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A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W						
1	Type	Days for sl	Days for cl	Benefit ps	Sales per c	Delivery St	Lat	deliv	Category I	Customer	Customer	Customer	Customer	Customer	Customer	Customer	Customer	Customer	Customer	Customer	Customer	Customer	Customer					
2	DEBIT	3	4	91.25	314.64	Advance sl	0	73	Sporting G	Caguas	Puerto Ric	X00000000	Cally	20755	Holloway	X000000000	Consumer PR	5365	Nobl	725	2	Fitness	18.2514					
3	TRANSFER	5	4	-249.09	311.36	Late delivery	1	73	Sporting G	Caguas	Puerto Ric	X00000000	Irene	14992	Luna	X000000000	Consumer PR	2679	Rusti	725	2	Fitness	18.2794					
4	CASH	4	4	-247.78	309.72	Shipping o	0	73	Sporting G	San Jose	EE. UU.	X000000000	Gilliam	14991	Maldonado	X000000000	Consumer CA	8510	Roun	95125	2	Fitness	37.2922					
5	DEBIT	3	4	22.86	304.81	Advance sl	0	73	Sporting G	Los Angeles	EE. UU.	X00000000	Tana	14990	Tate	X000000000	Home Offi CA	3200	Amos	90027	2	Fitness	34.1259					
6	PAYMENT	2	4	134.21	298.25	Advance sl	0	73	Sporting G	Caguas	Puerto Ric	X00000000	Orli	14989	Hendricks	X000000000	Corporate PR	8671	Iron	725	2	Fitness	18.2537					
7	TRANSFER	6	4	18.58	294.98	Shipping ci	0	73	Sporting G	Tonawand	EE. UU.	X00000000	Kimberly	14988	Flowers	X000000000	Consumer NY	2122	Hazy	14150	2	Fitness	43.0139					
8	DEBIT	2	1	95.18	288.42	Late deliv	1	73	Sporting G	Caguas	Puerto Ric	X000000000	Constance	14987	Terrrell	X000000000	Home Offi PR	1879	Gree	725	2	Fitness	18.2425					
9	TRANSFER	2	1	68.43	285.14	Late deliv	1	73	Sporting G	Miami	EE. UU.	X00000000	Erica	14986	Stevens	X000000000	Corporate FL	7595	Cotts	33162	2	Fitness	25.9288					
10	CASH	3	2	133.72	278.59	Late deliv	1	73	Sporting G	Caguas	Puerto Ric	X00000000	Nichole	14985	Olsen	X000000000	Corporate PR	2051	Dust	725	2	Fitness	18.2332					
11	CASH	2	1	132.15	275.31	Late deliv	1	73	Sporting G	San Ramon	EE. UU.	X00000000	Oprah	14984	Delacruz	X000000000	Corporate CA	9139	Blue	94583	2	Fitness	37.7739					
12	TRANSFER	6	2	130.58	272.03	Shipping ci	0	73	Sporting G	Caguas	Puerto Ric	X00000000	Germane	14983	Short	X000000000	Corporate PR	4058	Quay	725	2	Fitness	18.2828					
13	TRANSFER	5	2	45.69	268.76	Late deliv	1	73	Sporting G	Freeport	EE. UU.	X00000000	Freyia	14982	Robbins	X000000000	Consumer NY	3243	Shad	11520	2	Fitness	40.6548					
14	TRANSFER	4	2	21.76	262.2	Late deliv	1	73	Sporting G	Salinas	EE. UU.	X00000000	Cassandra	14981	Jensen	X000000000	Corporate CA	311	Sunny	93905	2	Fitness	36.6763					
15	DEBIT	2	1	24.58	245.81	Late deliv	1	73	Sporting G	Caguas	Puerto Ric	X00000000	Natalie	14980	McFarlane	X000000000	Corporate PR	2531	Wish	725	2	Fitness	18.2784					
16	TRANSFER	2	1	16.39	327.75	Late deliv	1	73	Sporting G	Peabody	EE. UU.	X00000000	Kimberley	14979	Hadden	X000000000	Corporate MA	6417	Silver	1960	2	Fitness	42.5621					
17	DEBIT	2	1	-259.58	324.47	Late deliv	1	73	Sporting G	Caguas	Puerto Ric	X00000000	Sade	14978	Lancaster	X000000000	Corporate PR	257	Havez	725	2	Fitness	18.2840					
18	PAYMENT	5	2	-246.36	321.2	Late deliv	1	73	Sporting G	Canovana	Puerto Ric	X00000000	Bryrnie	14977	Giles	X000000000	Corporate PR	7342	Hariz	729	2	Fitness	18.3957					
19	CASH	2	1	23.84	317.92	Late deliv	1	73	Sporting G	Paramoun	EE. UU.	X00000000	Clara	14976	Bird	X000000000	Corporate CA	7787	Lazy	90723	2	Fitness	38.8986					
20	DEBIT	2	1	102.26	314.64	Late deliv	1	73	Sporting G	Caguas	Puerto Ric	X000000000	Bo	19475	Griffin	X0000000												

Understanding the Data:

Data Structure

The dataset includes:

1. **Customer Information:** Customer demographics, IDs, and purchase history.
2. **Product Details:** Product IDs, categories, and pricing.
3. **Order Information:** Order IDs, dates, and delivery status.
4. **Sales and Revenue Data:** Sales figures and revenue metrics.
5. **Logistics Data:** Shipment routes, transportation methods, and delivery times.

Data Quality and Preprocessing

To ensure data quality:

- Address missing values through imputation or exclusion.
- Normalize data for consistency.
- Detect and manage outliers.

Key Metrics and Analytical Applications

Key metrics derived from the data include:

- Order fulfillment rate
- Inventory turnover ratio
- Customer satisfaction index
- Transportation cost efficiency

These metrics support descriptive, analytics, enabling businesses to optimize supply chain through Qlik's advanced analytics capabilities.

Data Preparation:

- **Cleaning the data:** This involves removing or correcting any errors or inconsistencies in the data. This can include handling missing values, removing duplicate entries, and correcting formatting issues.
- **Transforming the data:** Data often needs to be transformed into a format that is suitable for visualization. This can include aggregating data, converting data types, and creating new variables or features.

- **Exploring the data:** Before visualizing the data, it's important to explore it to understand its structure and identify any patterns or trends. This can involve calculating summary statistics, creating visualizations such as histograms or scatter plots, and identifying outliers.
- **Filtering the data:** Sometimes it's necessary to focus on specific subsets of data for visualization. This can involve filtering the data based on certain criteria or selecting specific variables of interest.
- **Preparing the data for visualization software:** Depending on the visualization software being used, the data may need to be formatted in a specific way. This can include restructuring the data into tables or matrices, and ensuring that the data is in a format that the software can interpret.
- **Ensuring data accuracy and completeness:** It's important to verify that the data is accurate and complete before visualizing it. This can involve checking for errors or inconsistencies in the data, and ensuring that all necessary data is available for analysis.