	Germany	MORGK	Morgenstern Gesundkost	Heerstr. 22	Leipzig	
Lehmanns Marktstand	Magazinweg 7	Frankfurt a.M.		60528	Germany	LEHMS	Lehmanns Marktstand	Magazinweg 7	Frankfurt a.M.	
QUICK-Stop	Taucherstraße 10	Cunewalde		01307	Germany	QUICK	QUICK-Stop	Taucherstraße 10	Cunewalde	
QUICK-Stop	Taucherstraße 10	Cunewalde		01307	Germany	QUICK	QUICK-Stop	Taucherstraße 10	Cunewalde	
Die Wandernde Kuh	Adenauerallee 900	Stuttgart		70563	Germany	WANDK	Die Wandernde Kuh	Adenauerallee 900	Stuttgart	
Die Wandernde Kuh	Adenauerallee 900	Stuttgart		70563	Germany	WANDK	Die Wandernde Kuh	Adenauerallee 900	Stuttgart	
Die Wandernde Kuh	Adenauerallee 900	Stuttgart		70563	Germany	WANDK	Die Wandernde Kuh	Adenauerallee 900	Stuttgart	
Die Wandernde Kuh	Adenauerallee 900	Stuttgart		70563	Germany	WANDK	Die Wandernde Kuh	Adenauerallee 900	Stuttgart	
Die Wandernde Kuh	Adenauerallee 900	Stuttgart		70563	Germany	WANDK	Die Wandernde Kuh	Adenauerallee 900	Stuttgart	
Die Wandernde Kuh	Adenauerallee 900	Stuttgart		70563	Germany	WANDK	Die Wandernde Kuh	Adenauerallee 900	Stuttgart	
QUICK-Stop	Taucherstraße 10	Cunewalde		01307	Germany	QUICK	QUICK-Stop	Taucherstraße 10	Cunewalde	
Königlich Essen	Maubelstr. 90	Brandenburg		14776	Germany	KOENE	Königlich Essen	Maubelstr. 90	Brandenburg	
Königlich Essen	Maubelstr. 90	Brandenburg		14776	Germany	KOENE	Königlich Essen	Maubelstr. 90	Brandenburg	
Königlich Essen	Maubelstr. 90	Brandenburg		14776	Germany	KOENE	Königlich Essen	Maubelstr. 90	Brandenburg	

Tabla 10: Facturas

OrderID	ProductID	UnitPrice	Quantity	Discount
10508	39	\$18	10	0
10521	35	\$18	3	0
10530	76	\$18	50	0
10546	35	\$18	30	0
10553	35	\$18	6	0
10566	76	\$18	10	0
10569	76	\$18	30	0
10575	76	\$18	10	0
10576	1	\$18	10	0
10577	39	\$18	10	0
10578	35	\$18	20	0
10582	76	\$18	14	0
10587	35	\$18	20	0
10589	35	\$18	4	0
10590	1	\$18	20	0
10609	1	\$18	3	0
10611	1	\$18	6	0
10612	76	\$18	80	0
10614	39	\$18	5	0
10628	1	\$18	25	0
10630	76	\$18	35	0

Tabla 11: Detalles de ordenes

OrderID	ProductID	ProductName	UnitPrice	Quantity	Discount	ExtendedPrice
10508	39	Chartreuse verte	\$18	10	0	\$180
10521	35	Steeleye Stout	\$18	3	0	\$54
10530	76	Lakkalikööri	\$18	50	0	\$900
10546	35	Steeleye Stout	\$18	30	0	\$540
10553	35	Steeleye Stout	\$18	6	0	\$108
10566	76	Lakkalikööri	\$18	10	0	\$180
10569	76	Lakkalikööri	\$18	30	0	\$540
10575	76	Lakkalikööri	\$18	10	0	\$180
10576	1	Chai	\$18	10	0	\$180
10577	39	Chartreuse verte	\$18	10	0	\$180
10578	35	Steeleye Stout	\$18	20	0	\$360
10582	76	Lakkalikööri	\$18	14	0	\$252
10587	35	Steeleye Stout	\$18	20	0	\$360
10589	35	Steeleye Stout	\$18	4	0	\$72
10590	1	Chai	\$18	20	0	\$360
10609	1	Chai	\$18	3	0	\$54
10611	1	Chai	\$18	6	0	\$108
10612	76	Lakkalikööri	\$18	80	0	\$1,440
10614	39	Chartreuse verte	\$18	5	0	\$90
10628	1	Chai	\$18	25	0	\$450
10630	76	Lakkalikööri	\$18	35	0	\$630

Tabla 12: Ordenes de detalles extendidos

OrderID ▼	Subtotal ▼
10248	\$440
10249	\$1,863.4
10250	\$1,552.6
10251	\$654.06
10252	\$3,597.9
10253	\$1,444.8
10254	\$556.62
10255	\$2,490.5
10256	\$517.8
10257	\$1,119.9
10258	\$1,614.88
10259	\$100.8
10260	\$1,504.65
10261	\$448
10262	\$584
10263	\$1,873.8
10264	\$695.63
10265	\$1,176
10266	\$346.56
10267	\$3,536.6
10268	\$1,101.2

Tabla 13: Ordenes de subtotales

OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress	ShipCity
10249	TOMSP	6	7/5/1996 12:00:00 AM	8/16/1996 12:00:00 AM	7/10/1996 12:00:00 AM	1	\$11.61	Toms Spezialitäten	Luisenstr. 48	Münch
10260	OTTIK	4	7/19/1996 12:00:00 AM	8/16/1996 12:00:00 AM	7/29/1996 12:00:00 AM	1	\$55.09	Ottilies Käseladen	Mehrheimerstr. 369	Köln
10267	FRANK	4	7/29/1996 12:00:00 AM	8/26/1996 12:00:00 AM	8/6/1996 12:00:00 AM	1	\$208.58	Frankenversand	Berliner Platz 43	Münch
10273	QUICK	3	8/5/1996 12:00:00 AM	9/2/1996 12:00:00 AM	8/12/1996 12:00:00 AM	3	\$76.07	QUICK-Stop	Taucherstraße 10	Cur
10277	MORGK	2	8/9/1996 12:00:00 AM	9/6/1996 12:00:00 AM	8/13/1996 12:00:00 AM	3	\$125.77	Morgenstern Gesundkost	Heerstr. 22	Leip
10279	LEHMS	8	8/13/1996 12:00:00 AM	9/10/1996 12:00:00 AM	8/16/1996 12:00:00 AM	2	\$25.83	Lehmanns Marktstand	Magazinweg 7	Frai
10284	LEHMS	4	8/19/1996 12:00:00 AM	9/16/1996 12:00:00 AM	8/27/1996 12:00:00 AM	1	\$76.56	Lehmanns Marktstand	Magazinweg 7	Frai
10285	QUICK	1	8/20/1996 12:00:00 AM	9/17/1996 12:00:00 AM	8/26/1996 12:00:00 AM	2	\$76.83	QUICK-Stop	Taucherstraße 10	Cur
10286	QUICK	8	8/21/1996 12:00:00 AM	9/18/1996 12:00:00 AM	8/30/1996 12:00:00 AM	3	\$229.24	QUICK-Stop	Taucherstraße 10	Cur
10301	WANDK	8	9/9/1996 12:00:00 AM	10/7/1996 12:00:00 AM	9/17/1996 12:00:00 AM	2	\$45.08	Die Wandernde Kuh	Adenauerallee 900	Stu
10312	WANDK	2	9/23/1996 12:00:00 AM	10/21/1996 12:00:00 AM	10/3/1996 12:00:00 AM	2	\$40.26	Die Wandernde Kuh	Adenauerallee 900	Stu
10313	QUICK	2	9/24/1996 12:00:00 AM	10/22/1996 12:00:00 AM	10/4/1996 12:00:00 AM	2	\$1.96	QUICK-Stop	Taucherstraße 10	Cur
10323	KOENE	4	10/7/1996 12:00:00 AM	11/4/1996 12:00:00 AM	10/14/1996 12:00:00 AM	1	\$4.88	Königlich Essen	Maubelstr. 90	Bra
10325	KOENE	1	10/9/1996 12:00:00 AM	10/23/1996 12:00:00 AM	10/14/1996 12:00:00 AM	3	\$64.86	Königlich Essen	Maubelstr. 90	Bra
10337	FRANK	4	10/24/1996 12:00:00 AM	11/21/1996 12:00:00 AM	10/29/1996 12:00:00 AM	3	\$108.26	Frankenversand	Berliner Platz 43	Münch
10342	FRANK	4	10/30/1996 12:00:00 AM	11/13/1996 12:00:00 AM	11/4/1996 12:00:00 AM	2	\$54.83	Frankenversand	Berliner Platz 43	Münch
10343	LEHMS	4	10/31/1996 12:00:00 AM	11/28/1996 12:00:00 AM	11/6/1996 12:00:00 AM	1	\$110.37	Lehmanns Marktstand	Magazinweg 7	Frai
10345	QUICK	2	11/4/1996 12:00:00 AM	12/2/1996 12:00:00 AM	11/11/1996 12:00:00 AM	2	\$249.06	QUICK-Stop	Taucherstraße 10	Cur
10348	WANDK	4	11/7/1996 12:00:00 AM	12/5/1996 12:00:00 AM	11/15/1996 12:00:00 AM	2	\$0.78	Die Wandernde Kuh	Adenauerallee 900	Stu
10356	WANDK	6	11/18/1996 12:00:00 AM	12/16/1996 12:00:00 AM	11/27/1996 12:00:00 AM	2	\$36.71	Die Wandernde Kuh	Adenauerallee 900	Stu

Tabla 14: Ordenes

OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate	ShipVia	Freight	ShipName	ShipAddress	ShipCity
10643	ALFKI	6	8/25/1997 12:00:00 AM	9/22/1997 12:00:00 AM	9/2/1997 12:00:00 AM	1	\$29.46	Alfreds Futterkiste	Obere Str. 57	Berlin
10692	ALFKI	4	10/3/1997 12:00:00 AM	10/31/1997 12:00:00 AM	10/13/1997 12:00:00 AM	2	\$61.02	Alfred's Futterkiste	Obere Str. 57	Berlin
10702	ALFKI	4	10/13/1997 12:00:00 AM	11/24/1997 12:00:00 AM	10/21/1997 12:00:00 AM	1	\$23.94	Alfred's Futterkiste	Obere Str. 57	Berlin
10835	ALFKI	1	1/15/1998 12:00:00 AM	2/12/1998 12:00:00 AM	1/21/1998 12:00:00 AM	3	\$69.53	Alfred's Futterkiste	Obere Str. 57	Berlin
10952	ALFKI	1	3/16/1998 12:00:00 AM	4/27/1998 12:00:00 AM	3/24/1998 12:00:00 AM	1	\$40.42	Alfred's Futterkiste	Obere Str. 57	Berlin
11011	ALFKI	3	4/9/1998 12:00:00 AM	5/7/1998 12:00:00 AM	4/13/1998 12:00:00 AM	1	\$1.21	Alfred's Futterkiste	Obere Str. 57	Berlin
10853	BLAUS	9	1/27/1998 12:00:00 AM	2/24/1998 12:00:00 AM	2/3/1998 12:00:00 AM	2	\$53.83	Blauer See Delikatessen	Forsterstr. 57	Mann
10956	BLAUS	6	3/17/1998 12:00:00 AM	4/28/1998 12:00:00 AM	3/20/1998 12:00:00 AM	2	\$44.65	Blauer See Delikatessen	Forsterstr. 57	Mann
11058	BLAUS	9	4/29/1998 12:00:00 AM	5/27/1998 12:00:00 AM		3	\$31.14	Blauer See Delikatessen	Forsterstr. 57	Mann
10614	BLAUS	8	7/29/1997 12:00:00 AM	8/26/1997 12:00:00 AM	8/1/1997 12:00:00 AM	3	\$1.93	Blauer See Delikatessen	Forsterstr. 57	Mann
10582	BLAUS	3	6/27/1997 12:00:00 AM	7/25/1997 12:00:00 AM	7/14/1997 12:00:00 AM	2	\$27.71	Blauer See Delikatessen	Forsterstr. 57	Mann
10501	BLAUS	9	4/9/1997 12:00:00 AM	5/7/1997 12:00:00 AM	4/16/1997 12:00:00 AM	3	\$8.85	Blauer See Delikatessen	Forsterstr. 57	Mann
10509	BLAUS	4	4/17/1997 12:00:00 AM	5/15/1997 12:00:00 AM	4/29/1997 12:00:00 AM	1	\$0.15	Blauer See Delikatessen	Forsterstr. 57	Mann
10825	DRACD	1	1/9/1998 12:00:00 AM	2/6/1998 12:00:00 AM	1/14/1998 12:00:00 AM	1	\$79.25	Drachenblut Delikatessen	Walserweg 21	Aache
11036	DRACD	8	4/20/1998 12:00:00 AM	5/18/1998 12:00:00 AM	4/22/1998 12:00:00 AM	3	\$149.47	Drachenblut Delikatessen	Walserweg 21	Aache
11067	DRACD	1	5/4/1998 12:00:00 AM	5/18/1998 12:00:00 AM	5/6/1998 12:00:00 AM	2	\$7.98	Drachenblut Delikatessen	Walserweg 21	Aache
10391	DRACD	3	12/23/1996 12:00:00 AM	1/20/1997 12:00:00 AM	12/31/1996 12:00:00 AM	3	\$5.45	Drachenblut Delikatessen	Walserweg 21	Aache
10363	DRACD	4	11/26/1996 12:00:00 AM	12/24/1996 12:00:00 AM	12/4/1996 12:00:00 AM	3	\$30.54	Drachenblut Delikatessen	Walserweg 21	Aache
10797	DRACD	7	12/25/1997 12:00:00 AM	1/22/1998 12:00:00 AM	1/5/1998 12:00:00 AM	2	\$33.35	Drachenblut Delikatessen	Walserweg 21	Aache
11012	FRANK	1	4/9/1998 12:00:00 AM	4/23/1998 12:00:00 AM	4/17/1998 12:00:00 AM	3	\$242.95	Frankenversand	Berliner Platz 43	Münch

Tabla 15: Ordenes QRY

CategoryName ▼	ProductName ▼	ProductSales ▼
Meat/Poultry	Alice Mutton	\$16,580.85
Condiments	Aniseed Syrup	\$1,724
Seafood	Boston Crab Meat	\$9,796.33
Dairy Products	Camembert Pierrot	\$20,652.28
Seafood	Carnarvon Tigers	\$15,950
Beverages	Chai	\$4,887
Beverages	Chang	\$7,038.55
Beverages	Chartreuse verte	\$4,475.7
Condiments	Chef Anton's Cajun Seasoning	\$5,214.88
Condiments	Chef Anton's Gumbo Mix	\$373.63
Confections	Chocolate	\$1,282.01
Beverages	Côte de Blaye	\$46,563.09
Seafood	Escargots de Bourgogne	\$2,076.28
Grains/Cereals	Filo Mix	\$2,068.15
Dairy Products	Flotemysost	\$9,642.76
Dairy Products	Geitost	\$786
Condiments	Genen Shouyu	\$1,474.83
Grains/Cereals	Gnocchi di nonna Alice	\$32,604
Dairy Products	Gorgonzola Telino	\$7,620.75
Condiments	Grandma's Boysenberry Spread	\$2,500
Seafood	Gravad lax	\$629.2

Tabla 16: Ventas de productos por 1997

ProductID	ProductName	SupplierID	CategoryID	QuantityPerUnit	UnitPrice	UnitsInStock	UnitsOnOrder	ReorderLevel	Discontinued
1	Chai	1	1	10 boxes x 20 bags	\$18	39	0	10	False
2	Chang	1	1	24 - 12 oz bottles	\$19	17	40	25	False
3	Aniseed Syrup	1	2	12 - 550 ml bottles	\$10	13	70	25	False
4	Chef Anton's Cajun Seasoning	2	2	48 - 6 oz jars	\$22	53	0	0	False
5	Chef Anton's Gumbo Mix	2	2	36 boxes	\$21.35	0	0	0	True
6	Grandma's Boysenberry Spread	3	2	12 - 8 oz jars	\$25	120	0	25	False
7	Uncle Bob's Organic Dried Pears	3	7	12 - 1 lb pkgs.	\$30	15	0	10	False
8	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	\$40	6	0	0	False
9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	\$97	29	0	0	True
10	Ikura	4	8	12 - 200 ml jars	\$31	31	0	0	False
11	Queso Cabrales	5	4	1 kg pkg.	\$21	22	30	30	False
12	Queso Manchego La Pastora	5	4	10 - 500 g pkgs.	\$38	86	0	0	False
13	Konbu	6	8	2 kg box	\$6	24	0	5	False
14	Tofu	6	7	40 - 100 g pkgs.	\$23.25	35	0	0	False
15	Genen Shouyu	6	2	24 - 250 ml bottles	\$15.5	39	0	5	False
16	Pavlova	7	3	32 - 500 g boxes	\$17.45	29	0	10	False
17	Alice Mutton	7	6	20 - 1 kg tins	\$39	0	0	0	True
18	Carnarvon Tigers	7	8	16 kg pkg.	\$62.5	42	0	0	False
19	Teatime Chocolate Biscuits	8	3	10 boxes x 12 pieces	\$9.2	25	0	5	False
20	Sir Rodney's Marmalade	8	3	30 gift boxes	\$81	40	0	0	False
21	Sir Rodney's Scones	8	3	24 pkgs. x 4 pieces	\$10	3	40	5	False

Tabla 17: Productos

ProductName	UnitPrice
Uncle Bob's Organic Dried Pears	\$30
Northwoods Cranberry Sauce	\$40
Mishi Kobe Niku	\$97
Ikura	\$31
Queso Manchego La Pastora	\$38
Alice Mutton	\$39
Carnarvon Tigers	\$62.5
Sir Rodney's Marmalade	\$81
Gumbär Gummibärchen	\$31.23
Schoggi Schokolade	\$43.9
Rössle Sauerkraut	\$45.6
Thüringer Rostbratwurst	\$123.79
Mascarpone Fabioli	\$32
Côte de Blaye	\$263.5
Ipoh Coffee	\$46
Manjimup Dried Apples	\$53
Perth Pasties	\$32.8
Gnocchi di nonna Alice	\$38
Raclette Courdavault	\$55
Camembert Pierrot	\$34
Tarte au sucre	\$49.3

Tabla 18: Promedio de productos

CategoryName ▼	ProductName ▼	QuantityPerUnit ▼	UnitsInStock ▼	Discontinued ▼
Beverages	Chai	10 boxes x 20 bags	39	False
Beverages	Chang	24 - 12 oz bottles	17	False
Condiments	Aniseed Syrup	12 - 550 ml bottles	13	False
Condiments	Chef Anton's Cajun Seasoning	48 - 6 oz jars	53	False
Condiments	Grandma's Boysenberry Spread	12 - 8 oz jars	120	False
Produce	Uncle Bob's Organic Dried Pears	12 - 1 lb pkgs.	15	False
Condiments	Northwoods Cranberry Sauce	12 - 12 oz jars	6	False
Seafood	Ikura	12 - 200 ml jars	31	False
Dairy Products	Queso Cabrales	1 kg pkg.	22	False
Dairy Products	Queso Manchego La Pastora	10 - 500 g pkgs.	86	False
Seafood	Konbu	2 kg box	24	False
Produce	Tofu	40 - 100 g pkgs.	35	False
Condiments	Genen Shouyu	24 - 250 ml bottles	39	False
Confections	Pavlova	32 - 500 g boxes	29	False
Seafood	Carnarvon Tigers	16 kg pkg.	42	False
Confections	Teatime Chocolate Biscuits	10 boxes x 12 pieces	25	False
Confections	Sir Rodney's Marmalade	30 gift boxes	40	False
Confections	Sir Rodney's Scones	24 pkgs. x 4 pieces	3	False
Grains/Cereals	Gustaf's Knäckebröd	24 - 500 g pkgs.	104	False
Grains/Cereals	Tunnbröd	12 - 250 g pkgs.	61	False
Confections	NuNuCa Nuß-Nougat-Creme	20 - 450 g glasses	76	False

Tabla 19: Productos por categoría

CategoryName ▼	ProductName ▼	QuantityPerUnit ▼	UnitsInStock ▼	Discontinued ▼
Beverages	Chai	10 boxes x 20 bags	39	False
Beverages	Chang	24 - 12 oz bottles	17	False
Condiments	Aniseed Syrup	12 - 550 ml bottles	13	False
Condiments	Chef Anton's Cajun Seasoning	48 - 6 oz jars	53	False
Condiments	Grandma's Boysenberry Spread	12 - 8 oz jars	120	False
Produce	Uncle Bob's Organic Dried Pears	12 - 1 lb pkgs.	15	False
Condiments	Northwoods Cranberry Sauce	12 - 12 oz jars	6	False
Seafood	Ikura	12 - 200 ml jars	31	False
Dairy Products	Queso Cabrales	1 kg pkg.	22	False
Dairy Products	Queso Manchego La Pastora	10 - 500 g pkgs.	86	False
Seafood	Konbu	2 kg box	24	False
Produce	Tofu	40 - 100 g pkgs.	35	False
Condiments	Genen Shouyu	24 - 250 ml bottles	39	False
Confections	Pavlova	32 - 500 g boxes	29	False
Seafood	Carnarvon Tigers	16 kg pkg.	42	False
Confections	Teatime Chocolate Biscuits	10 boxes x 12 pieces	25	False
Confections	Sir Rodney's Marmalade	30 gift boxes	40	False
Confections	Sir Rodney's Scones	24 pkgs. x 4 pieces	3	False
Grains/Cereals	Gustaf's Knäckebröd	24 - 500 g pkgs.	104	False
Grains/Cereals	Tunnbröd	12 - 250 g pkgs.	61	False
Confections	NuNuCa Nuß-Nougat-Creme	20 - 450 g glasses	76	False

Tabla 20: Ordenes trimestralmente

RegionID	RegionDescription
1	Eastern
2	Western
3	Northern
4	Southern

Tabla 21: Región

CategoryID	CategoryName	ProductName	ProductSales
6	Meat/Poultry	Alice Mutton	\$17,604.6
2	Condiments	Aniseed Syrup	\$1,724
8	Seafood	Boston Crab Meat	\$9,814.73
4	Dairy Products	Camembert Pierrot	\$20,505.4
8	Seafood	Carnarvon Tigers	\$15,950
1	Beverages	Chai	\$4,887
1	Beverages	Chang	\$7,038.55
1	Beverages	Chartreuse verte	\$4,475.7
2	Condiments	Chef Anton's Cajun Seasoning	\$5,214.88
2	Condiments	Chef Anton's Gumbo Mix	\$373.63
3	Confections	Chocolate	\$1,282.01
1	Beverages	Côte de Blaye	\$49,198.09
8	Seafood	Escargots de Bourgogne	\$2,076.28
5	Grains/Cereals	Filo Mix	\$2,124.15
4	Dairy Products	Flotemysost	\$8,438.76
4	Dairy Products	Geitost	\$786
2	Condiments	Genen Shouyu	\$1,474.83
5	Grains/Cereals	Gnocchi di nonna Alice	\$32,604
4	Dairy Products	Gorgonzola Telino	\$7,300.75
2	Condiments	Grandma's Boysenberry Spread	\$2,500
8	Seafood	Gravad lax	\$629.2

Tabla 22: Ventas por categoría

SaleAmount ▼	OrderID ▼	CompanyName ▼	ShippedDate ▼
\$2,556.95	10393	Save-a-lot Markets	1/3/1997 12:00:00 AM
\$2,505.6	10398	Save-a-lot Markets	1/9/1997 12:00:00 AM
\$3,063	10400	Eastern Connection	1/16/1997 12:00:00 AM
\$3,868.6	10401	Rattlesnake Canyon Grocery	1/10/1997 12:00:00 AM
\$2,713.5	10402	Ernst Handel	1/10/1997 12:00:00 AM
\$11,188.4	10417	Simons bistro	1/28/1997 12:00:00 AM
\$9,194.56	10424	Mère Paillarde	1/27/1997 12:00:00 AM
\$4,899.2	10430	Ernst Handel	2/3/1997 12:00:00 AM
\$4,924.14	10440	Save-a-lot Markets	2/28/1997 12:00:00 AM
\$3,849.66	10451	QUICK-Stop	3/12/1997 12:00:00 AM
\$2,684	10455	Wartian Herkku	3/3/1997 12:00:00 AM
\$3,891	10458	Suprêmes délices	3/4/1997 12:00:00 AM
\$2,518	10465	Vaffeljernet	3/14/1997 12:00:00 AM
\$10,495.6	10479	Rattlesnake Canyon Grocery	3/21/1997 12:00:00 AM
\$3,163.2	10490	HILARION-Abastos	4/3/1997 12:00:00 AM
\$4,707.54	10510	Save-a-lot Markets	4/28/1997 12:00:00 AM
\$2,550	10511	Bon app'	4/21/1997 12:00:00 AM
\$8,623.45	10514	Ernst Handel	5/16/1997 12:00:00 AM
\$9,921.3	10515	QUICK-Stop	5/23/1997 12:00:00 AM
\$4,150.05	10518	Tortuga Restaurante	5/5/1997 12:00:00 AM
\$3,192.65	10524	Berglunds snabbköp	5/7/1997 12:00:00 AM

Tabla 23: Monto de ventas totales

ShipperID	Company Name	Phone
1	Speedy Express	(503) 555-9831
2	United Package	(503) 555-3199
3	Federal Shipping	(503) 555-9931

Tabla 24: Cargadores.

ShippedDate	OrderID	Subtotal
7/16/1996 12:00:00 AM	10248	\$440
7/10/1996 12:00:00 AM	10249	\$1,863.4
7/12/1996 12:00:00 AM	10250	\$1,552.6
7/15/1996 12:00:00 AM	10251	\$654.06
7/11/1996 12:00:00 AM	10252	\$3,597.9
7/16/1996 12:00:00 AM	10253	\$1,444.8
7/23/1996 12:00:00 AM	10254	\$556.62
7/15/1996 12:00:00 AM	10255	\$2,490.5
7/17/1996 12:00:00 AM	10256	\$517.8
7/22/1996 12:00:00 AM	10257	\$1,119.9
7/23/1996 12:00:00 AM	10258	\$1,614.88
7/25/1996 12:00:00 AM	10259	\$100.8
7/29/1996 12:00:00 AM	10260	\$1,504.65
7/30/1996 12:00:00 AM	10261	\$448
7/25/1996 12:00:00 AM	10262	\$584
7/31/1996 12:00:00 AM	10263	\$1,873.8
8/23/1996 12:00:00 AM	10264	\$695.63
8/12/1996 12:00:00 AM	10265	\$1,176
7/31/1996 12:00:00 AM	10266	\$346.56
8/6/1996 12:00:00 AM	10267	\$3,536.6
8/2/1996 12:00:00 AM	10268	\$1,101.2

Tabla 25: Resumen de ventas trimestrales.

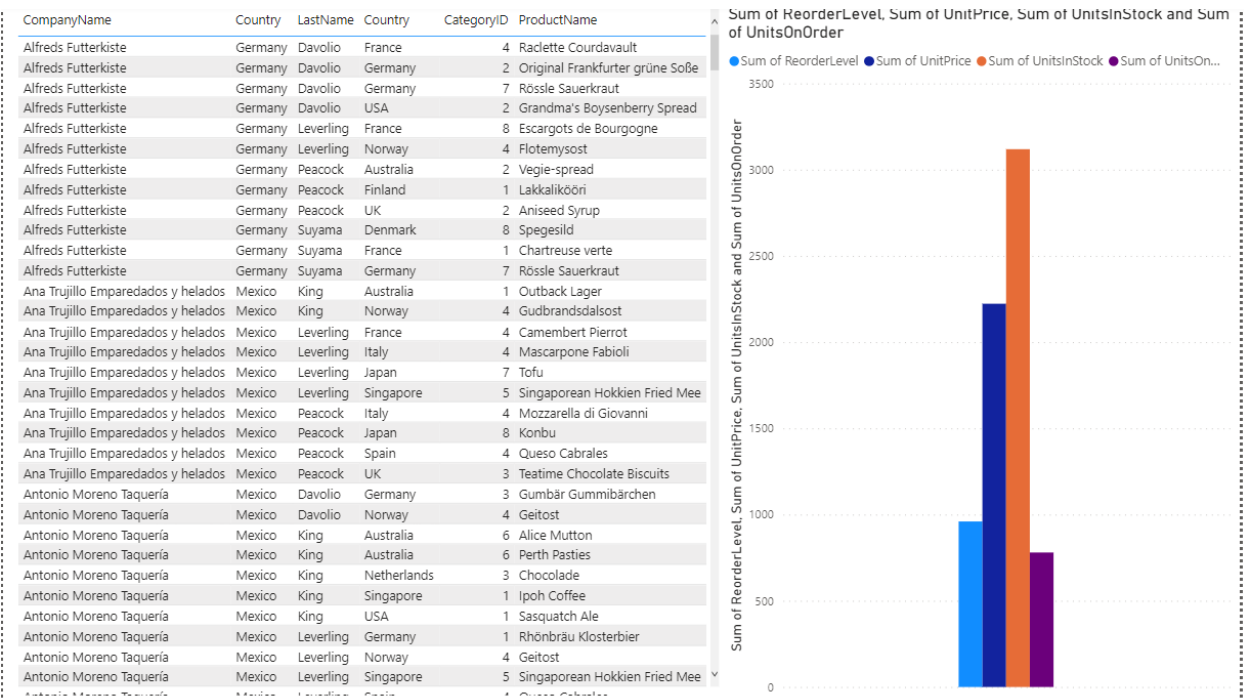
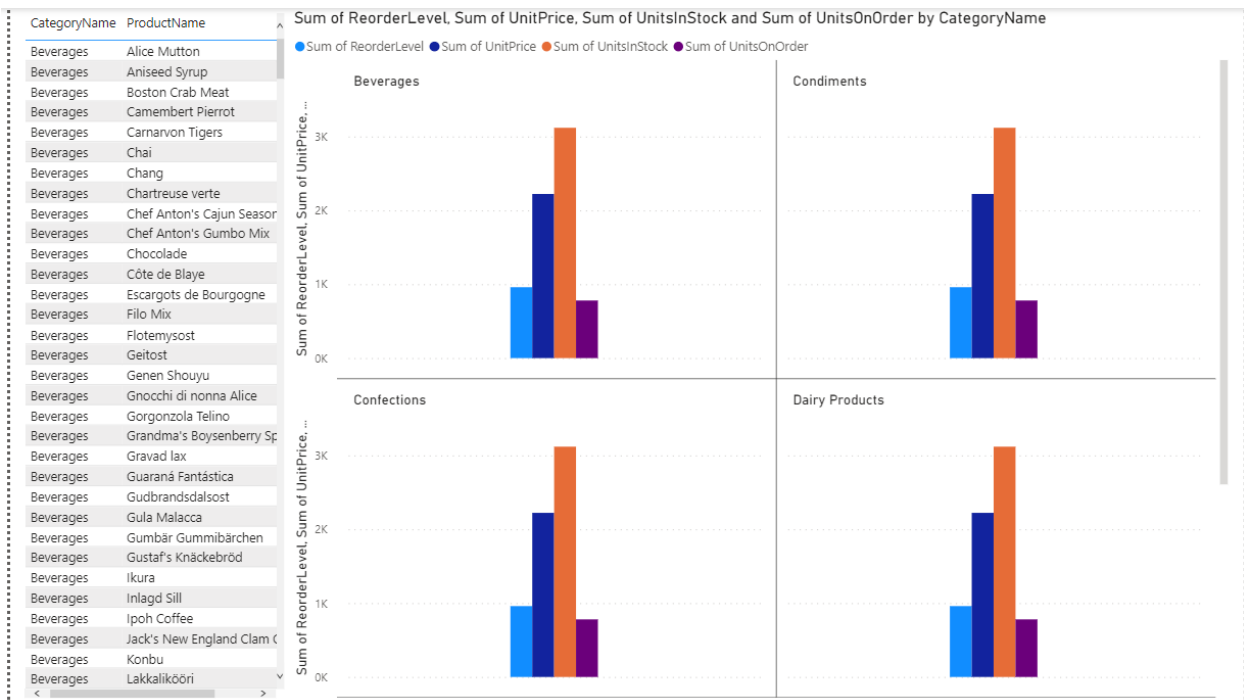
SupplierID	CompanyName	ContactName	ContactTitle	Address	City	Region	PostalCode
1	Exotic Liquids	Charlotte Cooper	Purchasing Manager	49 Gilbert St.	London		EC1 4SD
2	New Orleans Cajun Delights	Shelley Burke	Order Administrator	P.O. Box 78934	New Orleans	LA	70117
3	Grandma Kelly's Homestead	Regina Murphy	Sales Representative	707 Oxford Rd.	Ann Arbor	MI	48104
4	Tokyo Traders	Yoshi Nagase	Marketing Manager	9-8 Sekimai Musashino-shi	Tokyo		100
5	Cooperativa de Quesos 'Las Cabras'	Antonio del Valle Saavedra	Export Administrator	Calle del Rosal 4	Oviedo	Asturias	33007
6	Mayumi's	Mayumi Ohno	Marketing Representative	92 Setsuko Chuo-ku	Osaka		545
7	Pavlova, Ltd.	Ian Devling	Marketing Manager	74 Rose St. Moonie Ponds	Melbourne	Victoria	3058
8	Specialty Biscuits, Ltd.	Peter Wilson	Sales Representative	29 King's Way	Manchester		M14 6SD
9	PB Knäckebröd AB	Lars Peterson	Sales Agent	Kaloadagatan 13	Göteborg		S-345 67
10	Refrescos Americanas LTDA	Carlos Diaz	Marketing Manager	Av. das Americanas 12.890	Sao Paulo		5442
11	Heli Süßwaren GmbH & Co. KG	Petra Winkler	Sales Manager	Tiergartenstraße 5	Berlin		10785
12	Plutzer Lebensmittelgroßmärkte AG	Martin Bein	International Marketing Mgr.	Bogenallee 51	Frankfurt		60439
13	Nord-Ost-Fisch Handelsgesellschaft mbH	Sven Petersen	Coordinator Foreign Markets	Frahmredder 112a	Cuxhaven		27478
14	Formaggi Fortini s.r.l.	Elio Rossi	Sales Representative	Viale Dante, 75	Ravenna		48100
15	Norske Meierier	Beate Vileid	Marketing Manager	Hatlevegen 5	Sandvika		1320
16	Bigfoot Breweries	Cheryl Saylor	Regional Account Rep.	3400 - 8th Avenue Suite 210	Bend	OR	97101
17	Svensk Sjöföda AB	Michael Björn	Sales Representative	Brovallavägen 231	Stockholm		S-123 45
18	Aux joyeux ecclésiastiques	Guyène Nodier	Sales Manager	203, Rue des Francs-Bourgeois	Paris		75004
19	New England Seafood Cannery	Robb Merchant	Wholesale Account Agent	Order Processing Dept. 2100 Paul Revere Blvd.	Boston	MA	02134
20	Leka Trading	Chandra Leka	Owner	471 Serangoon Loop, Suite #402	Singapore		0512

Tabla 26: Proveedores

TerritoryID	TerritoryDescription	RegionID
01581	Westboro	1
01730	Bedford	1
01833	Georgetow	1
02116	Boston	1
02139	Cambridge	1
02184	Braintree	1
02903	Providence	1
03049	Hollis	3
03801	Portsmouth	3
06897	Wilton	1
07960	Morristown	1
08837	Edison	1
10019	New York	1
10038	New York	1
11747	Mellville	1
14450	Fairport	1
19428	Philadelphia	3
19713	Neward	1
20852	Rockville	1
27403	Greensboro	1
27511	Cary	1

Tabla 27: Territorios

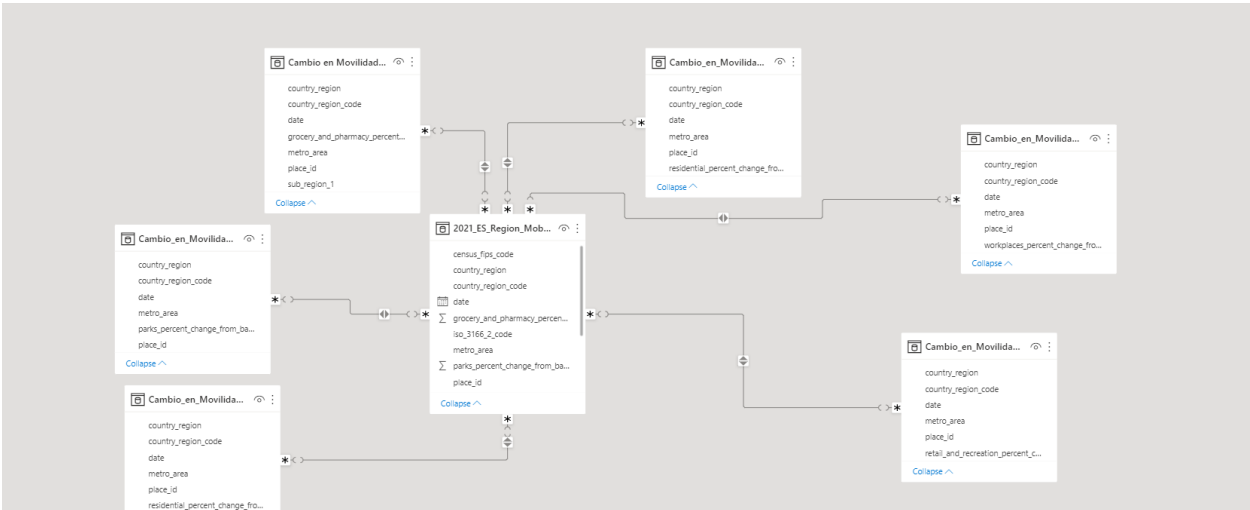
- Colocamos los gráficos a la par de las tablas con los datos más relevantes para el análisis.



RESPUESTA DEL EJERCICIO 2

Analisis multidimensional:

- Elaboramos las vistas para la optimizacion de datos a traves del modelo estrella.



- Distribuimos la informacion en tablas basdo en los puntos mas importantes para conocer el impacto del COVID 19 en el pais basado en los desplazamientos:

country_region_code	country_region	sub_region_1	sub_region_2	metro_area	iso_3166_2_code	census_fips_code	place_id	date
ES	Spain	Andalusia			ES-AN		ChIJRcWdz7HZEQORD_Pxd01lycE	Thursday, J
ES	Spain	Andalusia			ES-AN		ChIJRcWdz7HZEQORD_Pxd01lycE	Wednesday, Octo
ES	Spain	Andalusia			ES-AN		ChIJRcWdz7HZEQORD_Pxd01lycE	Thursday, Novem
ES	Spain	Andalusia			ES-AN		ChIJRcWdz7HZEQORD_Pxd01lycE	Monday, Novem
ES	Spain	Andalusia			ES-AN		ChIJRcWdz7HZEQORD_Pxd01lycE	Tuesday, Novem
ES	Spain	Andalusia			ES-AN		ChIJRcWdz7HZEQORD_Pxd01lycE	Thursday, Novem
ES	Spain	Andalusia			ES-AN		ChIJRcWdz7HZEQORD_Pxd01lycE	Monday, Novem
ES	Spain	Andalusia			ES-AN		ChIJRcWdz7HZEQORD_Pxd01lycE	Tuesday, Novem
ES	Spain	Andalusia			ES-AN		ChIJRcWdz7HZEQORD_Pxd01lycE	Saturday, Novem
ES	Spain	Asturias			ES-AS		ChIJnbCeYPqMNgOROp7GfSvztfg	Wednesday, h
ES	Spain	Balearic Islands			ES-IB		ChIJV2jp3Fq5XlRFU2l-yEDh_8	Friday, Decem
ES	Spain	Cantabria			ES-CB		ChIJy78OCdsgSQOR0MjJc4L1BAE	Tuesday, h
ES	Spain	Cantabria			ES-CB		ChIJy78OCdsgSQOR0MjJc4L1BAE	Tuesday, h
ES	Spain	Cantabria			ES-CB		ChIJy78OCdsgSQOR0MjJc4L1BAE	Saturday, h
ES	Spain	Cantabria			ES-CB		ChIJy78OCdsgSQOR0MjJc4L1BAE	Tuesday, h
ES	Spain	Cantabria			ES-CB		ChIJy78OCdsgSQOR0MjJc4L1BAE	Sunday, J
ES	Spain	Cantabria			ES-CB		ChIJy78OCdsgSQOR0MjJc4L1BAE	Friday, Septe
ES	Spain	Cantabria			ES-CB		ChIJy78OCdsgSQOR0MjJc4L1BAE	Thursday, Septe
ES	Spain	Cantabria			ES-CB		ChIJy78OCdsgSQOR0MjJc4L1BAE	Tuesday, Novem
ES	Spain	Cantabria			ES-CB		ChIJy78OCdsgSQOR0MjJc4L1BAE	Thursday, Novem

Tabla 1: Datos generales

country_region_code	country_region	sub_region_1	metro_area	place_id	date	grocery_and_pharmacy_percent_change_from_baseline
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-01	-83
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-02	-3
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-03	66
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-04	29
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-05	34
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-06	-72
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-07	10
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-08	-1
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-09	-28
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-10	2
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-11	6
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-12	4
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-13	0
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-14	-5
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-15	-6
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-16	-13
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-17	-15
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-18	-7
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-19	-10
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-20	-13
ES	Spain	Castile and LeÃ³n		ChIJ950AA5CaNw0RpVYFgwZ7npY	2021-01-21	-11

Tabla 2: Basado en los desplazamientos de grocery_and_pharmacy_percent_change_from_baseline

country_region_code	country_region	metro_area	place_id	date	parks_percent_change_from_baseline
ES	Spain		ChIJI7xhMnjjQgwR7KNoB5Qs7KY	2021-03-10	2
ES	Spain		ChIJI7xhMnjjQgwR7KNoB5Qs7KY	2021-12-08	2
ES	Spain		ChIJI7xhMnjjQgwR7KNoB5Qs7KY	2021-12-18	2
ES	Spain		ChIJRcWdz7HZEQ0RD_Pxd01lycE	2021-03-24	2
ES	Spain		ChIJRcWdz7HZEQ0RD_Pxd01lycE	2021-03-27	2
ES	Spain		ChIJRcWdz7HZEQ0RD_Pxd01lycE	2021-05-05	2
ES	Spain		ChIJRcWdz7HZEQ0RD_Pxd01lycE	2021-05-06	2
ES	Spain		ChIJRcWdz7HZEQ0RD_Pxd01lycE	2021-05-16	2
ES	Spain		ChIJRcWdz7HZEQ0RD_Pxd01lycE	2021-10-24	2
ES	Spain		ChIJZQoW955UZQ0RcMl1pXjSAwM	2021-03-25	2
ES	Spain		ChIJZQoW955UZQ0RcMl1pXjSAwM	2021-03-29	2
ES	Spain		ChIJZQoW955UZQ0RcMl1pXjSAwM	2021-04-18	2
ES	Spain		ChIJZQoW955UZQ0RcMl1pXjSAwM	2021-12-17	2
ES	Spain		ChIJaxjPWk6qDQ0R4MmfjP1jBAM	2021-11-14	2
ES	Spain		ChIJaxjPWk6qDQ0R4MmfjP1jBAM	2021-12-01	2
ES	Spain		ChIJm30-GKPebA0REmp1pXjSAwM	2021-05-13	2
ES	Spain		ChIJm30-GKPebA0REmp1pXjSAwM	2021-06-11	2
ES	Spain		ChIJm30-GKPebA0REmp1pXjSAwM	2021-06-28	2
ES	Spain		ChIJm30-GKPebA0REmp1pXjSAwM	2021-06-29	2
ES	Spain		ChIJm30-GKPebA0REmp1pXjSAwM	2021-09-11	2
ES	Spain		ChIJm30-GKPebA0REmp1pXjSAwM	2021-10-10	2

Tabla 3: Basado en los desplazamientos de parks_percent_change_from_baseline

country_region_code	country_region	metro_area	place_id	date	workplaces_percent_change_from_baseline
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-03-21	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-04-10	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-04-11	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-04-25	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-05-05	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-05-06	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-05-15	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-05-18	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-05-21	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-05-25	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-06-01	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-06-07	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-06-08	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-06-10	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-15	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-20	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-21	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-22	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-26	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-27	-14
ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-28	-14

Tabla 4: Basado en los desplazamientos de workplaces_percent_change_from_baseline

retail_and_recreation_percent_change_from_baseline	country_region_code	country_region	metro_area	place_id	date
-10	ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-06-14
-10	ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-01
-10	ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-08
-10	ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-14
-10	ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-19
-10	ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-10-21
-10	ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-11-04
-10	ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-11-15
-10	ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-11-30
-10	ES	Spain		ChIi7xhMnjjQgwR7KNoB5Qs7KY	2021-12-02
-10	ES	Spain		ChIJRcWdz7HZEQORD_Pxd01lycE	2021-06-11
-10	ES	Spain		ChIJRcWdz7HZEQORD_Pxd01lycE	2021-08-07
-10	ES	Spain		ChIJRcWdz7HZEQORD_Pxd01lycE	2021-09-04
-10	ES	Spain		ChIJRcWdz7HZEQORD_Pxd01lycE	2021-09-19
-10	ES	Spain		ChIJRcWdz7HZEQORD_Pxd01lycE	2021-10-02
-10	ES	Spain		ChIJRcWdz7HZEQORD_Pxd01lycE	2021-11-06
-10	ES	Spain		ChIJRcWdz7HZEQORD_Pxd01lycE	2021-11-22
-10	ES	Spain		ChIJRcWdz7HZEQORD_Pxd01lycE	2021-11-23
-10	ES	Spain		ChIJRcWdz7HZEQORD_Pxd01lycE	2021-12-17
-10	ES	Spain		ChIJZQoW955UZQ0RcMI1pXjSAwM	2021-03-31
-10	ES	Spain		ChIJZQoW955UZQ0RcMI1pXjSAwM	2021-05-12

Tabla 5: Basado en los desplazamientos de retail_and_recreation_percent_change_from_baseline

country_region_code	country_region	metro_area	place_id	date	residential_percent_change_from_baseline
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-03-31	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-04-06	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-04-12	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-04-13	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-04-19	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-04-20	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-04-30	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-03	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-04	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-05	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-07	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-11	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-18	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-19	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-22	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-23	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-24	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-25	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-26	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-05-31	1
ES	Spain		ChIJ28y339ptFA0RkMmfjP1jBAM	2021-06-01	1

Tabla 6: Basado en los desplazamientos de residential_percent_change_from_baseline

- Colocamos las tablas junto a los graficos y elaboramos un informe mas detallado:

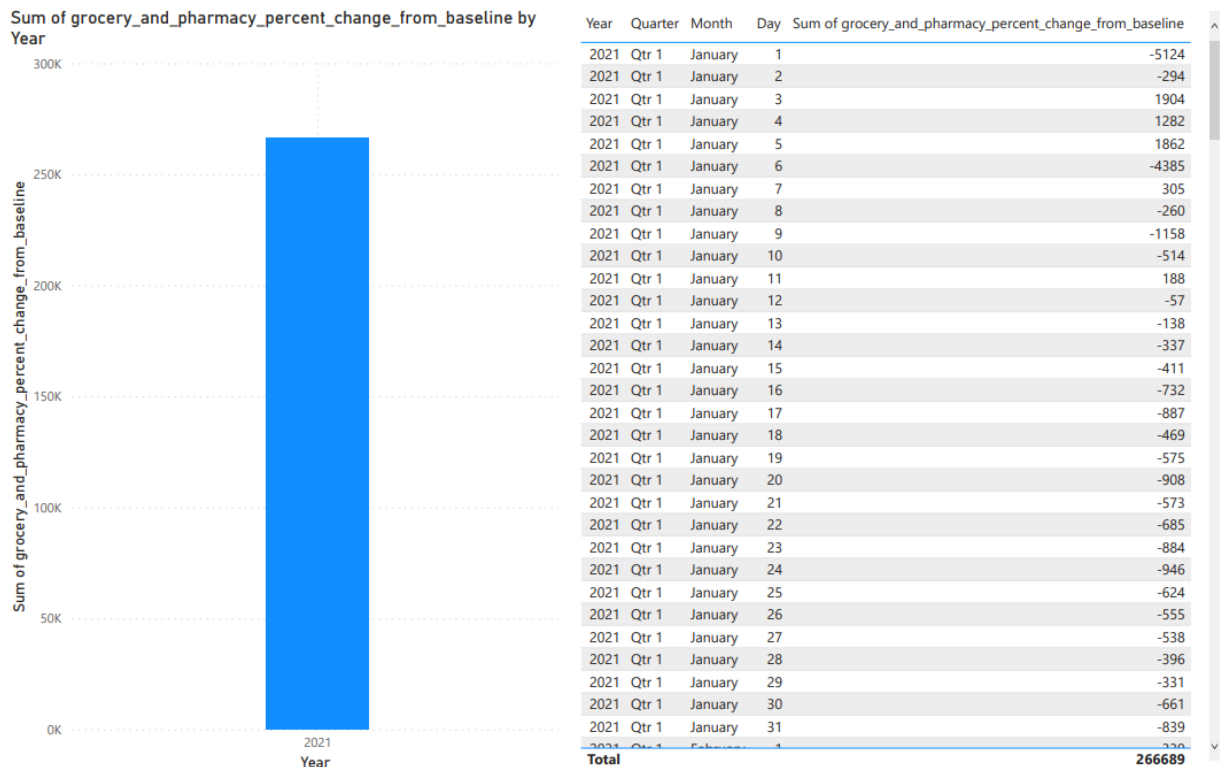


Grafico 1: Basado en el primer analisis

Year	Quarter	Month	Day	Sum of parks_percent_change_from_baseline
2021	Qtr 1	January	1	-2058
2021	Qtr 1	January	2	-1205
2021	Qtr 1	January	3	-1411
2021	Qtr 1	January	4	-146
2021	Qtr 1	January	5	235
2021	Qtr 1	January	6	-1067
2021	Qtr 1	January	7	-1686
2021	Qtr 1	January	8	-2396
2021	Qtr 1	January	9	-2636
2021	Qtr 1	January	10	-2666
2021	Qtr 1	January	11	-1325
2021	Qtr 1	January	12	-1239
2021	Qtr 1	January	13	-1261
2021	Qtr 1	January	14	-1681
2021	Qtr 1	January	15	-1900
2021	Qtr 1	January	16	-1812
2021	Qtr 1	January	17	-2023
2021	Qtr 1	January	18	-1095
2021	Qtr 1	January	19	-1214
2021	Qtr 1	January	20	-2154
2021	Qtr 1	January	21	-1893
2021	Qtr 1	January	22	-2466
2021	Qtr 1	January	23	-2914
2021	Qtr 1	January	24	-2332
2021	Qtr 1	January	25	-1900
2021	Qtr 1	January	26	-1230
2021	Qtr 1	January	27	-862
2021	Qtr 1	January	28	-684
2021	Qtr 1	January	29	-1038
2021	Qtr 1	January	30	-2446
2021	Qtr 1	January	31	-2432
2021	Qtr 1	February	1	-232
Total				650103

Sum of parks_percent_change_from_baseline by Year

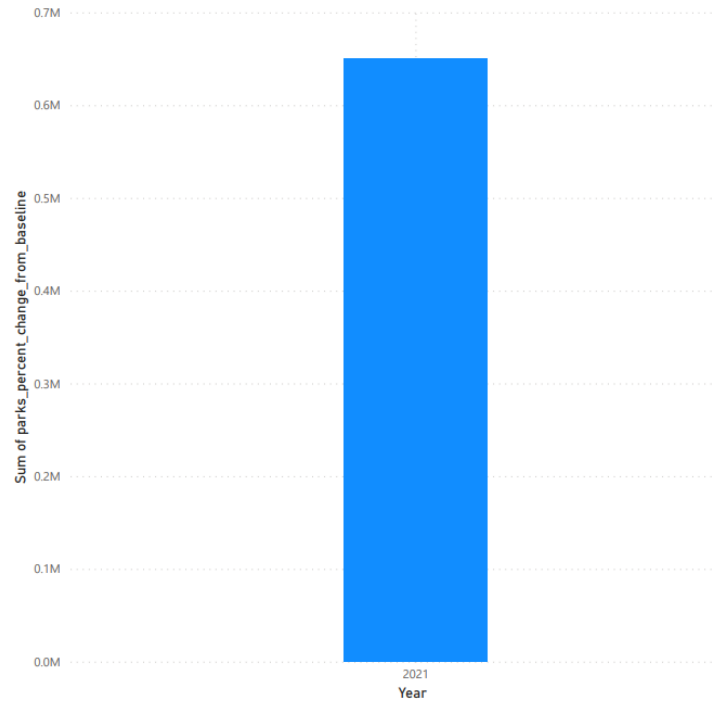
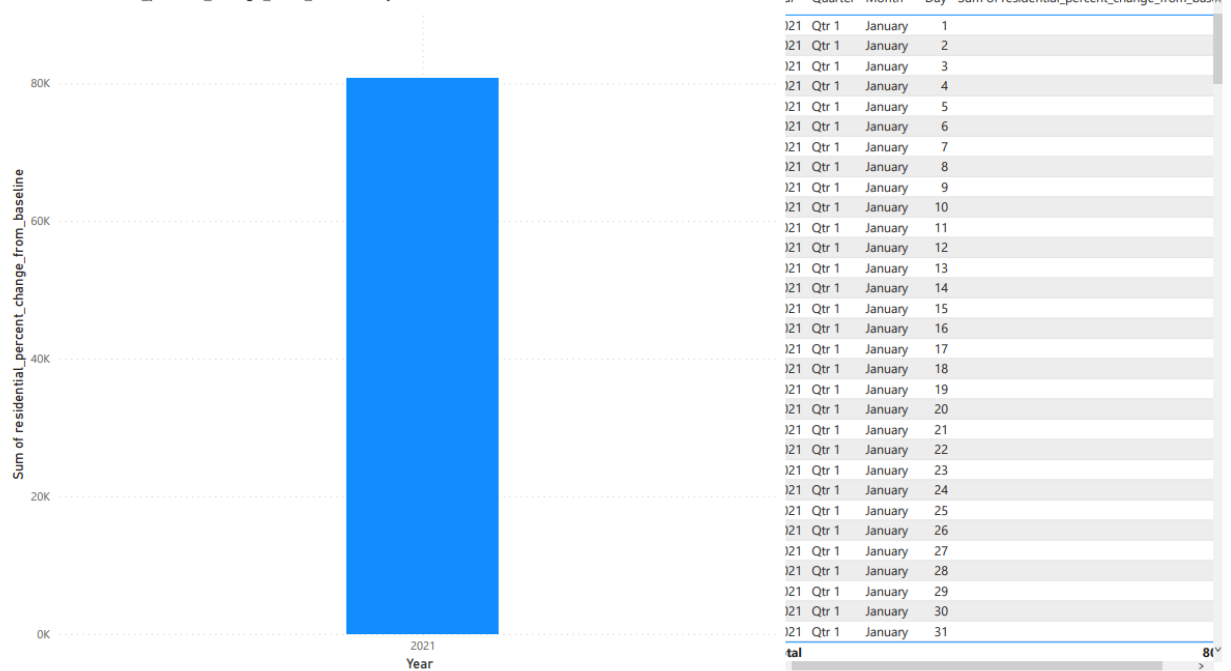


Grafico 2: Basado en el segundo análisis

Sum of residential_percent_change_from_baseline by Year



Year	Quarter	Month	Day	Sum of residential_percent_change_from_baseline
I21	Qtr 1	January	1	
I21	Qtr 1	January	2	
I21	Qtr 1	January	3	
I21	Qtr 1	January	4	
I21	Qtr 1	January	5	
I21	Qtr 1	January	6	
I21	Qtr 1	January	7	
I21	Qtr 1	January	8	
I21	Qtr 1	January	9	
I21	Qtr 1	January	10	
I21	Qtr 1	January	11	
I21	Qtr 1	January	12	
I21	Qtr 1	January	13	
I21	Qtr 1	January	14	
I21	Qtr 1	January	15	
I21	Qtr 1	January	16	
I21	Qtr 1	January	17	
I21	Qtr 1	January	18	
I21	Qtr 1	January	19	
I21	Qtr 1	January	20	
I21	Qtr 1	January	21	
I21	Qtr 1	January	22	
I21	Qtr 1	January	23	
I21	Qtr 1	January	24	
I21	Qtr 1	January	25	
I21	Qtr 1	January	26	
I21	Qtr 1	January	27	
I21	Qtr 1	January	28	
I21	Qtr 1	January	29	
I21	Qtr 1	January	30	
I21	Qtr 1	January	31	
Total				80000

Grafico 3: Basado en el tercer análisis

Year	Quarter	Month	Day	Sum of retail_and_recreation_percent_change_from_baseline
2021	Qtr 1	January	1	-4601
2021	Qtr 1	January	2	-2197
2021	Qtr 1	January	3	-1919
2021	Qtr 1	January	4	-561
2021	Qtr 1	January	5	-526
2021	Qtr 1	January	6	-3379
2021	Qtr 1	January	7	-2027
2021	Qtr 1	January	8	-2716
2021	Qtr 1	January	9	-3427
2021	Qtr 1	January	10	-3463
2021	Qtr 1	January	11	-2063
2021	Qtr 1	January	12	-2208
2021	Qtr 1	January	13	-2464
2021	Qtr 1	January	14	-2615
2021	Qtr 1	January	15	-2956
2021	Qtr 1	January	16	-3323
2021	Qtr 1	January	17	-3673
2021	Qtr 1	January	18	-2503
2021	Qtr 1	January	19	-2752
2021	Qtr 1	January	20	-3051
2021	Qtr 1	January	21	-3010
2021	Qtr 1	January	22	-3404
2021	Qtr 1	January	23	-3792
2021	Qtr 1	January	24	-3988
2021	Qtr 1	January	25	-2932
2021	Qtr 1	January	26	-2951
2021	Qtr 1	January	27	-3070
2021	Qtr 1	January	28	-2998
2021	Qtr 1	January	29	-3274
2021	Qtr 1	January	30	-3777
2021	Qtr 1	January	31	-4067
2021	Qtr 1	February	1	-4067
Total				-406843

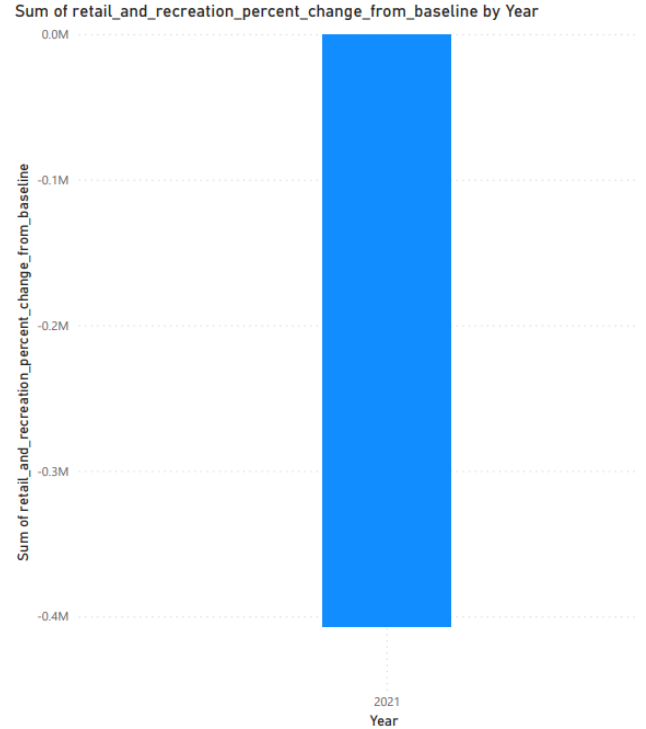


Grafico 4: Basado en el cuarto análisis.

Year	Quarter	Month	Day	Sum of transit_stations_percent_change_from_baseline
2021	Qtr 1	January	1	-4177
2021	Qtr 1	January	2	-1825
2021	Qtr 1	January	3	-2010
2021	Qtr 1	January	4	-1499
2021	Qtr 1	January	5	-1483
2021	Qtr 1	January	6	-3030
2021	Qtr 1	January	7	-1912
2021	Qtr 1	January	8	-2408
2021	Qtr 1	January	9	-2884
2021	Qtr 1	January	10	-2928
2021	Qtr 1	January	11	-1583
2021	Qtr 1	January	12	-1606
2021	Qtr 1	January	13	-1724
2021	Qtr 1	January	14	-1969
2021	Qtr 1	January	15	-2142
2021	Qtr 1	January	16	-2526
2021	Qtr 1	January	17	-2921
2021	Qtr 1	January	18	-1805
2021	Qtr 1	January	19	-1983
2021	Qtr 1	January	20	-2268
2021	Qtr 1	January	21	-2152
2021	Qtr 1	January	22	-2450
2021	Qtr 1	January	23	-3079
2021	Qtr 1	January	24	-3109
2021	Qtr 1	January	25	-2081
2021	Qtr 1	January	26	-1998
2021	Qtr 1	January	27	-1971
2021	Qtr 1	January	28	-1946
2021	Qtr 1	January	29	-2197
2021	Qtr 1	January	30	-3089
2021	Qtr 1	January	31	-3167
2021	Qtr 1	February	1	-4067
Total				-165784

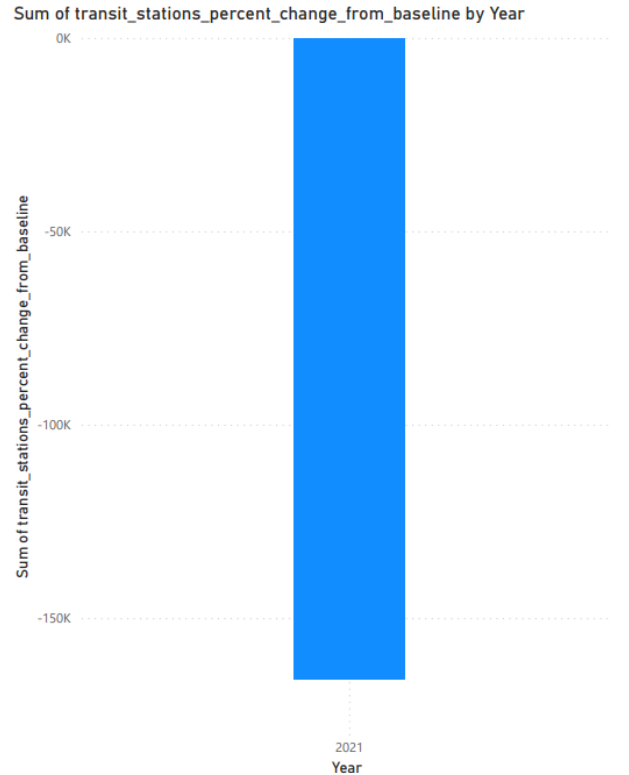


Grafico 5: Basado en el quinto análisis

Year	Quarter	Month	Day	Sum of workplaces_percent_change_from_baseline
2021	Qtr 1	January	1	-5044
2021	Qtr 1	January	2	-1338
2021	Qtr 1	January	3	-814
2021	Qtr 1	January	4	-2331
2021	Qtr 1	January	5	-2392
2021	Qtr 1	January	6	-4630
2021	Qtr 1	January	7	-2170
2021	Qtr 1	January	8	-2066
2021	Qtr 1	January	9	-1846
2021	Qtr 1	January	10	-1684
2021	Qtr 1	January	11	-1494
2021	Qtr 1	January	12	-1426
2021	Qtr 1	January	13	-1316
2021	Qtr 1	January	14	-1494
2021	Qtr 1	January	15	-1536
2021	Qtr 1	January	16	-1647
2021	Qtr 1	January	17	-1810
2021	Qtr 1	January	18	-1443
2021	Qtr 1	January	19	-1501
2021	Qtr 1	January	20	-1580
2021	Qtr 1	January	21	-1535
2021	Qtr 1	January	22	-1609
2021	Qtr 1	January	23	-1837
2021	Qtr 1	January	24	-1998
2021	Qtr 1	January	25	-1440
2021	Qtr 1	January	26	-1441
2021	Qtr 1	January	27	-1424
2021	Qtr 1	January	28	-1487
2021	Qtr 1	January	29	-1545
2021	Qtr 1	January	30	-1825
2021	Qtr 1	January	31	-2057
2021	Qtr 1	February	1	-1240
Total				-411723

Sum of workplaces_percent_change_from_baseline by Year

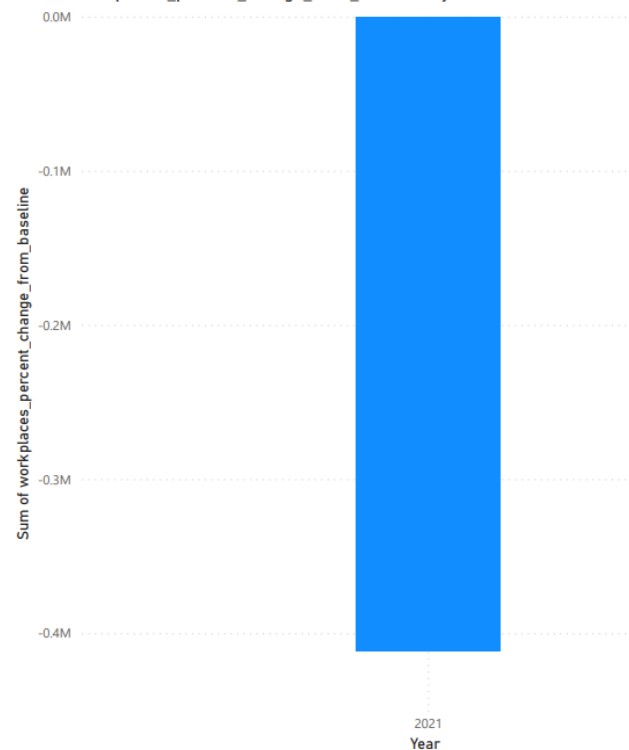


Grafico 6: Basado en el sexto análisis.