Data Cleansing and Wrangling

The goal of developing this project is to demonstrate and investigate the workflow of cleaning and changing raw datasets into correctly used datasets that can be used for further operations by utilizing Jupyter notebook.

About dataset

The dataset is provided by Pacmann.io in Business Analytics module. The dataset contains 53 columns and 180520 rows of information about the supply chain domain area. The dataset contains information about customers, orders, departments, products, sales, profits, and shipments.

	A	B	C	D	E	F	G	H	I		J	K	L	M	N	O	P	Q	R	
	Type	Days	Days	Benefit per or	Sales per custom	Delivery Status	Late_de	Categor	Category Name		Customer City	Customer Count	Customer Emai	Customer Fna	Customer Id	Customer Lnam	Customer Pass	Customer Segm	Customer	Customer
	DEBIT	3	4	91.25	314.6400146	Advance shipping	0	73	Sporting Goods		Caguas	Puerto Rico	XXXXXXXXX	Cally	20755	Holloway	XXXXXXXXX	Consumer	PR	5365 Nob
	TRANSFER	5	4	-249.09	311.3599854	Late delivery	1	73	Sporting Goods		Caguas	Puerto Rico	XXXXXXXXX	Irene	19492	Luna	XXXXXXXXX	Consumer	PR	2679 Rust
	CASH	4	4	-247.78	309.7200012	Shipping on time	0	73	Sporting Goods		San Jose	EE. UU.	XXXXXXXXX	Gillian	19491	Maldonado	XXXXXXXXX	Consumer	CA	8510 Rour
	DEBIT	3	4	22.8600006	304.8099976	Advance shipping	0	73	Sporting Goods		Los Angeles	EE. UU.	XXXXXXXXX	Tana	19490	Tate	XXXXXXXXX	Home Office	CA	3200 Amb
	PAYMENT	2	4	134.210007	298.25	Advance shipping	0	73	Sporting Goods		Caguas	Puerto Rico	XXXXXXXXX	Orli	19489	Hendricks	XXXXXXXXX	Corporate	PR	8671 Iron
	TRANSFER	6	4	18.5799999	294.980011	Shipping canceled	0	73	Sporting Goods		Tonawanda	EE. UU.	XXXXXXXXX	Kimberly	19488	Flowers	XXXXXXXXX	Consumer	NY	2122 Hazy
	DEBIT	2	1	95.1800003	288.4200134	Late delivery	1	73	Sporting Goods		Caguas	Puerto Rico	XXXXXXXXX	Constance	19487	Terrell	XXXXXXXXX	Home Office	PR	1879 Gree
	TRANSFER	2	1	68.4300003	285.1400146	Late delivery	1	73	Sporting Goods		Miami	EE. UU.	XXXXXXXXX	Erica	19486	Stevens	XXXXXXXXX	Corporate	FL	7595 Cott
	CASH	3	2	133.720001	278.5899963	Late delivery	1	73	Sporting Goods		Caguas	Puerto Rico	XXXXXXXXX	Nichole	19485	Olsen	XXXXXXXXX	Corporate	PR	2051 Dust
	CASH	2	1	132.149994	275.3099976	Late delivery	1	73	Sporting Goods		San Ramon	EE. UU.	XXXXXXXXX	Oprah	19484	Delacruz	XXXXXXXXX	Corporate	CA	9139 Blue
	TRANSFER	6	2	130.580002	272.0299988	Shipping canceled	0	73	Sporting Goods		Caguas	Puerto Rico	XXXXXXXXX	Germane	19483	Short	XXXXXXXXX	Corporate	PR	4058 Quie
	TRANSFER	5	2	45.6899986	268.7600098	Late delivery	1	73	Sporting Goods		Freeport	EE. UU.	XXXXXXXXX	Freya	19482	Robbins	XXXXXXXXX	Consumer	NY	3243 Shac
	TRANSFER	4	2	21.7600002	262.2000122	Late delivery	1	73	Sporting Goods		Salinas	EE. UU.	XXXXXXXXX	Cassandra	19481	Jensen	XXXXXXXXX	Corporate	CA	131 Sunny
	DEBIT	2	1	24.5799999	245.8099976	Late delivery	1	73	Sporting Goods		Caguas	Puerto Rico	XXXXXXXXX	Natalie	19480	Mcfadden	XXXXXXXXX	Corporate	PR	2531 Wis

Customer Street	Customer Zipc	Depart	Department N	Latitude	Longitude	Market	Order City	Order Country	Order Cust	order date (DateOrd	Order Id	Order Item	Order Item Disc	Order Item Disc	Order Iter
5365 Noble Nectar Island	725	2	Fitness	18.2514534	-66.037056	Pacific Asia	Bekasi	Indonesia	20755	01/31/2018 22:56	77202	1360	13.10999966	0.039999999	180517
2679 Rustic Loop	725	2	Fitness	18.27945137	-66.0370636	Pacific Asia	Bikaner	India	19492	01/13/2018 12:27	75939	1360	16.38999999	0.050000001	179254
8510 Round Bear Gate	95125	2	Fitness	37.29223251	-121.881279	Pacific Asia	Bikaner	India	19491	01/13/2018 12:06	75938	1360	18.03000069	0.059999999	179253
3200 Amber Bend	90027	2	Fitness	34.12594605	-118.291016	Pacific Asia	Townsville	Australia	19490	01/13/2018 11:45	75937	1360	22.94000053	0.07	179252
8671 Iron Anchor Corners	725	2	Fitness	18.25376892	-66.0370483	Pacific Asia	Townsville	Australia	19489	01/13/2018 11:24	75936	1360	29.5	0.090000004	179251
2122 Hazy Corner	14150	2	Fitness	43.01396942	-78.8790665	Pacific Asia	Toowoomba	Australia	19488	01/13/2018 11:03	75935	1360	32.77999878	0.100000001	179250
1879 Green Pine Bank	725	2	Fitness	18.24253845	-66.037056	Pacific Asia	Guangzhou	China	19487	01/13/2018 10:42	75934	1360	39.33000183	0.119999997	179249
7595 Cotton Log Row	33162	2	Fitness	25.92886925	-80.1628723	Pacific Asia	Guangzhou	China	19486	01/13/2018 10:21	75933	1360	42.61000061	0.129999995	179248
2051 Dusty Route	725	2	Fitness	18.23322296	-66.037056	Pacific Asia	Guangzhou	China	19485	01/13/2018 10:00	75932	1360	49.15999985	0.150000006	179247
9139 Blue Blossom Court	94583	2	Fitness	37.77399063	-121.966629	Pacific Asia	Guangzhou	China	19484	01/13/2018 09:39	75931	1360	52.43999863	0.159999996	179246
4058 Quiet Heights	725	2	Fitness	18.28284454	-66.037056	Pacific Asia	Tokio	JapÃ²n	19483	01/13/2018 09:18	75930	1360	55.72000122	0.170000002	179245
3243 Shady Corner	11520	2	Fitness	40.65486527	-73.5870743	Pacific Asia	Manado	Indonesia	19482	01/13/2018 08:57	75929	1360	59	0.180000007	179244
131 Sunny Treasure Green	93905	2	Fitness	36.6763382	-121.656517	Pacific Asia	Manado	Indonesia	19481	01/13/2018 08:36	75928	1360	65.55000305	0.200000003	179243
2531 Wishing Square	725	2	Fitness	18.27843857	-66.037056	Pacific Asia	Sangli	India	19480	01/13/2018 08:15	75927	1360	81.94000244	0.25	179242

Order Item	Order Item Prc	Orde	Sales	Order Item Tot	Order Profit F	Order Region	Order State	Order Status	Order	Product C	Produc	Produc	Product Image	Product Name	Product P	Product St	shipping date (DateOrders)	Shipping Mode
327.75	0.289999992	1	327.8	314.6400146	91.25	Southeast Asia	Java Occidental	COMPLETE		1360	73		http://images.a	Smart watch	327.75	0	02/03/2018 22:56	Standard Class
327.75	-0.80000001	1	327.8	311.3599854	-249.09	South Asia	RajastÃn	PENDING		1360	73		http://images.a	Smart watch	327.75	0	01/18/2018 12:27	Standard Class
327.75	-0.80000001	1	327.8	309.7200012	-247.78	South Asia	RajastÃn	CLOSED		1360	73		http://images.a	Smart watch	327.75	0	01/17/2018 12:06	Standard Class
327.75	0.079999998	1	327.8	304.8099976	22.8600006	Oceania	Queensland	COMPLETE		1360	73		http://images.a	Smart watch	327.75	0	01/16/2018 11:45	Standard Class
327.75	0.449999988	1	327.8	298.25	134.210007	Oceania	Queensland	PENDING_PAYMENT		1360	73		http://images.a	Smart watch	327.75	0	01/15/2018 11:24	Standard Class
327.75	0.059999999	1	327.8	294.980011	18.5799999	Oceania	Queensland	CANCELED		1360	73		http://images.a	Smart watch	327.75	0	01/19/2018 11:03	Standard Class
327.75	0.330000013	1	327.8	288.4200134	95.1800003	Eastern Asia	Guangdong	COMPLETE		1360	73		http://images.a	Smart watch	327.75	0	01/15/2018 10:42	First Class
327.75	0.239999995	1	327.8	285.1400146	68.4300003	Eastern Asia	Guangdong	PROCESSING		1360	73		http://images.a	Smart watch	327.75	0	01/15/2018 10:21	First Class
327.75	0.479999989	1	327.8	278.5899963	133.720001	Eastern Asia	Guangdong	CLOSED		1360	73		http://images.a	Smart watch	327.75	0	01/16/2018 10:00	Second Class
327.75	0.479999989	1	327.8	275.3099976	132.149994	Eastern Asia	Guangdong	CLOSED		1360	73		http://images.a	Smart watch	327.75	0	01/15/2018 09:39	First Class
327.75	0.479999989	1	327.8	272.0299988	130.580002	Eastern Asia	Tokio	SUSPECTED_FRAUD		1360	73		http://images.a	Smart watch	327.75	0	01/19/2018 09:18	Second Class
327.75	0.170000002	1	327.8	268.7600098	45.6899986	Southeast Asia	CÃlebes Septent	PENDING		1360	73		http://images.a	Smart watch	327.75	0	01/18/2018 08:57	Second Class
327.75	0.079999998	1	327.8	262.2000122	21.7600002	Southeast Asia	CÃlebes Septent	PENDING		1360	73		http://images.a	Smart watch	327.75	0	01/17/2018 08:36	Second Class
327.75	0.100000001	1	327.8	245.8099976	24.5799999	South Asia	Maharashtra	COMPLETE		1360	73		http://images.a	Smart watch	327.75	0	01/15/2018 08:15	First Class

Data Pre-Processing

The initial step in working with Juypter notebook is to import the library that will be used for cleaning and wrangling.

```
# importing library packages
import pandas as pd
import matplotlib.pyplot as plt
import warnings
```

After importing the libraries, I prefer to turn off future warning to avoid any unnecessary warning during processes (optional).

```
# deactivating future warning
warnings.filterwarnings ("ignore", category = FutureWarning)
```

The following step is to import the data into Jupyter notebook. The dataset is saved into "data" using pd.read_csv, and data.head() is used to display a preview of our data.

```
#importing dataset
data = pd.read_csv("supply_chain.csv")
data.head(5)
```

	Type	Days for shipping (real)	Days for shipment (scheduled)	Benefit per order	Sales per customer	Delivery Status	Late_delivery_risk	Category Id	Category Name	Customer City	...	Order Zipcode	Product Card Id	Product Category Id	Des
0	DEBIT	3	4	91.250000	314.640015	Advance shipping	0	73	Sporting Goods	Caguas	...	NaN	1360	73	
1	TRANSFER	5	4	-249.089996	311.359985	Late delivery	1	73	Sporting Goods	Caguas	...	NaN	1360	73	
2	CASH	4	4	-247.779999	309.720001	Shipping on time	0	73	Sporting Goods	San Jose	...	NaN	1360	73	
3	DEBIT	3	4	22.860001	304.809998	Advance shipping	0	73	Sporting Goods	Los Angeles	...	NaN	1360	73	
4	PAYMENT	2	4	134.210007	298.250000	Advance shipping	0	73	Sporting Goods	Caguas	...	NaN	1360	73	

5 rows × 53 columns

To ease the work and display all the columns, the following syntax was perform

```
# setting pandas to show entire columns from dataset
pd.set_option('display.max_columns',len(data.columns))
```

Checking the dataset dimension, The dataset has 180519 rows and 53 columns

```
# checking dataset dimension
row, columns = data.shape

print(f"Supply chain dataset has {row} rows and {columns} columns.")
```

Checking data type, the aim of this type of evaluating is to know which type of data represent by each column.

```
# checking data type
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 180519 entries, 0 to 180518
Data columns (total 53 columns):
 #   Column                         Non-Null Count   Dtype
---  ------                         --------------   -----
 0   Type                           180519 non-null  object
 1   Days for shipping (real)       180519 non-null  int64
 2   Days for shipment (scheduled)  180519 non-null  int64
 3   Benefit per order              180519 non-null  float64
 4   Sales per customer             180519 non-null  float64
 5   Delivery Status                180519 non-null  object
 6   Late_delivery_risk             180519 non-null  int64
 7   Category Id                    180519 non-null  int64
 8   Category Name                  180519 non-null  object
 9   Customer City                  180519 non-null  object
 10  Customer Country               180519 non-null  object
```

Checking missing value from each column. The goal of screening for missing values is to become acquainted with the dataset and determine whether the null value should be imputed or distorted.

```
# checking missing value
data.isna().sum()
```

```
Type                             0
Days for shipping (real)         0
Days for shipment (scheduled)    0
Benefit per order                0
Sales per customer               0
Delivery Status                  0
Late_delivery_risk               0
Category Id                      0
Category Name                    0
Customer City                    0
Customer Country                 0
Customer Email                   0
Customer Fname                   0
Customer Id                      0
Customer Lname                   8
Customer Password                0
```

Checking the duplication in dataset. Sometime duplicate data can skew the data set so it should be removed. In this dataset, there is no duplication was found.

```
# checking the duplicated data
data.duplicated().sum()
```

Data cleaning & wrangling processes

After performing prior processes. It can be concluded that some columns containing unnecessary information. So, the columns were dropped from the data.

```
# after checking the data structure, some missing values and unuseful data columns are found.
# those columns are dropped.
```

```
data = data.drop(["Customer Email","Customer Password", "Product Image","Order Zipcode","Product Description", "Product Status","Customer Z
```

The column names are written inconsistently, as seen below. To standardize the column name, a function was applied to each column to reformat or rename the column.

Type	Days for shipping (real)	Days for shipment (scheduled)	Benefit per order	Sales per customer	Delivery Status	Late_delivery_risk	Category Id	Category Name	Customer City	Customer Country	Customer Fname	Customer Id

Developing a unique function to expedite iteration work

```
# creating function for renaming columns name

def rename_column(data, initial, final):
    """
    Rename a column in DataFrame.

    Args:
        data: DataFrame containing the column to be rename.
        initial (str) : The current column name.
        final (str) : The new column name.

    Returns :
        data: DataFrmae with the column renamed.
    """
    data.rename(columns={initial: final}, inplace = True)
    return data.head(5)
```

Assigning the function

```
# renaming the column's name by calling the created function
rename_column(data, "Type", "transaction_type")
rename_column(data, "Days for shipping (real)", "processing_time(day)")
rename_column(data, "Days for shipment (scheduled)", "delivery_estimate(day)")
rename_column(data, "Benefit per order", "profit_per_order")
rename_column(data, "Sales per customer", "sales_per_customer")
rename_column(data, "Delivery Status", "delivery_status")
rename_column(data, "Late_delivery_risk", "late_delivery_risk")
rename_column(data, "Category Id", "category_id")
rename_column(data, "Category Name", "category_name")
rename_column(data, "Customer City", "customer_city")
rename_column(data, "Customer Country", "customer_country")
rename_column(data, "Customer Fname", "customer_first_name")
rename_column(data, "Customer Id", "customer_id")
rename_column(data, "Customer Lname", "customer_last_name")
rename_column(data, "Customer Segment", "customer_segment")
rename_column(data, "Customer State", "customer_state")
rename_column(data, "Customer Street", "customer_address")
rename_column(data, "Department Id", "department_id")
rename_column(data, "Department Name", "department_name")
rename_column(data, "Latitude", "latitude")
rename_column(data, "Longitude", "longitude")
rename_column(data, "Market", "market")
rename_column(data, "Order City", "order_city")
rename_column(data, "Order Country", "order_country")
rename_column(data, "Order Customer Id", "order_customer_id")
rename_column(data, "order date (DateOrders)", "order_date")
rename_column(data, "Order Id", "order_id")
rename_column(data, "Order Item Cardprod Id", "order_item_productcode_id")
rename_column(data, "Order Item Discount", "order_item_discount")
rename_column(data, "Order Item Discount Rate", "order_item_discount_rate")
rename_column(data, "Order Item Id", "order_item_id")
rename_column(data, "Order Item Product Price", "order_item_product_price")
rename_column(data, "Order Item Profit Ratio", "order_item_profit_ratio")
```

```
rename_column(data, "Order Item Quantity", "order_item_qty")
rename_column(data, "Sales", "sales")
rename_column(data, "Order Item Total", "order_item_total")
rename_column(data, "Order Profit Per Order", "order_profit_per_order")
rename_column(data, "Order Region", "order_region")
rename_column(data, "Order State", "order_state")
rename_column(data, "Order Status", "order_status")
rename_column(data, "Product Card Id", "product_code_id")
rename_column(data, "Product Category Id", "product_category_id")
rename_column(data, "Product Name", "product_name")
rename_column(data, "Product Price", "product_price")
rename_column(data, "shipping date (DateOrders)", "shipping_date")
rename_column(data, "Shipping Mode", "shipping_mode")
```

transaction_type	processing_time(day)	delivery_estimate(day)	profit_per_order	sales_per_customer	delivery_status	late_delivery_risk	category_id

The next step is to reformat some columns into uniformity as seen below by applying a function.

delivery_status	delivery_status
Advance shipping	Advance Shipping
Late delivery	Late Delivery
Shipping on time	Shipping On Time
Advance shipping	Advance Shipping
Advance shipping	Advance Shipping

Defining function to reformat the string into "title-type" of string to enhance the uniformity in dataset.

```
# define function to format columns into title formatting
def title_string(data, string):
    data[string] = data[string].str.title()
    return data.head(5)
```

applying the function into desired columns

```
#applying the function

title_string(data,"transaction_type")
title_string(data,"delivery_status")
title_string(data, "order_status")
```

There are undesirable values found in columns "order_status" and "customer_country"; to handle this, a replace function was used to convert data values into a better shape.

```
# define function to replace unwanted character/information within columns.
def replace(data, string, initial, replacing):
```

```
    data[string] = data[string].str.replace(initial,replacing)
    return data.head(5)
```

```
# calling the function
replace(data, "order_status", "_"," ")

# "EE. UU." known as United States in spanish.
replace(data, "customer_country", "EE. UU.","United States")
```

customer_country
Puerto Rico
Puerto Rico
EE. UU.
EE. UU.
Puerto Rico

before applying function

customer_country
Puerto Rico
Puerto Rico
United States
United States
Puerto Rico

after applying function

Because the columns indicating "currency" have fairly large decimal numbers, I round them up to two decimal places instead. To perform this process, I applied the defined function as I performed before.

```
# Some columns that representing currency are having inconsitency decimal.
#defining function to round up the decimal.
def round_decimal(data, column):
    data[column] = data[column].apply(lambda x: round(x,2))
    return data.head(5)
```

```
# calling the function
round_decimal(data, "profit_per_order")
round_decimal(data, "sales_per_customer")
round_decimal(data, "order_item_discount")
round_decimal(data, "order_item_total")
round_decimal(data, "order_profit_per_order")
round_decimal(data, "order_item_discount_rate")
round_decimal(data, "order_item_product_price")
round_decimal(data, "order_item_profit_ratio")
round_decimal(data, "sales")
round_decimal(data, "product_price")
```

profit_per_order	sales_per_customer
91.250000	314.640015
-249.089996	311.359985
-247.779999	309.720001
22.860001	304.809998
134.210007	298.250000

before

profit_per_order	sales_per_customer
91.25	314.64
-249.09	311.36
-247.78	309.72
22.86	304.81
134.21	298.25

after

The values in the few columns providing information about city, nation, and state are written in Spanish; to translate them to English, I utilized ChatGPT and created dictionary mapping to replace Spanish with English.

Converting from Spanish into English version for order city by helping of dictionary mapping

```
# creating dictionary mapping for order_city column

order_city_es_to_en = {
    "Berdyans'k":'Berdyansk',
    "Cournon-d'Auvergne":"Cournon-d'Auvergne",
    "Donets'k":'Donetsk',
    "Ivano-Frankivs'k":'Ivano-Frankivsk',
    "K'ut'aisi":'Kutaisi',
    "Oktyabr'skiy":'Oktyabrsky',
    "Quartu Sant'Elena":"Quartu Sant'Elena",
    "Villenave-d'Ornon":"Villenave-d'Ornon",
    "Villeneuve-d'Ascq":"Villeneuve-d'Ascq",
    "Xi'an":"Xi'an",
    'Aachen':'Aachen',
    'Aalen':'Aalen',
    'Aalst':'Aalst',
    'Aba':'Aba',
    'Abadan':'Abadan',
    'Abakaliki':'Abakaliki',
    'Abbotsford':'Abbotsford',
    'Abeokuta':'Abeokuta',
    'Aberdeen':'Aberdeen',
    'Abha':'Abha',
    'Abilene':'Abilene',
    'Abreu e Lima':'Abreu e Lima',
    'Abu Kabir':'Abu Kabir',
    'Acayucan':'Acayucan',
    'Acireale':'Acireale',
    'Acuña':'Acuña',
    'Ad Diwaniyah':'Ad Diwaniyah',
    'Ad Diwem':'Ad Diwem',
    'Adana':'Adana',
    'Adelaide':'Adelaide',
    'Adiyaman':'Adiyaman',
    'Aew?l-li':'Ansan',
    'Afragola':'Afragola',
    'Afyon':'Afyon',
    'Agde':'Agde',
    'Agen':'Agen',
    'Agra':'Agra',
    'Agrigento':'Agrigento',
    'Águas Lindas de Goiás':'Águas Lindas de Goiás',
    'Ahvaz':'Ahvaz',
    'Ain Oussera':'Ain Oussera',
    'Aix-en-Provence':'Aix-en-Provence',
    'Ajaccio':'Ajaccio',
    'Ajmer':'Ajmer',
    'Akhisar':'Akhisar',
```

```
'Akron':'Akron',
'Aksu':'Aksu',
'Al Amarah':'Al Amarah',
'Al Hillah':'Al Hillah',
'Al Khums':'Al Khums',
'Al Mahallah al Kubra':'Al Mahallah al Kubra',
'Al Manaqil':'Al Manaqil',
'Al Mubarraz':'Al Mubarraz',
'Al Muharraq':'Al Muharraq',
'Alanya':'Alanya',
'Albany':'Albany',
'Albi':'Albi',
'Albuquerque':'Albuquerque',
'Albury':'Albury',
'Alessandria':'Alessandria',
'Alexandria':'Alexandria',
'Algiers':'Algiers',
'Alicante':'Alicante',
'Alice Springs':'Alice Springs',
'Aligarh':'Aligarh',
'Aligudarz':'Aligudarz',
'Allentown':'Allentown',
'Almaty':'Almaty',
'Almelo':'Almelo',
'Alphen aan den Rijn':'Alphen aan den Rijn',
'Altamira':'Altamira',
'Altamura':'Altamura',
'Amadora':'Amadora',
'Amagasaki':'Amagasaki',
'Amarillo':'Amarillo',
'Amasya':'Amasya',
'Amatitlán':'Amatitlán',
'Americana':'Americana',
'Amersfoort':'Amersfoort',
'Amiens':'Amiens',
'Amman':'Amman',
'Amol':'Amol',
'Amravati':'Amravati',
'Amsterdam':'Amsterdam',
'Anantapur':'Anantapur',
'Anápolis':'Anápolis',
'Ancona':'Ancona',
'Andijon':'Andijon',
'Andover':'Andover',
'Andria':'Andria',
'Angers':'Angers',
'Anglet':'Anglet',
'Anjo':'Anjo',
'Ankara':'Ankara',
'Ann Arbor':'Ann Arbor',
'Annecy':'Annecy',
'Annemasse':'Annemasse',
'Annonay':'Annonay',
'Anqing':'Anqing',
'Anshan':'Anshan',
'Anshun':'Anshun',
'Antakya':'Antakya',
'Antibes':'Antibes',
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'Shuangcheng':'Shuangcheng',
'Shuangyashan':'Shuangyashan',
'Shulan':'Shulan',
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'Shumen':'Shumen',
'Shushtar':'Shushtar',
'Sialkot':'Sialkot',
'Sibiu':'Sibiu',
'Sidi Bel Abbes':'Sidi Bel Abbes',
'Sidi Qacem':'Sidi Qacem',
'Siedlce':'Siedlce',
'Siegen':'Siegen',
'Siena':'Siena',
'Siirt':'Siirt',
'Sikasso':'Sikasso',
'Silao':'Silao',
'Silopi':'Silopi',
'Simões Filho':'Simões Filho',
'Sincan':'Sincan',
'Singapur':'Singapore',
'Sinop':'Sinop',
'Sioux Falls':'Sioux Falls',
'Siping':'Siping',
'Sittard':'Sittard',
'Six-Fours-les-Plages':'Six-Fours-les-Plages',
'Skikda':'Skikda',
'Sliven':'Sliven',
'Slough':'Slough',
'Slupsk':'Slupsk',
'Soacha':'Soacha',
'Sofia':'Sofia',
'Sogamoso':'Sogamoso',
'Sohag':'Sohag',
'Soissons':'Soissons',
'Sokoto':'Sokoto',
'Solapur':'Solapur',
'Soledad':'Soledad',
'Solingen':'Solingen',
'Solna':'Solna',
'Soma':'Soma',
'Sonderborg':'Sønderborg',
'Sonipat':'Sonipat',
'Sonneberg':'Sonneberg',
'Sorgues':'Sorgues',
'Sorocaba':'Sorocaba',
'Sosnowiec':'Sosnowiec',
'Sousa':'Sousa',
'South Shields':'South Shields',
'Southampton':'Southampton',
'Southend-on-Sea':'Southend-on-Sea',
'Southport':'Southport',
'Soweto':'Soweto',
'Soyapango':'Soyapango',
'Spanish Town':'Spanish Town',
'Spokane':'Spokane',
'Springfield':'Springfield',
'Springs':'Springs',
'Srinagar':'Srinagar',
'St. Catharines':'St. Catharines',
'Stadtlohn':'Stadtlohn',
'Stafford':'Stafford',
'Stains':'Stains',
'Stanger':'Stanger',
'Stara Zagora':'Stara Zagora',
'Stellenbosch':'Stellenbosch',
'Sterling Heights':'Sterling Heights',
'Stockport':'Stockport',
'Stockton-on-Tees':'Stockton-on-Tees',
'Stoke-on-Trent':'Stoke-on-Trent',
'Stolberg':'Stolberg',
'Stourbridge':'Stourbridge',
'Strasbourg':'Strasbourg',
'Stuttgart':'Stuttgart',
'Suceava':'Suceava',
'Sucre':'Sucre',
'Suihua':'Suihua',
'Suining':'Suining',
'Suizhou':'Suizhou',
'Sukabumi':'Sukabumi',
'Sukkur':'Sukkur',
'Sumaré':'Sumaré',
'Summerville':'Summerville',
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            'Sumy':'Sumy',
            'Sunbury':'Sunbury',
            'Sunnyvale':'Sunnyvale',
            'Superior':'Superior',
            'Surakarta':'Surakarta',
            'Surat':'Surat',
            'Suresnes':'Suresnes',
            'Surrey':'Surrey',
            'Suwon':'Suwon',
            'Suzhou':'Suzhou',
            'Swindon':'Swindon',
            'Sydney':'Sydney',
            'Sylhet':'Sylhet',
            'Tabora':'Tabora',
            'Tabuk':'Tabuk',
            'Tahta':'Tahta',
            'Taiping':'Taiping',
            'Taixing':'Taixing',
            'Taizhou':'Taizhou',
            'Taizz':'Taizz',
            'Takamatsu':'Takamatsu',
            'Takasaki':'Takasaki',
            'Takestan':'Takestan',
            'Talara':'Talara',
            'Talavera de la Reina':'Talavera de la Reina',
            'Taldyqorghan':'Taldyqorghan',
            'Talence':'Talence',
            'Tallaght':'Tallaght',
            'Tallahassee':'Tallahassee',
            'Tallinn':'Tallinn',
            'Tamale':'Tamale',
            'Tamarac':'Tamarac',
            'Tampa':'Tampa',
            'Tampico':'Tampico',
            'Tanga':'Tanga',
            'Tangerang':'Tangerang',
            'Tanggu':'Tanggu',
            'Tangier':'Tangier',
            'Tangshan':'Tangshan',
            'Taraz':'Taraz',
            'Tarbes':'Tarbes',
            'Targu Mures':'Targu Mures',
            'Tarsus':'Tarsus',
            'Tartu':'Tartu',
            'Tasikmalaya':'Tasikmalaya',
            'Taubaté':'Taubaté',
            'Taunton':'Taunton',
            'Taupo':'Taupo',
            'Tauranga':'Tauranga',
            'Tawau':'Tawau',
            'Taylor':'Taylor',
            'Taytay':'Taytay',
            'Taza':'Taza',
            'Tecomán':'Tecomán',
            'Tegal':'Tegal',
            'Tegucigalpa':'Tegucigalpa',
            'Tehuacán':'Tehuacán',
            'Tel Aviv':'Tel Aviv',
            'Temecula':'Temecula',
            'Temixco':'Temixco',
            'Tempe':'Tempe',
            'Tepic':'Tepic',
            'Teramo':'Teramo',
            'Teresina':'Teresina',
            'Termez':'Termez',
            'Terneuzen':'Terneuzen',
            'Tete':'Tete',
            'Tetouan':'Tetouan',
            'Texarkana':'Texarkana',
            'Texas City':'Texas City',
            'Teziutlán':'Teziutlán',
            'Thane':'Thane',
            'Thanjavur':'Thanjavur',
            'The Hague':'The Hague',
            'Thiais':'Thiais',
            'Thies Nones':'Thies Nones',
            'Thika':'Thika',
            'Thionville':'Thionville',
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'Thiruvananthapuram':'Thiruvananthapuram',
'Thomasville':'Thomasville',
'Thonon-les-Bains':'Thonon-les-Bains',
'Thousand Oaks':'Thousand Oaks',
'Tianguá':'Tianguá',
'Tieling':'Tieling',
'Tiflis':'Tbilisi',
'Tijuana':'Tijuana',
'Tilburg':'Tilburg',
'Timaru':'Timaru',
'Timisoara':'Timisoara',
'Tinaquillo':'Tinaquillo',
'Tinley Park':'Tinley Park',
'Tipitapa':'Tipitapa',
'Tiruchchirappalli':'Tiruchchirappalli',
'Tirunelveli':'Tirunelveli',
'Tiruppur':'Tiruppur',
'Tlalnepantla':'Tlalnepantla',
'Tlalpan':'Tlalpan',
'Tlaquepaque':'Tlaquepaque',
'Tlemcen':'Tlemcen',
'Toamasina':'Toamasina',
'Tokat':'Tokat',
'Tokio':'Tokyo',
'Toledo':'Toledo',
'Tongchuan':'Tongchuan',
'Tongi':'Tongi',
'Tongliao':'Tongliao',
'Tongling':'Tongling',
'Tongzhou':'Tongzhou',
'Toowoomba':'Toowoomba',
'Torbat-e Heydariyeh':'Torbat-e Heydariyeh',
'Torcy':'Torcy',
'Toronto':'Toronto',
'Torremolinos':'Torremolinos',
'Torreón':'Torreón',
'Tottori':'Tottori',
'Toulon':'Toulon',
'Toulouse':'Toulouse',
'Tourcoing':'Tourcoing',
'Tournai':'Tournai',
'Tournefeuille':'Tournefeuille',
'Tours':'Tours',
'Townsville':'Townsville',
'Trani':'Trani',
'Trapani':'Trapani',
'Trappes':'Trappes',
'Traralgon':'Traralgon',
'Trento':'Trento',
'Trenton':'Trenton',
'Trier':'Trier',
'Trieste':'Trieste',
'Tripoli':'Tripoli',
'Troisdorf':'Troisdorf',
'Troy':'Troy',
'Trujillo':'Trujillo',
'Tsukuba':'Tsukuba',
'Tucson':'Tucson',
'Tulancingo':'Tulancingo',
'Tulle':'Tulle',
'Tulsa':'Tulsa',
'Tumkur':'Tumkur',
'Túnez':'Tunis',
'Tupã':'Tupã',
'Turgutlu':'Turgutlu',
'Turin':'Turin',
'Turkmenabat':'Turkmenabat',
'Turku':'Turku',
'Turmero':'Turmero',
'Tuxtla Gutiérrez':'Tuxtla Gutiérrez',
'Tuzla':'Tuzla',
'Twin Falls':'Twin Falls',
'Tychy':'Tychy',
'Ube':'Ube',
'Uberaba':'Uberaba',
'Uberlândia':'Uberlândia',
'Udaipur':'Udaipur',
'Ueda':'Ueda',
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'Ufa':'Ufa',
'Uithoorn':'Uithoorn',
'Ujjain':'Ujjain',
'Ulan Bator':'Ulan Bator',
'Ulhasnagar':'Ulhasnagar',
'Ulsan':'Ulsan',
'Ulundi':'Ulundi',
'Uman':'Uman',
'Umtata':'Umtata',
'Umuarama':'Umuarama',
'Unna':'Unna',
'Upper Hutt':'Upper Hutt',
'Upplands Väsby':'Upplands Väsby',
'Upsala':'Upsala',
'Uruguaiana':'Uruguaiana',
'Usak':'Usak',
'Uskudar':'Uskudar',
'Ústí nad Labem':'Ústí nad Labem',
'Utica':'Utica',
'Utrecht':'Utrecht',
'Uvarovo':'Uvarovo',
'Uvinza':'Uvinza',
'Vacaria':'Vacaria',
'Vadodara':'Vadodara',
'Valdemoro':'Valdemoro',
'Valence':'Valence',
'Valencia':'Valencia',
'Valenciennes':'Valenciennes',
'Valinhos':'Valinhos',
'Valladolid':'Valladolid',
'Valle de La Pascua':'Valle de La Pascua',
'Valle Hermoso':'Valle Hermoso',
'Valledupar':'Valledupar',
'Vallejo':'Vallejo',
'Valles':'Valles',
'Valparaíso':'Valparaíso',
'Valparaíso de Goiás':'Valparaíso de Goiás',
'Van':'Van',
'Vancouver':'Vancouver',
'Vanderbijlpark':'Vanderbijlpark',
'Vannes':'Vannes',
'Varamin':'Varamin',
'Varese':'Varese',
'Varna':'Varna',
'Várzea Grande':'Várzea Grande',
'Vassouras':'Vassouras',
'Vaughan':'Vaughan',
'Vaulx-en-Velin':'Vaulx-en-Velin',
'Veenendaal':'Veenendaal',
'Velbert':'Velbert',
'Velletri':'Velletri',
'Velsen':'Velsen',
'Vence':'Vence',
'Venice':'Venice',
'Venlo':'Venlo',
'Veracruz':'Veracruz',
'Verdun':'Verdun',
'Vernon':'Vernon',
'Verona':'Verona',
'Verviers':'Verviers',
'Vesoul':'Vesoul',
'Vespasiano':'Vespasiano',
'Victoria':'Victoria',
'Viersen':'Viersen',
'Vigevano':'Vigevano',
'Vignola':'Vignola',
'Vigo':'Vigo',
'Vijayawada':'Vijayawada',
'Vilhena':'Vilhena',
'Villa Canales':'Villa Canales',
'Villa Frontera':'Villa Frontera',
'Villa Nueva':'Villa Nueva',
'Villach':'Villach',
'Villahermosa':'Villahermosa',
'Villefontaine':'Villefontaine',
'Villejuif':'Villejuif',
'Villemomble':'Villemomble',
'Villeneuve-la-Garenne':'Villeneuve-la-Garenne',
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'Villeneuve-le-Roi':'Villeneuve-le-Roi',
'Villeneuve-Saint-Georges':'Villeneuve-Saint-Georges',
'Villeneuve-sur-Lot':'Villeneuve-sur-Lot',
'Villeurbanne':'Villeurbanne',
'Villiers-le-Bel':'Villiers-le-Bel',
'Villiers-sur-Marne':'Villiers-sur-Marne',
'Villingen-Schwenningen':'Villingen-Schwenningen',
'Viña del Mar':'Viña del Mar',
'Vincennes':'Vincennes',
'Vínnytsia':'Vínnytsia',
'Viransehir':'Viransehir',
'Viroflay':'Viroflay',
'Viterbo':'Viterbo',
'Vitoria':'Vitoria',
'Vitória':'Vitória',
'Vitória da Conquista':'Vitória da Conquista',
'Vitória de Santo Antão':'Vitória de Santo Antão',
'Vitrolles':'Vitrolles',
'Vittoria':'Vittoria',
'Vlaardingen':'Vlaardingen',
'Vladímir':'Vladimir',
'Vlore':'Vlore',
'Voiron':'Voiron',
'Volksrust':'Volksrust',
'Vorónezh':'Voronezh',
'Votuporanga':'Votuporanga',
'Vryburg':'Vryburg',
'Waco':'Waco',
'Wad Madani':'Wad Madani',
'Wadi as Sir':'Wadi as Sir',
'Wafangdian':'Wafangdian',
'Wagga Wagga':'Wagga Wagga',
'Waiblingen':'Waiblingen',
'Waitakere':'Waitakere',
'Wakefield':'Wakefield',
'Warri':'Warri',
'Warrnambool':'Warrnambool',
'Warsaw':'Warsaw',
'Warwick':'Warwick',
'Wasquehal':'Wasquehal',
'Waterbury':'Waterbury',
'Waterloo':'Waterloo',
'Waterlooville':'Waterlooville',
'Watertown':'Watertown',
'Wattrelos':'Wattrelos',
'Waynesboro':'Waynesboro',
'Weifang':'Weifang',
'Weihai':'Weihai',
'Weimar':'Weimar',
'Wellington':'Wellington',
'Wels':'Wels',
'Wendeng':'Wendeng',
'Wenling':'Wenling',
'Wenzhou':'Wenzhou',
'West Allis':'West Allis',
'West Bromwich':'West Bromwich',
'West Palm Beach':'West Palm Beach',
'Westfield':'Westfield',
'Westland':'Westland',
'Westminster':'Westminster',
'Westonaria':'Westonaria',
'Wetter (Ruhr)':'Wetter (Ruhr)',
'Wetzlar':'Wetzlar',
'Whakatane':'Whakatane',
'Whangarei':'Whangarei',
'Wheeling':'Wheeling',
'Whitby':'Whitby',
'Whyalla':'Whyalla',
'Wichita':'Wichita',
'Widnes':'Widnes',
'Wilhelmshaven':'Wilhelmshaven',
'Wilmington':'Wilmington',
'Windsor':'Windsor',
'Winnipeg':'Winnipeg',
'Winterthur':'Winterthur',
'Wodonga':'Wodonga',
'Woking':'Woking',
'Wolfsburg':'Wolfsburg',
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                'Wollongong':'Wollongong',
                'Woodland':'Woodland',
                'Woodstock':'Woodstock',
                'Woonsocket':'Woonsocket',
                'Worms':'Worms',
                'Worthing':'Worthing',
                'Wuchang':'Wuchang',
                'Wuchuan':'Wuchuan',
                'Wuhai':'Wuhai',
                'Wuhan':'Wuhan',
                'Wuppertal':'Wuppertal',
                'Wuxi':'Wuxi',
                'Wuzhou':'Wuzhou',
                'Xiamen':'Xiamen',
                'Xiangtan':'Xiangtan',
                'Xianning':'Xianning',
                'Xiantao':'Xiantao',
                'Xianyang':'Xianyang',
                'Xiaogan':'Xiaogan',
                'Xichang':'Xichang',
                'Xingtai':'Xingtai',
                'Xining':'Xining',
                'Xintai':'Xintai',
                'Xinxiang':'Xinxiang',
                'Xinyi':'Xinyi',
                'Xinzhou':'Xinzhou',
                'Xuzhou':'Xuzhou',
                'Yacuiba':'Yacuiba',
                'Yakarta':'Jakarta',
                'Yalova':'Yalova',
                'Yambol':'Yambol',
                'Yamoussoukro':'Yamoussoukro',
                'Yancheng':'Yancheng',
                'Yangjiang':'Yangjiang',
                'Yangzhou':'Yangzhou',
                'Yanji':'Yanji',
                'Yantai':'Yantai',
                'Yaritagua':'Yaritagua',
                'Yaroslavl':'Yaroslavl',
                'Yerres':'Yerres',
                'Yibin':'Yibin',
                'Yibuti':'Djibouti',
                'Yicheng':'Yicheng',
                'Yichun':'Yichun',
                'Yiwu':'Yiwu',
                'Yogyakarta':'Yogyakarta',
                'Yonkers':'Yonkers',
                'Yuci':'Yuci',
                'Yueyang':'Yueyang',
                'Yulin':'Yulin',
                'Yuma':'Yuma',
                'Yunyang':'Yunyang',
                'Yushu':'Yushu',
                'Zabol':'Zabol',
                'Zabrze':'Zabrze',
                'Zacatecas':'Zacatecas',
                'Zahedan':'Zahedan',
                'Zamora':'Zamora',
                'Zanyán':'Zanjan',
                'Zaoyang':'Zaoyang',
                'Zaozhuang':'Zaozhuang',
                'Zaporiyia':'Zaporizhia',
                'Zeist':'Zeist',
                'Zenica':'Zenica',
                'Zhangjiakou':'Zhangjiakou',
                'Zhangzhou':'Zhangzhou',
                'Zhanjiang':'Zhanjiang',
                'Zhaoqing':'Zhaoqing',
                'Zhengzhou':'Zhengzhou',
                'Zhenjiang':'Zhenjiang',
                'Zhlobin':'Zhlobin',
                'Zhongxiang':'Zhongxiang',
                'Zhoukou':'Zhoukou',
                'Zhuhai':'Zhuhai',
                'Zhytómyr':'Zhytomyr',
                'Zielona Gora':'Zielona Gora',
                'Ziguinchor':'Ziguinchor',
                'Zilina':'Zilina',
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    'Zlatoust':'Zlatoust',
    'Zunyi':'Zunyi',
    'Zurich':'Zurich',
    'Zwedru':'Zwedru',
    'Zwickau':'Zwickau',
    'Zwolle':'Zwolle',
    'Washington':'Washington'


}
```

```
# assigning the dictionary to order city column
data["order_city"] = [order_city_es_to_en[city] if city in order_city_es_to_en else city for city in data["order_city"]]
```

Converting from Spanish into English version for order country by helping of dictionary mapping

```
# creating dictionary mapping for order_country column

order_country_es_to_en = {
    'Afganistán':'Afghanistan',
    'Albania':'Albania',
    'Alemania':'Germany',
    'Angola':'Angola',
    'Arabia Saudí':'Saudi Arabia',
    'Argelia':'Algeria',
    'Argentina':'Argentina',
    'Armenia':'Armenia',
    'Australia':'Australia',
    'Austria':'Austria',
    'Azerbaiyán':'Azerbaijan',
    'Bangladés':'Bangladesh',
    'Barbados':'Barbados',
    'Baréin':'Bahrain',
    'Bélgica':'Belgium',
    'Belice':'Belize',
    'Benín':'Benin',
    'Bielorrusia':'Belarus',
    'Bolivia':'Bolivia',
    'Bosnia y Herzegovina':'Bosnia and Herzegovina',
    'Botsuana':'Botswana',
    'Brasil':'Brazil',
    'Bulgaria':'Bulgaria',
    'Burkina Faso':'Burkina Faso',
    'Burundi':'Burundi',
    'Bután':'Bhutan',
    'Camboya':'Cambodia',
    'Camerún':'Cameroon',
    'Canada':'Canada',
    'Chad':'Chad',
    'Chile':'Chile',
    'China':'China',
    'Chipre':'Cyprus',
    'Colombia':'Colombia',
    'Corea del Sur':'South Korea',
    'Costa de Marfil':'Ivory Coast',
    'Costa Rica':'Costa Rica',
    'Croacia':'Croatia',
    'Cuba':'Cuba',
    'Dinamarca':'Denmark',
    'Ecuador':'Ecuador',
    'Egipto':'Egypt',
    'El Salvador':'El Salvador',
    'Emiratos Árabes Unidos':'United Arab Emirates',
    'Eritrea':'Eritrea',
    'Eslovaquia':'Slovakia',
    'Eslovenia':'Slovenia',
    'España':'Spain',
    'Estados Unidos':'United States',
    'Estonia':'Estonia',
    'Etiopía':'Ethiopia',
    'Filipinas':'Philippines',
    'Finlandia':'Finland',
```

```
        'Francia':'France',
        'Gabón':'Gabon',
        'Georgia':'Georgia',
        'Ghana':'Ghana',
        'Grecia':'Greece',
        'Guadalupe':'Guadeloupe',
        'Guatemala':'Guatemala',
        'Guayana Francesa':'French Guiana',
        'Guinea':'Guinea',
        'Guinea Ecuatorial':'Equatorial Guinea',
        'Guinea-Bissau':'Guinea-Bissau',
        'Guyana':'Guyana',
        'Haití':'Haiti',
        'Honduras':'Honduras',
        'Hong Kong':'Hong Kong',
        'Hungría':'Hungary',
        'India':'India',
        'Indonesia':'Indonesia',
        'Irak':'Iraq',
        'Irán':'Iran',
        'Irlanda':'Ireland',
        'Israel':'Israel',
        'Italia':'Italy',
        'Jamaica':'Jamaica',
        'Jordania':'Jordan',
        'Kazajistán':'Kazakhstan',
        'Kenia':'Kenya',
        'Kirguistán':'Kyrgyzstan',
        'Kuwait':'Kuwait',
        'Laos':'Laos',
        'Lesoto':'Lesotho',
        'Líbano':'Lebanon',
        'Liberia':'Liberia',
        'Libia':'Libya',
        'Lituania':'Lithuania',
        'Luxemburgo':'Luxembourg',
        'Macedonia':'North Macedonia',
        'Madagascar':'Madagascar',
        'Malasia':'Malaysia',
        'Mali':'Mali',
        'Marruecos':'Morocco',
        'Martinica':'Martinique',
        'Mauritania':'Mauritania',
        'México':'Mexico',
        'Moldavia':'Moldova',
        'Mongolia':'Mongolia',
        'Montenegro':'Montenegro',
        'Mozambique':'Mozambique',
        'Myanmar (Birmania)':'Myanmar (Burma)',
        'Namibia':'Namibia',
        'Nepal':'Nepal',
        'Nicaragua':'Nicaragua',
        'Níger':'Niger',
        'Nigeria':'Nigeria',
        'Noruega':'Norway',
        'Nueva Zelanda':'New Zealand',
        'Omán':'Oman',
        'Países Bajos':'Netherlands',
        'Pakistán':'Pakistan',
        'Panamá':'Panama',
        'Papúa Nueva Guinea':'Papua New Guinea',
        'Paraguay':'Paraguay',
        'Perú':'Peru',
        'Polonia':'Poland',
        'Portugal':'Portugal',
        'Qatar':'Qatar',
        'Reino Unido':'United Kingdom',
        'República Centroafricana':'Central African Republic',
        'República Checa':'Czech Republic',
        'República de Gambia':'Republic of The Gambia',
        'República del Congo':'Republic of the Congo',
        'República Democrática del Congo':'Democratic Republic of the Congo',
        'República Dominicana':'Dominican Republic',
        'Ruanda':'Rwanda',
        'Rumania':'Romania',
        'Rusia':'Russia',
        'Sáhara Occidental':'Western Sahara',
        'Senegal':'Senegal',
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```
        'Serbia':'Serbia',
        'Sierra Leona':'Sierra Leone',
        'Singapur':'Singapore',
        'Siria':'Syria',
        'Somalia':'Somalia',
        'Sri Lanka':'Sri Lanka',
        'Suazilandia':'Eswatini (formerly Swaziland)',
        'SudAfrica':'South Africa',
        'Sudán':'Sudan',
        'Sudán del Sur':'South Sudan',
        'Suecia':'Sweden',
        'Suiza':'Switzerland',
        'Surinam':'Suriname',
        'Tailandia':'Thailand',
        'Taiwán':'Taiwan',
        'Tanzania':'Tanzania',
        'Tayikistán':'Tajikistan',
        'Togo':'Togo',
        'Trinidad y Tobago':'Trinidad and Tobago',
        'Túnez':'Tunisia',
        'Turkmenistán':'Turkmenistan',
        'Turquía':'Turkey',
        'Ucrania':'Ukraine',
        'Uganda':'Uganda',
        'Uruguay':'Uruguay',
        'Uzbekistán':'Uzbekistan',
        'Venezuela':'Venezuela',
        'Vietnam':'Vietnam',
        'Yemen':'Yemen',
        'Yibuti':'Djibouti',
        'Zambia':'Zambia',
        'Zimbabue':'Zimbabwe',
        'Japón':'Japan'

}
```

assigning the dictionary into main data

```
# assigning the dictionary to order country column
data["order_country"] = [order_country_es_to_en[country] if country in order_country_es_to_en else country for country in data["order_count
```

Converting from Spanish into English version for order state by helping of dictionary mapping

```
# creating dictionary mapping for order_state column
order_state_es_to_en = {
        "Hawke's Bay":"Hawke's Bay",
        "O'Higgins":"O'Higgins",
        '\x8aiauliai':'Siauliai',
        '\x8eilina':'Silina',
        'Abia':'Abia',
        'Abruzos':'Abruzzo',
        'Aceh':'Aceh',
        'Acre':'Acre',
        'Adamaoua':'Adamaoua',
        'Adamawa':'Adamawa',
        'Adana':'Adana',
        'Adiyaman':'Adiyaman',
        'Afyonkarahisar':'Afyonkarahisar',
        'Aichi':'Aichi',
        'Ajmán':'Ajman',
        'Akmola':'Akmola',
        'Aksaray':'Aksaray',
        'Akwa Ibom':'Akwa Ibom',
        'Al Asimah':'Al Asimah',
        'Al Bahr al Ahmar':'Al Bahr al Ahmar',
        'Al Buhayrah':'Al Buhayrah',
        'Al Hudayda':'Al Hudaydah',
        'Al Jawf':'Al Jawf',
        'Al Marqab':'Al Marqab',
        'Alabama':'Alabama',
        'Alagoas':'Alagoas',
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'Alberta':'Alberta',
'Alejandría':'Alexandria',
'Alger':'Algiers',
'Alibori':'Alibori',
'Almaty':'Almaty',
'Alsacia-Champaña-Ardenas-Lorena':'Grand Est (Alsace-Champagne-Ardenne-Lorraine)',
'Alta Austria':'Upper Austria (Alta Austria)',
'Amán':'Amman',
'Amapá':'Amapá',
'Amasya':'Amasya',
'Amazonas':'Amazonas',
'Amberes':'Antwerp',
'Amur':'Amur',
'Analamanga':'Analamanga',
'Anambra':'Anambra',
'Ancash':'Ancash',
'Andalucía':'Andalusia',
'Andhra Pradesh':'Andhra Pradesh',
'Andiján':'Andijan',
'Anhui':'Anhui',
'Ankara':'Ankara',
'Annaba':'Annaba',
'Anseba':'Anseba',
'Antalya':'Antalya',
'Antioquía':'Antioquia',
'Antofagasta':'Antofagasta',
'Anzoátegui':'Anzoátegui',
'Aomori':'Aomori',
'Apulia':'Apulia (Puglia)',
'Aquitania-Lemosín-Poitou-Charentes':'Nouvelle-Aquitaine ',
'Ar Raqa':'Ar Raqqa',
'Arad':'Arad',
'Aragua':'Aragua',
'Arauca':'Arauca',
'Arbil':'Erbil (Arbil)',
'Ardahan':'Ardahan',
'Ardebil':'Ardabil',
'Arequipa':'Arequipa',
'Arges':'Arges',
'Arica y Parinacota':'Arica and Parinacota',
'Arizona':'Arizona',
'Arjánguelsk':'Arkhangelsk',
'Arkansas':'Arkansas',
'Artemisa':'Artemisa',
'Artibonito':'Artibonite',
'Arusha':'Arusha',
'Ash Sharqiyah':'Ash Sharqiyah',
'Ashanti':'Ashanti',
'Asir':'Asir',
'Asiut':'Assiut',
'Asjabad':'Ashgabat',
'Assam':'Assam',
'Astaná':'Astana',
'Astracán':'Astrakhan',
'Asturias':'Asturias',
'Asunción':'Asunción',
'Aswan':'Aswan',
'Atacama':'Atacama',
'Atakora':'Atakora',
'Atlántico':'Atlantic',
'Atlántida':'Atlántida',
'Atsimo-Andrefana':'Atsimo-Andrefana',
'Atsinanana':'Atsinanana',
'Attica':'Attica',
'Auckland':'Auckland',
'Australia del Sur':'South Australia',
'Australia Occidental':'Western Australia',
'Auvernia':'Auvergne',
'Auvernia-Ródano-Alpes':'Auvergne-Rhône-Alpes',
'Aveiro':'Aveiro',
'Ayacucho':'Ayacucho',
'Aydin':'Aydin',
'Azuay':'Azuay',
'Babilonia':'Babylon',
'Bacau':'Bacau',
'Baden-Wurtemberg':'Baden-Württemberg',
'Bagdad':'Baghdad',
'Bahía':'Bahia',
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'Baja California':'Baja California',
'Baja California Sur':'Baja California Sur',
'Baja Sajonia':'Lower Saxony',
'Bajo Congo':'Bas-Congo',
'Baki':'Baku',
'Bali':'Bali',
'Balikesir':'Balikesir',
'Balti':'Balti',
'Baluchistán':'Balochistan',
'Bamako':'Bamako',
'Bandundu':'Bandundu',
'Bangkok':'Bangkok',
'Bangui':'Bangui',
'Bani Suwayf':'Beni Suef',
'Banská Bystrica':'Banská Bystrica',
'Barahona':'Barahona',
'Bashkortostán':'Bashkortostan',
'Basilea-Ciudad':'Basel-City',
'Basilicata':'Basilicata',
'Basora':'Basra',
'Batman':'Batman',
'Batna':'Batna',
'Bauchi':'Bauchi',
'Bavaria':'Bayern',
'Bay of Plenty':'Bay of Plenty',
'Béchar':'Béchar',
'Beirut':'Beirut',
'Békés':'Békés',
'Bélgorod':'Belgorod',
'Benadir':'Benadir',
'Bengala Occidental':'West Bengal',
'Bengasi':'Benghazi',
'Bengkulu':'Bengkulu',
'Benguela':'Benguela',
'Benue':'Benue',
'Berlín':'Berlin (Berlín)',
'Berna':'Bern',
'Bié':'Bié',
'Bihar':'Bihar',
'Bihor':'Bihor',
'Bingöl':'Bingol',
'Bío-Bío':'Bío-Bío',
'Bisáu':'Bissau',
'Bishkek':'Bishkek',
'Bistrita-Nasaud':'Bistrita-Nasaud',
'Bitola':'Bitola',
'Boeny':'Boeny',
'Bogotá':'Bogotá',
'Bolívar':'Bolivar',
'Bolu':'Bolu',
'Borgoña-Franco Condado':'Borgoña-Franco Condado',
'Borgou':'Borgou',
'Borneo Meridional':'South Kalimantan',
'Borneo Occidental':'West Kalimantan',
'Borno':'Borno',
'Botosani':'Botosani',
'Boyacá':'Boyacá',
'Bra?ov':'Brasov',
'Brabante Flamenco':'Flemish Brabant',
'Brabante Septentrional':'North Brabant',
'Braga':'Braga',
'Braila':'Braila',
'Brandenburgo':'Brandenburg',
'Bremen':'Bremen',
'Brest':'Brest',
'Bretaña':'Brittany',
'Briansk':'Bryansk',
'Bruselas':'Brussels',
'Budapest':'Budapest',
'Buenos Aires':'Buenos Aires',
'Buenos Aires (provincia)':'Buenos Aires',
'Bugía':'Bejaia',
'Bulawayo':'Bulawayo',
'Burgas':'Burgas',
'Bursa':'Bursa',
'Busan':'Busan',
'Bushehr':'Bushehr',
'Buskerud':'Buskerud',
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'Buyumbura Mairie':'Bujumbura Mairie',
'Buzau':'Buzau',
'Cabo Delgado':'Cabo Delgado',
'Cabo Occidental':'Western Cape',
'Cabo Oriental':'Eastern Cape',
'Cadisia':'Cadiz',
'Cajamarca':'Cajamarca',
'Calabarzón':'Calabarzon',
'Calabria':'Calabria',
'Caldas':'Caldas',
'California':'California',
'Callao':'Callao',
'Camagüey':'Camaguey',
'Campania':'Campania',
'Campeche':'Campeche',
'Çanakkale':'Canakkale',
'Canelones':'Canelones',
'Cantabria':'Cantabria',
'Canterbury':'Canterbury',
'Capital Nacional':'National Capital Territory of Delhi',
'Caquetá':'Caqueta',
'Carabobo':'Carabobo',
'Caras-Severin':'Caraș-Severin',
'Carintia':'Carinthia',
'Carolina del Norte':'North Carolina',
'Carolina del Sur':'South Carolina',
'Casanare':'Casanare',
'Castilla y León':'Castile and León',
'Castilla-La Mancha':'Castilla-La Mancha',
'Cataluña':'Catalonia',
'Catamarca':'Catamarca',
'Ceará':'Ceará',
'Célebes Central':'Central Sulawesi',
'Célebes Septentrional':'North Sulawesi',
'Célebes Suroriental':'Southeast Sulawesi',
'Central':'Central',
'Centro':'Central Region',
'Centro-Valle de Loira':'Centre-Val de Loire',
'Cerdeña':'Sardinia',
'Cesar':'Cesar',
'Ceuta':'Ceuta',
'Chaco':'Chaco',
'Chaguanas':'Chaguanas',
'Chandigarh':'Chandigarh',
'Chauía-Uardiga':'Shaanxi',
'Cheliábinsk':'Cheliabinsk',
'Cherkasy':'Cherkasy',
'Chernihiv':'Chernihiv',
'Chhattisgarh':'Chhattisgarh',
'Chiapas':'Chiapas',
'Chiba':'Chiba',
'Chihuahua':'Chihuahua',
'Chimaltenango':'Chimaltenango',
'Chinandega':'Chinandega',
'Chiriquí':'Chiriquí',
'Chisináu':'Chisinau',
'Chittagong':'Chittagong',
'Chocó':'Chocó',
'Choluteca':'Choluteca',
'Chongqing':'Chongqing',
'Chubut':'Chubut',
'Chukha':'Chukha',
'Chungcheong del Sur':'South Chungcheong ',
'Chuquisaca':'Chuquisaca',
'Cidade De Maputo':'Maputo City',
'Ciego de Ávila':'Ciego de Ávila',
'Cienfuegos':'Cienfuegos',
'Ciudad de Almatý':'Almaty City',
'Ciudad Ho Chi Minh':'Ho Chi Minh City',
'Cluj':'Cluj',
'Coahuila':'Coahuila',
'Cochabamba':'Cochabamba',
'Coimbra':'Coimbra',
'Cojedes':'Cojedes',
'Colima':'Colima',
'Colón':'Colón',
'Colorado':'Colorado',
'Columbia británica':'British Columbia',
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            'Connecticut':'Connecticut',
            'Constantina':'Constantine',
            'Constanza':'Constanța',
            'Copperbelt':'Copperbelt',
            'Cordillera':'Cordillera',
            'Córdoba':'Córdoba',
            'Cork':'Cork',
            'Corrientes':'Corrientes',
            'Corse':'Corsica',
            'Cortés':'Cortés',
            'Corum':'Corum',
            'Costa':'Costa',
            'Cross River':'Cross River',
            'Cundinamarca':'Cundinamarca',
            'Cuscatlán':'Cuscatlán',
            'Dà Nang':'Da Nang',
            'Daca':'Dhaka',
            'Daegu':'Daegu',
            'Daejeon':'Daejeon',
            'Daguestán':'Dagestan',
            'Dakar':'Dakar',
            'Dakota del Norte':'North Dakota',
            'Dakota del Sur':'South Dakota',
            'Dar es Salaam':'Dar es Salaam',
            'Dayr az Zawr':'Deir ez-Zor',
            'Delaware':'Delaware',
            'Delhi':'Delhi',
            'Delta':'Delta',
            'Demerara-Berbice Superior':'Upper Demerara-Berbice',
            'Denizli':'Denizli',
            'Departamento Atlántico':'Atlántico Department',
            'Di Car':'Di Car',
            'Diala':'Diala',
            'Diana':'Diana',
            'Diffa':'Diffa',
            'Dinamarca Meridional':'Southern Denmark',
            'Dire Dawa':'Dire Dawa',
            'Distrito Capital':'Capital District',
            'Distrito de Cayo':'Cayo District',
            'Distrito de Columbia':'District of Columbia',
            'Distrito Federal':'Federal District',
            'Dix-Huit Montagnes':'Eighteen Mountains',
            'Diyarbakir':'Diyarbakir',
            'Djelfa':'Djelfa',
            'Dnipropetrovsk':'Dnipropetrovsk',
            'Doha':'Doha',
            'Dolj':'Dolj',
            'Donetsk':'Donetsk',
            'Donga':'Donga',
            'Drenthe':'Drenthe',
            'Duarte':'Duarte',
            'Dublín':'Dublin',
            'Dublín del Sur':'South Dublin',
            'Dukala-Abda':'Doukkala-Abda',
            'Durango':'Durango',
            'Durrës':'Durrës',
            'Düzce':'Düzce',
            'Ebonyi':'Ebonyi',
            'Ecuatoria Central':'Central Equatoria',
            'Edo':'Edo',
            'El Aaiún':'El Aaiún',
            'El Beni':'El Beni',
            'El Cairo':'Cairo',
            'Elazig':'Elazig',
            'Elbasan':'Elbasan',
            'Emilia-Romaña':'Emilia-Romagna',
            'Entre Ríos':'Entre Rios',
            'Enugu':'Enugu',
            'Équateur':'Équateur',
            'Erzurum':'Erzurum',
            'Escania':'Scania',
            'Escocia':'Scotland',
            'Escuintla':'Escuintla',
            'Eskisehir':'Eskisehir',
            'Espaillat':'Espaillat',
            'Espíritu Santo':'Espírito Santo',
            'Est':'East',
            'Estado Libre':'Free State',
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'Estambul':'Istanbul',
'Estelí':'Estelí',
'Estocolmo':'Stockholm',
'Estuaire':'Estuaire',
'Extremadura':'Extremadura',
'Extreme-Nord':'Far North',
'Fars':'Fars',
'Fayún':'Fayoum',
'Federación de Bosnia y Herzegovina':'Federation of Bosnia and Herzegovina',
'Fez-Bulmán':'Fès-Meknès',
'Finlandia del Sudoeste':'Southwest Finland',
'Flanders Occidental':'West Flanders',
'Flanders Oriental':'East Flanders',
'Florida':'Florida',
'Francisco Morazán':'Francisco Morazán',
'Französisch-Guayana':'French Guiana',
'Frisia':'Frisia',
'Friuli-Venecia Julia':'Friuli-Venezia Giulia',
'Fromager':'Fromager',
'Fujian':'Fujian',
'Fukui':'Fukui',
'Fukuoka':'Fukuoka',
'Galati':'Galati',
'Gales':'Wales',
'Galicia':'Galicia',
'Galway':'Galway',
'Gansu':'Gansu',
'Garb-Chrarda-Beni Hsen':'Gharb-Chrarda-Beni Hsen',
'Gauteng':'Gauteng',
'Gaziantep':'Gaziantep',
'Georgia':'Georgia',
'Gezira':'Gezira',
'Gharbia':'Gharbia',
'Ginebra':'Geneva',
'Gisborne':'Gisborne',
'Giurgiu':'Giurgiu',
'Gobolka Woqooyi Galbeed':'Woqooyi Galbeed',
'Goiás':'Goiás',
'Golestán':'Golestan',
'Gombe':'Gombe',
'Gómel':'Gomel',
'Gorj':'Gorj',
'Grad Zagreb':'Zagreb County',
'Gran Accra':'Greater Accra',
'Gran Casablanca':'Grand Casablanca',
'Gran Polonia':'Greater Poland',
'Gran Valle del Rift':'Great Rift Valley',
'Granada':'Granada',
'Grand Gedeh':'Grand Gedeh',
'Granma':'Granma',
'Grodno':'Grodno',
'Groningen':'Groningen',
'Guadalupe':'Guadeloupe',
'Guanacaste':'Guanacaste',
'Guanajuato':'Guanajuato',
'Guangdong':'Guangdong',
'Guangxi':'Guangxi',
'Guantánamo':'Guantánamo',
'Guárico':'Guárico',
'Guatemala':'Guatemala',
'Guayas':'Guayas',
'Güeldres':'Gelderland',
'Guelma':'Guelma',
'Guelmim-Esmara':'Guelmim-Oued Noun',
'Guerrero':'Guerrero',
'Guilán':'Gilan',
'Guizhou':'Guizhou',
'Gulu':'Gulu',
'Gunma':'Gunma',
'Guyarat':'Gujarat',
'Gy?r':'Győr',
'Gyeonggi':'Gyeonggi',
'Gyeongsangnam':'Gyeongsangnam',
'Haifa':'Haifa',
'Hainan':'Hainan',
'Hajdú-Bihar':'Hajdú-Bihar',
'Halland':'Halland',
'Hamadán':'Hamadan',
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            'Hamburgo':'Hamburg',
            'Harare':'Harare',
            'Harjumaa':'Harju County',
            'Haryana':'Haryana',
            'Hatay':'Hatay',
            'Haute-Matsiatra':'Haute-Matsiatra',
            'Haut-Sassandra':'Haut-Sassandra',
            'Hebei':'Hebei',
            'Hedmark':'Hedmark',
            'Heilongjiang':'Heilongjiang',
            'Henan':'Henan',
            'Henao':'Henao',
            'Herat':'Herat',
            'Hesse':'Hesse',
            'Hidalgo':'Hidalgo',
            'Hims':'Homs (Hims)',
            'Hiroshima':'Hiroshima',
            'Hokkaido':'Hokkaido',
            'Holanda Meridional':'South Holland',
            'Holanda Septentrional':'North Holland',
            'Holguín':'Holguín',
            'Hong Kong':'Hong Kong',
            'Hordaland':'Hordaland',
            'Hormozgán':'Hormozgan',
            'Hradec Králové':'Hradec Králové',
            'Huambo':'Huambo',
            'Hubei':'Hubei',
            'Huehuetenango':'Huehuetenango',
            'Huila':'Huila',
            'Hunan':'Hunan',
            'Hunedoara':'Hunedoara',
            'Hyogo':'Hyogo',
            'Iasi':'Iasi',
            'Ibaraki':'Ibaraki',
            'Ibb':'Ibb',
            'Ica':'Ica',
            'Idaho':'Idaho',
            'Igdir':'Igdir',
            'Ilam':'Ilam',
            'Illinois':'Illinois',
            'Imericia':'Imereti',
            'Imo':'Imo',
            'Indiana':'Indiana',
            'Inglaterra':'England',
            'Inhambane':'Inhambane',
            'Iowa':'Iowa',
            'Irbid':'Irbid',
            'Iringa':'Iringa',
            'Irkutsk':'Irkutsk',
            'Isfahán':'Isfahan',
            'Ishikawa':'Ishikawa',
            'Isla de Francia':'Île-de-France',
            'Isla de la Juventud':'Isla de la Juventud',
            'Islas Baleares':'Balearic Islands',
            'Isparta':'Isparta',
            'Ivano-Frankivsk':'Ivano-Frankivsk',
            'Ivanovo':'Ivanovo',
            'Izmir':'Izmir',
            'Jaiber Pajtunjuá':'Khyber Pakhtunkhwa',
            'Jalisco':'Jalisco',
            'Jambi':'Jambi',
            'Jammu y Cachemira':'Jammu and Kashmir',
            'Járkov':'Kharkiv',
            'Jartum':'Khartoum',
            'Java Central':'Central Java',
            'Java Occidental':'West Java',
            'Java Oriental':'East Java',
            'Jeju':'Jeju',
            'Jersón':'Kherson',
            'Jerusalén':'Jerusalem',
            'Jharkhand':'Jharkhand',
            'Jiangsu':'Jiangsu',
            'Jiangxi':'Jiangxi',
            'Jilin':'Jilin',
            'Jinja':'Jinja',
            'Jizán':'Jizan',
            'Jizzakh':'Jizzakh',
            'Jorasán del Sur':'South Khorasan',
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            'Jorasán Razaví':'Razavi Khorasan',
            'Jubbada Hoose':'Jubaland',
            'Jujuy':'Jujuy',
            'Junín':'Junin',
            'Jutlandia Central':'Central Jutland',
            'Juzestán':'Khuzestan',
            'Kabardia-Balkaria':'Kabardino-Balkaria',
            'Kabarole':'Kabarole',
            'Kabul':'Kabul',
            'Kaduna':'Kaduna',
            'Kafr el Sheij':'Kafr el Sheikh',
            'Kagawa':'Kagawa',
            'Kahramanmara?':'Kahramanmaraş',
            'Kalimantan Oriental':'East Kalimantan',
            'Kaliningrado':'Kaliningrad',
            'Kaluga':'Kaluga',
            'Kampala':'Kampala',
            'Kanagawa':'Kanagawa',
            'Kandahar':'Kandahar',
            'Kankan':'Kankan',
            'Kano':'Kano',
            'Kansas':'Kansas',
            'Kara':'Kara',
            'Karagandá':'Karaganda',
            'Karaman':'Karaman',
            'Karbala':'Karbala',
            'Karnataka':'Karnataka',
            'Kars':'Kars',
            'Kasai Occidental':'Kasai-Occidental',
            'Kasai Oriental':'Kasai-Oriental',
            'Kasala':'Kasala',
            'Kashkadar':'Kashkadarya',
            'Kastamonu':'Kastamonu',
            'Katanga':'Katanga',
            'Katsina':'Katsina',
            'Kaunas':'Kaunas',
            'Kayes':'Kayes',
            'Kayseri':'Kayseri',
            'Kentucky':'Kentucky',
            'Kerala':'Kerala',
            'Kerman':'Kerman',
            'Kermanshah':'Kermanshah',
            'Khánh Hòa':'Khanh Hoa',
            'Khatlon':'Khatlon',
            'Khmelnytskyi':'Khmelnytskyi',
            'Khomas':'Khomas',
            'Khorezm':'Khorezm',
            'Khulna':'Khulna',
            'Kiên Giang':'Kiên Giang',
            'Kigali':'Kigali',
            'Kigoma':'Kigoma',
            'Kilimanjaro':'Kilimanjaro',
            'Kilis':'Kilis',
            'Kindia':'Kindia',
            'Kinshasa':'Kinshasa',
            'Kirovohrad':'Kirovohrad',
            'Kirsehir':'Kırşehir',
            'Kivu del Sur':'South Kivu',
            'Klaip?da':'Klaipėda',
            'Kocaeli':'Kocaeli',
            'Konya':'Konya',
            'Korçë':'Korçë',
            'Kostanái':'Kostanay',
            'Kuala Lumpur':'Kuala Lumpur',
            'Kumanovo':'Kumanovo',
            'Kurdistán':'Kurdistan',
            'Kütahya':'Kütahya',
            'Kwara':'Kwara',
            'KwaZulu-Natal':'KwaZulu-Natal',
            'Kymenlaakso':'Kymenlaakso',
            'La Libertad':'La Libertad',
            'La Pampa':'La Pampa',
            'La Paz':'La Paz',
            'La Rioja':'La Rioja',
            'La Romana':'La Romana',
            'La Vega':'La Vega',
            'Lacio':'Lazio',
            'Lacs':'Lacs',
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    'Laghouat':'Laghouat',
    'Lagos':'Lagos',
    'Lagunes':'Lagunes',
    'Lambayeque':'Lambayeque',
    'Languedoc-Rosellón-Mediodía-Pirineos':'Occitanie',
    'Lara':'Lara',
    'Las Tunas':'Las Tunas',
    'Lebap':'Lebap',
    'León':'León',
    'Liaoning':'Liaoning',
    'Líbano del Norte':'North Lebanon',
    'Liberec':'Liberec',
    'Lieja':'Liège',
    'Liguria':'Liguria',
    'Lima':'Lima',
    'Lima (ciudad)':'Lima (city)',
    'Limburgo':'Limburg',
    'Limpopo':'Limpopo',
    'Lisboa':'Lisbon',
    'Litoral':'Littoral',
    'Littoral':'Littoral Region',
    'Liubliana':'Liubliana',
    'Lodz':'Lodz',
    'Lombardía':'Lombardy',
    'Lorestan':'Lorestan',
    'Loreto':'Loreto',
    'Lori':'Lori',
    'Los Lagos':'Los Lagos',
    'Los Ríos':'Los Ríos',
    'Luanda':'Luanda',
    'Lublin':'Lublin',
    'Lucerna':'Lucerne',
    'Lugansk':'Luhansk',
    'Luisiana':'Louisiana',
    'Lusaka':'Lusaka',
    'Luxemburgo':'Luxembourg',
    'Luzón Central':'Central Luzon',
    'Lviv':'Lviv',
    'Madhya Pradesh':'Madhya Pradesh',
    'Madrid':'Madrid',
    'Magallanes y Antártica Chilena':'Magallanes and Chilean Antarctica',
    'Magdalena':'Magdalena',
    'Maharashtra':'Maharashtra',
    'Maine':'Maine',
    'Malanje':'Malanje',
    'Malatya':'Malatya',
    'Maluku':'Maluku',
    'Manabí':'Manabí',
    'Managua':'Managua',
    'Manawatu-Wanganui':'Manawatu-Wanganui',
    'Mandoul':'Mandoul',
    'Manica':'Manica',
    'Manicalandia':'Manicaland',
    'Maniema':'Maniema',
    'Manipur':'Manipur',
    'Manisa':'Manisa',
    'Manitoba':'Manitoba',
    'Manzini':'Manzini',
    'Maputo':'Maputo',
    'Mar Rojo':'Red Sea (Mar Rojo)',
    'Mara':'Mara',
    'Maradi':'Maradi',
    'Maramures':'Maramures',
    'Marañón':'Marañón',
    'Marche':'Marche',
    'Mardin':'Mardin',
    'Marítima':'Maritza',
    'Markazí':'Markazi',
    'Marlborough':'Marlborough',
    'Marrakech-Tensift-Al Hauz':'Marrakech-Tensift-Al Haouz',
    'Martinica':'Martinique',
    'Mary':'Mary',
    'Maryland':'Maryland',
    'Masaya':'Masaya',
    'Mascate':'Muscat',
    'Maseru':'Maseru',
    'Mashonalandia Occidental':'Mashonaland West',
    'Massachusetts':'Massachusetts',
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        'Matagalpa':'Matagalpa',
        'Matanzas':'Matanzas',
        'Mato Grosso':'Mato Grosso',
        'Mato Grosso del Sur':'Mato Grosso do Sul',
        'Matruh':'Matrouh',
        'Mayabeque':'Mayabeque',
        'Mazandarán':'Mazandaran',
        'Mazovia':'Mazovia',
        'Mbeya':'Mbeya',
        'Meca':'Mecca',
        'Mecklemburgo-Pomerania Occidental':'Mecklenburg-Vorpommern',
        'Medina':'Medina',
        'Mehedinti':'Mehedinti',
        'Melilla':'Melilla',
        'Mendoza':'Mendoza',
        'Menia':'Minya',
        'Mequinez-Tafilalet':'Meknes-Tafilalet',
        'Mérida':'Mérida',
        'Meridional':'Meridional',
        'Mersin':'Mersin',
        'Mesena':'Mesa',
        'Meta':'Meta',
        'México':'Mexico',
        'Michigan':'Michigan',
        'Michoacán':'Michoacán',
        'Mie':'Mie',
        'Minas Gerais':'Minas Gerais',
        'Mindanao Septentrional':'Northern Mindanao',
        'Minnesota':'Minnesota',
        'Miranda':'Miranda',
        'Misiones':'Misiones',
        'Misisipi':'Mississippi',
        'Misurata':'Misrata',
        'Misuri':'Missouri',
        'Monagas':'Monagas',
        'Mongolia Interior':'Inner Mongolia',
        'Mono':'Mono',
        'Monseñor Nouel':'Monseñor Nouel',
        'Montana':'Montana',
        'Montevideo':'Montevideo',
        'Montserrado':'Montserrado',
        'Mopti':'Mopti',
        'Moquegua':'Moquegua',
        'Moravia-Silesia':'Moravia-Silesia',
        'Morelos':'Morelos',
        'Morogoro':'Morogoro',
        'Moscú':'Moscow',
        'Mostaganem':'Mostaganem',
        'Mpumalanga':'Mpumalanga',
        'Mtwara':'Mtwara',
        'Muharraq':'Muharraq',
        'Murcia':'Murcia',
        'Mures':'Mures',
        'Mwanza':'Mwanza',
        'Mykolayiv':'Mykolaiv',
        'Nagano':'Nagano',
        'Nagasaki':'Nagasaki',
        'Nairobi':'Nairobi',
        'Nakhon Ratchasima':'Nakhon Ratchasima',
        'Namangán':'Namangan',
        'Namibe':'Namibe',
        'Nampula':'Nampula',
        'Namur':'Namur',
        'Nangarhar':'Nangarhar',
        'Nariño':'Nariño',
        'Navarra':'Navarre',
        'Nayarit':'Nayarit',
        'Neamt':'Neamţ',
        'Nebraska':'Nebraska',
        'Negeri Sembilan':'Negeri Sembilan',
        'Nelson':'Nelson',
        'Neuquén':'Neuquén',
        'Nevada':'Nevada',
        'Nevsehir':'Nevşehir',
        'Niamey':'Niamey',
        'Niari':'Niari',
        'Niassa':'Niassa',
        'Nicosia':'Nicosia',
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'Nigde':'Nigde',
'Níger':'Niger',
'Nilo Blanco':'White Nile',
'Ningxia Hui':'Ningxia Hui',
'Nínive':'Nineveh',
'Nitra':'Nitra',
'Nom Pen':'Phnom Penh',
'Nord':'Nord',
'Nord-Ouest':'Nord-Ouest',
'Normandía':'Normandy',
'Noroeste':'Northwest',
'Norte de Santander':'Norte de Santander',
'Norte-Paso de Calais-Picardía':'Nord-Pas-de-Calais-Picardie',
'Northland':'Northland',
'Nouakchott':'Nouakchott',
'Nóvgorod':'Novgorod',
'Nueva Escocia':'Nova Scotia',
'Nueva Esparta':'Nueva Esparta',
'Nueva Gales del Sur':'New South Wales',
'Nueva Jersey':'New Jersey',
'Nueva York':'New York',
'Nuevo Hampshire':'New Hampshire',
'Nuevo León':'Nuevo León',
'Nuevo México':'New Mexico',
'Nusa Tenggara Oriental':'East Nusa Tenggara',
'Nusatenggara Occidental':'West Nusa Tenggara',
'Nyanza':'Nyanza',
'Nzérékoré':'Nzérékoré',
'Oaxaca':'Oaxaca',
'Occidental':'Occidental',
'Odisha':'Odisha',
'Ogun':'Ogun',
'Ohio':'Ohio',
'Oita':'Oita',
'Okayama':'Okayama',
'Oklahoma':'Oklahoma',
'Olomouc':'Olomouc',
'Ondo':'Ondo',
'Ontario':'Ontario',
'Opole':'Opole',
'Orán':'Oran',
'Ordu':'Ordu',
'Oregón':'Oregon',
'Oriental':'Oriental',
'Oruro':'Oruro',
'Osaka':'Osaka',
'Osh':'Osh',
'Osjecko-Baranjska':'Osječko-Baranjska',
'Oslo':'Oslo',
'Osmaniye':'Osmaniye',
'Osun':'Osun',
'Otago':'Otago',
'Ouémé':'Ouémé',
'Ouest':'Ouest',
'Ouest del Sur':'Southern Ouest',
'Overijssel':'Overijssel',
'Oyo':'Oyo',
'Pahang':'Pahang',
'País Vasco':'Basque Country',
'Países del Loira':'Pays de la Loire',
'Panamá':'Panama',
'Panevezys':'Panevezys',
'Papua':'Papua',
'Pará':'Pará',
'Paraíba':'Paraíba',
'Paramaribo':'Paramaribo',
'Paraná':'Paraná',
'Pavlodar':'Pavlodar',
'Paysandú':'Paysandú',
'Pazardzhik':'Pazardzhik',
'Pekín':'Beijing',
'Pensilvania':'Pennsylvania',
'Perak':'Perak',
'Peravia':'Peravia',
'Pernambuco':'Pernambuco',
'Pernik':'Pernik',
'Piamonte':'Piedmont',
'Piauí':'Piauí',
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        'Pichincha':'Pichincha',
        'Pilsen':'Pilsen',
        'Pinar del Río':'Pinar del Río',
        'Piura':'Piura',
        'Plateau':'Plateau',
        'Plateaux':'Plateaux',
        'Plovdiv':'Plovdiv',
        'Podgorica':'Podgorica',
        'Podlaquia':'Podlachia',
        'Polonia Menor':'Lesser Poland',
        'Poltava':'Poltava',
        'Pomerania':'Pomerania',
        'Porto':'Porto',
        'Portuguesa':'Portuguesa',
        'Potosí':'Potosí',
        'Praga':'Prague',
        'Prahova':'Prahova',
        'Prefectura de Vientián':'Vientiane Prefecture',
        'Primorje-Gorski Kotar':'Primorje-Gorski Kotar',
        'Provenza-Alpes-Costa Azul':"Provence-Alpes-Côte d'Azur",
        'Provincia Oriental':'Eastern Province',
        'Puducherry':'Puducherry',
        'Puebla':'Puebla',
        'Puerto Saíd':'Port Said',
        'Puno':'Puno',
        'Punyab':'Punjab',
        'Pwani':'Pwani',
        'Qazvín':'Qazvin',
        'Qina':'Qena',
        'Qinghai':'Qinghai',
        'Qom':'Qom',
        'Quebec':'Quebec',
        'Queensland':'Queensland',
        'Querétaro':'Querétaro',
        'Quezaltenango':'Quetzaltenango',
        'Quindío':'Quindío',
        'Quintana Roo':'Quintana Roo',
        'Rabat-Salé-Zemur-Zaer':'Rabat-Salé-Zemmour-Zaer',
        'Rajastán':'Rajasthan',
        'Rajshahi':'Rajshahi',
        'Rangún':'Yangon',
        'Ras al-Jaima':'Ras Al Khaimah',
        'Región Capital':'Capital Region',
        'Renania del Norte-Westfalia':'North Rhine-Westphalia',
        'Renania-Palatinado':'Rhineland-Palatinate',
        'Rhode Island':'Rhode Island',
        'Riad':'Riyadh',
        'Riau':'Riau',
        'Río de Janeiro':'Rio de Janeiro',
        'Río Grande del Norte':'Rio Grande do Norte',
        'Rio Grande do Sul':'Rio Grande do Sul',
        'Río Negro':'Río Negro',
        'Ríos':'Ríos',
        'Risaralda':'Risaralda',
        'Rivera':'Rivera',
        'Rivne':'Rivne',
        'Rize':'Rize',
        'Rogaland':'Rogaland',
        'Rondônia':'Rondônia',
        'Roraima':'Roraima',
        'Ruvuma':'Ruvuma',
        'Sabah':'Sabah',
        'Saga':'Saga',
        'Saida':'Saida',
        'Saint-Louis':'Saint-Louis',
        'Saitama':'Saitama',
        'Sajonia':'Saxony',
        'Sajonia-Anhalt':'Saxony-Anhalt',
        'Saladino':'Saladin',
        'Salta':'Salta',
        'Salzburgo':'Salzburg',
        'Samsun':'Samsun',
        'San Cristóbal':'San Cristóbal',
        'San Fernando':'San Fernando',
        'San Galo':'St. Gallen',
        'San Juan':'San Juan',
        'San Luis':'San Luis',
        'San Luis Potosí':'San Luis Potosí',
```

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        'San Miguel':'San Miguel',
        'San Pedro de Macorís':'San Pedro de Macorís',
        'San Salvador':'San Salvador',
        'Sancti Spíritus':'Sancti Spíritus',
        'Sanliurfa':'Sanliurfa',
        'Santa Ana':'Santa Ana',
        'Santa Catarina':'Santa Catarina',
        'Santa Caterina':'Santa Caterina',
        'Santa Cruz':'Santa Cruz',
        'Santa Fe':'Santa Fe',
        'Santander':'Santander',
        'Santiago de Chile':'Santiago de Chile',
        'Santiago de Cuba':'Santiago de Cuba',
        'Santiago del Estero':'Santiago del Estero',
        'Santo Domingo':'Santo Domingo',
        'São Paulo':'São Paulo',
        'Sarawak':'Sarawak',
        'Sarre':'Saarland',
        'Saskatchewan':'Saskatchewan',
        'Satu Mare':'Satu Mare',
        'Savanes':'Savanes',
        'Schleswig-Holstein':'Schleswig-Holstein',
        'Selandia':'Zealand',
        'Selangor':'Selangor',
        'Semnán':'Semnan',
        'Septentrional':'Northern',
        'Serbia Central':'Central Serbia',
        'Sergipe':'Sergipe',
        'Setúbal':'Setúbal',
        'Seúl':'Seoul',
        'Sevastopol':'Sevastopol',
        'Shaanxi':'Shaanxi',
        'Shandong':'Shandong',
        'Shanghái':'Shanghai',
        'Shanxi':'Shanxi',
        'Shinyanga':'Shinyanga',
        'Shizuoka':'Shizuoka',
        'Shkodër':'Shkodër',
        'Shumen':'Shumen',
        'Sibiu':'Sibiu',
        'Sichuan':'Sichuan',
        'Sicilia':'Sicily',
        'Sidi Bel Abbes':'Sidi Bel Abbès',
        'Siirt':'Siirt',
        'Sikasso':'Sikasso',
        'Silesia':'Silesian Voivodeship',
        'Sinaloa':'Sinaloa',
        'Sind':'Sindh',
        'Singapur':'Singapore',
        'Sirnak':'Sirnak',
        'Sistán y Baluchistán':'Sistan and Baluchestan',
        'Sivas':'Sivas',
        'Skikda':'Skikda',
        'Sliven':'Sliven',
        'Södermanland':'Södermanland',
        'Sofala':'Sofala',
        'Sofía-Ciudad':'Sofia-Capital',
        'Sokoto':'Sokoto',
        'Sonora':'Sonora',
        'Sonsonate':'Sonsonate',
        'Southland':'Southland',
        'Split-Dalmacia':'Split-Dalmatia',
        'Stara Zagora':'Stara Zagora',
        'Stávropol':'Stavropol Krai',
        'Stiria':'Styria',
        'Suceava':'Suceava',
        'Sucre':'Sucre',
        'Sud':'South',
        'Sudeste':'Southeast',
        'Suhaj':'Sohag',
        'Sumatra Meridional':'South Sumatra',
        'Sumatra Occidental':'West Sumatra',
        'Sumatra Septentrional':'North Sumatra',
        'Sumy':'Sumy',
        'Surjandarín':'Surjandarin',
        'Sus-Masa-Draa':'Souss-Massa-Drâa',
        'Sylhet':'Sylhet',
        'T?nh C?n Th?':'Cần Thơ',
```

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            'Tabasco':'Tabasco',
            'Tabora':'Tabora',
            'Tabuk':'Tabuk',
            'Táchira':'Táchira',
            'Tadla-Azilal':'Tadla-Azilal',
            'Taipéi':'Taipei ',
            'Taiz':'Taiz',
            'Tamaulipas':'Tamaulipas',
            'Tambov':'Tambov',
            'Tamil Nadu':'Tamil Nadu',
            'Tanga':'Tanga',
            'Tánger-Tetuán':'Tanger-Tetouan',
            'Taranaki':'Taranaki',
            'Tarapacá':'Tarapacá',
            'Tarija':'Tarija',
            'Tartu':'Tartu',
            'Tasmania':'Tasmania',
            'Taza-Alhucemas-Taunat':'Taza-Al Hoceima-Taounate ',
            'Teherán':'Tehran',
            'Tekirdag':'Tekirdag',
            'Tel Aviv':'Tel Aviv',
            'Telangana':'Telangana',
            'Tennessee':'Tennessee',
            'Ternópil':'Ternopil',
            'Terranova':'Newfoundland',
            'Territorio de la Capital Australiana':'Australian Capital Territory',
            'Territorio de la Capital Federal':'Federal Capital Territory',
            'Territorio del Norte':'Northern Territory',
            'Tete':'Tete',
            'Texas':'Texas',
            'Th? Dô Hà N?i':'Hanoi',
            'Thiès':'Thiès',
            'Tianjin':'Tianjin',
            'Tiflis':'Tbilisi',
            'Timis':'Timis',
            'Tipaza':'Tipaza',
            'Tirol':'Tyrol ',
            'Tizi Ouzou':'Tizi Ouzou',
            'Tlemcen':'Tlemcen',
            'Tocantins':'Tocantins',
            'Tochigi':'Tochigi',
            'Tokat':'Tokat',
            'Tokio':'Tokyo',
            'Tolima':'Tolima',
            'Toscana':'Tuscany',
            'Tottori':'Tottori',
            'Trebisonda':'Trabzon',
            'Trengganu':'Terengganu ',
            'Trentino-Alto Adigio':'Trentino-Alto Adige',
            'Tripura':'Tripura',
            'Túnez':'Tunisia',
            'Turingia':'Thuringia',
            'Ucayali':'Ucayali',
            'Ulán Bator':'Ulaanbaatar',
            'Ulsan':'Ulsan',
            'Umbría':'Umbria',
            'Upsala':'Uppsala',
            'Usak':'Usak',
            'Ústí nad Labem':'Ústí nad Labem',
            'Utah':'Utah',
            'Utrecht':'Utrecht',
            'Uttar Pradesh':'Uttar Pradesh',
            'Uttarakhand':'Uttarakhand',
            'Uusimaa':'Uusimaa',
            'Vâlcea':'Vâlcea',
            'Valenciana':'Valencian Community ',
            'Valle del Cauca':'Valle del Cauca',
            'Vallée du Bandama':'Bandama Valley',
            'Valparaíso':'Valparaíso',
            'Van':'Van',
            'Vargas':'Vargas',
            'Värmland':'Värmland',
            'Varna':'Varna',
            'Västra Götaland':'Västra Götaland',
            'Vaud':'Vaud',
            'Véneto':'Veneto',
            'Veracruz':'Veracruz',
            'Vermont':'Vermont',
```

```
        'Vest-Agder':'Vest-Agder',
        'Victoria':'Victoria',
        'Viena':'Vienna',
        'Villa Clara':'Villa Clara',
        'Vilna':'Vilnius ',
        'Vinnytsia':'Vinnytsia ',
        'Virginia':'Virginia',
        'Virginia Occidental':'West Virginia ',
        'Visayas Occidental':'Western Visayas',
        'Vitsyebsk':'Vitebsk',
        'Vladímir':'Vladimir',
        'Vlorë':'Vlorë',
        'Volinia':'Volyn',
        'Vorónezh':'Voronezh ',
        'Vrancea':'Vrancea',
        'Waikato':'Waikato',
        'Washington':'Washington',
        'Wellington':'Wellington',
        'Wisconsin':'Wisconsin',
        'Xinjiang Uygur':'Xinjiang Uygur',
        'Yakarta':'Jakarta',
        'Yalova':'Yalova',
        'Yamaguchi':'Yamaguchi',
        'Yambol':'Yambol',
        'Yaracuy':'Yaracuy',
        'Yaroslavl':'Yaroslavl',
        'Yazd':'Yazd',
        'Yevrey':'Jewish Autonomous Region',
        'Yibuti':'Djibouti',
        'Yobe':'Yobe',
        'Yogyakarta':'Yogyakarta',
        'Yoro':'Yoro',
        'Yucatán':'Yucatán',
        'Yunnan':'Yunnan',
        'Zacatecas':'Zacatecas',
        'Zagrebacka':'Zagrebacka',
        'Zambezia':'Zambezia',
        'Zamfara':'Zamfara',
        'Zanyán':'Zanjan',
        'Zaporiyia':'Zaporizhia',
        'Zelanda':'Zealand',
        'Zhambyl':'Zhambyl',
        'Zhejiang':'Zhejiang',
        'Zhytómyr':'Zhytomyr',
        'Ziguinchor':'Ziguinchor',
        'Zinder':'Zinder',
        'Zulia':'Zulia',
        'Zúrich':'Zurich',
        'Lubusz':'Lubusz'

  }
```

assigning the dictionary into main data

```
# assigning the dictionary to order state column
data["order_state"] = [order_state_es_to_en[state] if state in order_state_es_to_en else state for state in data["order_state"]]
```

At this point, I have clear data for city, country, and state; the next step is to merge the customer's first and last names to get the customer's full name.

```
# creating customer_full_name column
data['customer_full_name'] = data["customer_first_name"] + " " + data["customer_last_name"]
```

	customer_first_name	customer_last_name	customer_full_name
0	Cally	Holloway	Cally Holloway
1	Irene	Luna	Irene Luna
2	Gillian	Maldonado	Gillian Maldonado
3	Tana	Tate	Tana Tate
4	Orli	Hendricks	Orli Hendricks

After proccessing the columns, now time to extract only necessary data that needed and exporting into excel file

```
data_clean = data[['transaction_type','processing_time(day)','delivery_estimate(day)','profit_per_order','sales_per_customer','delivery_sta
```

```
# exporting clean dataset into csv format
data_clean.to_csv('supply_chain_dataset.csv', encoding = 'utf-8', index = False )
```

Final look of dataset

transaction_type	processing	delivery_	profit	sales_	delivery_status	late	category_id	category_name	customer_	customer_full_name	customer_	customer_address	customer_city	customer_	customer_country	departm	department_nam
Debit	3	4	91.3	314.6	Advance Shipping	0	73	Sporting Goods	20755	Cally Holloway	Consumer	5365 Noble Nectar Island	Caguas	PR	Puerto Rico	2	Fitness
Transfer	5	4	-249	311.4	Late Delivery	1	73	Sporting Goods	19492	Irene Luna	Consumer	2679 Rustic Loop	Caguas	PR	Puerto Rico	2	Fitness
Cash	4	4	-248	309.7	Shipping On Time	0	73	Sporting Goods	19491	Gillian Maldonado	Consumer	8510 Round Bear Gate	San Jose	CA	United States	2	Fitness
Debit	3	4	22.9	304.8	Advance Shipping	0	73	Sporting Goods	19490	Tana Tate	Home Offic	3200 Amber Bend	Los Angeles	CA	United States	2	Fitness
Payment	2	4	134	298.3	Advance Shipping	0	73	Sporting Goods	19489	Orli Hendricks	Corporate	8671 Iron Anchor Corners	Caguas	PR	Puerto Rico	2	Fitness
Transfer	6	4	18.6	295	Shipping Canceled	0	73	Sporting Goods	19488	Kimberly Flowers	Consumer	2122 Hazy Corner	Tonawanda	NY	United States	2	Fitness
Debit	2	1	95.2	288.4	Late Delivery	1	73	Sporting Goods	19487	Constance Terrell	Home Offic	1879 Green Pine Bank	Caguas	PR	Puerto Rico	2	Fitness
Transfer	2	1	68.4	285.1	Late Delivery	1	73	Sporting Goods	19486	Erica Stevens	Corporate	7595 Cotton Log Row	Miami	FL	United States	2	Fitness
Cash	3	2	134	278.6	Late Delivery	1	73	Sporting Goods	19485	Nichole Olsen	Corporate	2051 Dusty Route	Caguas	PR	Puerto Rico	2	Fitness
Cash	2	1	132	275.3	Late Delivery	1	73	Sporting Goods	19484	Oprah Delacruz	Corporate	9139 Blue Blossom Court	San Ramon	CA	United States	2	Fitness
Transfer	6	2	131	272	Shipping Canceled	0	73	Sporting Goods	19483	Germane Short	Corporate	4058 Quiet Heights	Caguas	PR	Puerto Rico	2	Fitness
Transfer	5	2	45.7	268.8	Late Delivery	1	73	Sporting Goods	19482	Freya Robbins	Consumer	3243 Shady Corner	Freeport	NY	United States	2	Fitness
Transfer	4	2	21.8	262.2	Late Delivery	1	73	Sporting Goods	19481	Cassandra Jensen	Corporate	131 Sunny Treasure Green	Salinas	CA	United States	2	Fitness
Debit	2	1	24.6	245.8	Late Delivery	1	73	Sporting Goods	19480	Natalie Mcfadden	Corporate	2531 Wishing Square	Caguas	PR	Puerto Rico	2	Fitness

latitude	longitude	market	order_city	order_country	order_custon	order_date	order_id	order_item_	order_item_disc	order_item_c	order_item_id	order_item_pr	order_item_pr	order_iten	sales	order_iten
18.2514534	-66.037056	Pacific Asia	Bekasi	Indonesia	20755	01/31/2018 22:56	77202	1360	13.11	0.04	180517	327.75	0.29	1	327.75	314.64
18.27945137	-66.0370636	Pacific Asia	Bikaner	India	19492	01/13/2018 12:27	75939	1360	16.39	0.05	179254	327.75	-0.8	1	327.75	311.36
37.29223251	-121.881279	Pacific Asia	Bikaner	India	19491	01/13/2018 12:06	75938	1360	18.03	0.06	179253	327.75	-0.8	1	327.75	309.72
34.12594605	-118.291016	Pacific Asia	Townsville	Australia	19490	01/13/2018 11:45	75937	1360	22.94	0.07	179252	327.75	0.08	1	327.75	304.81
18.25376892	-66.0370483	Pacific Asia	Townsville	Australia	19489	01/13/2018 11:24	75936	1360	29.5	0.09	179251	327.75	0.45	1	327.75	298.25
43.01396942	-78.8790665	Pacific Asia	Toowoomba	Australia	19488	01/13/2018 11:03	75935	1360	32.78	0.1	179250	327.75	0.06	1	327.75	294.98
18.24253845	-66.037056	Pacific Asia	Guangzhou	China	19487	01/13/2018 10:42	75934	1360	39.33	0.12	179249	327.75	0.33	1	327.75	288.42
25.92886925	-80.1628723	Pacific Asia	Guangzhou	China	19486	01/13/2018 10:21	75933	1360	42.61	0.13	179248	327.75	0.24	1	327.75	285.14
18.23322296	-66.037056	Pacific Asia	Guangzhou	China	19485	01/13/2018 10:00	75932	1360	49.16	0.15	179247	327.75	0.48	1	327.75	278.59
37.77399063	-121.966629	Pacific Asia	Guangzhou	China	19484	01/13/2018 09:39	75931	1360	52.44	0.16	179246	327.75	0.48	1	327.75	275.31
18.28284454	-66.037056	Pacific Asia	Tokyo	Japan	19483	01/13/2018 09:18	75930	1360	55.72	0.17	179245	327.75	0.48	1	327.75	272.03
40.65486527	-73.5870743	Pacific Asia	Manado	Indonesia	19482	01/13/2018 08:57	75929	1360	59	0.18	179244	327.75	0.17	1	327.75	268.76
36.6763382	-121.656517	Pacific Asia	Manado	Indonesia	19481	01/13/2018 08:36	75928	1360	65.55	0.2	179243	327.75	0.08	1	327.75	262.2
18.27843857	-66.037056	Pacific Asia	Sangli	India	19480	01/13/2018 08:15	75927	1360	81.94	0.25	179242	327.75	0.1	1	327.75	245.81

order_profit	order_region	order_state	order_status	product_code_id	product_catego	product_name	product_price	shipping_date	shipping_mode
91.25	Southeast Asia	West Java	Complete	1360	73	Smart watch	327.75	02/03/2018 22:56	Standard Class
-249.09	South Asia	Rajasthan	Pending	1360	73	Smart watch	327.75	01/18/2018 12:27	Standard Class
-247.78	South Asia	Rajasthan	Closed	1360	73	Smart watch	327.75	01/17/2018 12:06	Standard Class
22.86	Oceania	Queensland	Complete	1360	73	Smart watch	327.75	01/16/2018 11:45	Standard Class
134.21	Oceania	Queensland	Pending Payment	1360	73	Smart watch	327.75	01/15/2018 11:24	Standard Class
18.58	Oceania	Queensland	Canceled	1360	73	Smart watch	327.75	01/19/2018 11:03	Standard Class
95.18	Eastern Asia	Guangdong	Complete	1360	73	Smart watch	327.75	01/15/2018 10:42	First Class
68.43	Eastern Asia	Guangdong	Processing	1360	73	Smart watch	327.75	01/15/2018 10:21	First Class
133.72	Eastern Asia	Guangdong	Closed	1360	73	Smart watch	327.75	01/16/2018 10:00	Second Class
132.15	Eastern Asia	Guangdong	Closed	1360	73	Smart watch	327.75	01/15/2018 09:39	First Class
130.58	Eastern Asia	Tokyo	Suspected Fraud	1360	73	Smart watch	327.75	01/19/2018 09:18	Second Class
45.69	Southeast Asia	North Sulawesi	Pending	1360	73	Smart watch	327.75	01/18/2018 08:57	Second Class
21.76	Southeast Asia	North Sulawesi	Pending	1360	73	Smart watch	327.75	01/17/2018 08:36	Second Class
24.58	South Asia	Maharashtra	Complete	1360	73	Smart watch	327.75	01/15/2018 08:15	First Class

The dataset is ready to be used for further analysis or to be visualized