

Data Visualization of Sales data

Introduction to the Data set

The sales Data is from Kaggle website and the period covers from 2003 to 2005. The sales data record the sales of transportation tools, classic cars, moto cycles, planes, ships, trains, trucks and buses, vintage cars around the world for one certain company. The dimensions of Sample Sales Data include Order Info, Sales, Customer, Shipping, etc., I was used for Segmentation, Customer Analytics, Clustering and More and inspired for retail analytics. This was originally used for Pentaho DI Kettle and originally written by María Carina Roldán, Pentaho Community Member, BI consultant (Assert Solutions), Argentina. As the number of sales transactions is numerous, the data set is just sampled from the whole population data set for us to do analysis. However, we are still able to see all picture of sales in three years so that we can do more research and trend analysis for this company and make strategy for the future development of the company. Moreover, one of the most attractive point of this data set for me is that I can see the complete information of each order information and the location distribution of each sale.

The advantage of using this dataset is that it is an so organized, detailed sales data for us to use in the Tableau, such as the dimensions day, month, quarter, and year are separated with each other by the one who uploaded it online and we can testify analysis skill and see whether I evaluate correctly for sale markets in the following year. Furthermore, it is a data without the cost or profit of each transaction, so we could not observe whether it is a profitable company or not even if its sale performance is not bad. However, the disadvantage of this dataset is that we are not able to acquire the timely useful information for nowadays since it is a dataset cover the

period 10 years ago. In conclusion, it is an excellent dataset to practice data visualization and test what we have learn and what we have done but for its outdated characteristics, it is not that useful for create current sales prediction model.

My purpose on the data visualization of the sales data sets is to show the overall sale performance of each product line and evaluate which market or product line should the company invest more in the following years in order to obtain maximum development and profit.

Layouts of the data set

This is the screen shot of the data set and the dimensions are in the following:

ORDERNUMBER, QUANTITYORDERED, PRICEEACH, ORDERLINENUMBER, SALES, ORDERDATE, STATUS, QTR_ID, MONTH_ID, YEAR_ID, PRODUCTLINE, MSRP, PRODUCTCODE, CUSTOMERNAME, PHONE, ADDRESSLINE1, ADDRESSLINE2, CITY, STATE, POSTALCODE, COUNTRY, TERRITORY, CONTACTLASTNAME, CONTACTFIRSTNAME, DEALSIZE.

ORDERNUM	QUANTITY	PRICEEACH	ORDERLIN	SALES	ORDERDATE	STATUS	QTR_ID	MONTH_ID	YEAR_ID	PRODUCTLINE	MSRP	PRODUCTCODE	CUSTOMERNAME	PHONE	ADDRESSLINE1	ADDRESSLINE2	CITY	STATE	POSTALCODE	COUNTRY	TERRITORY	CONTACTLASTNAME	CONTACTFIRSTNAME	DEALSIZE
101001	30	95.7	2	2871	10/10/2003	Shipped	1	2	2003	Motorcycle	95.50-100.70	101001	Land of Tot	2-338-100-927	Long Airport Avenue NYC		NY	10022	USA	NA	Yv	Royal	Small	
101011	30	81.35	5	2455.0	10/10/2003	Shipped	2	5	2003	Motorcycle	95.50-100.70	101011	Reims CofB	26-47-1502	59 rue de l'Abbaye		Reims	51100	France	EMEA	Historic	Paul	Small	
101012	30	94.74	2	2882.85	10/10/2003	Shipped	1	2	2003	Motorcycle	95.50-100.70	101012	Lyons-Savoie	10-3-486-81-27	rue du Colonel-Pain-Petit		Paris	69008	France	EMEA	Dea	Constance	Medium	
101013	40	83.26	26	3340.7	10/10/2003	Shipped	3	8	2003	Motorcycle	95.50-100.70	101013	Frederickson	2-276-400	76044 Hillside Dr		Pasadena	91000	USA	NA	Young	Julie	Medium	
101014	40	5200.27	10	20800.08	10/10/2003	Shipped	3	8	2003	Motorcycle	95.50-100.70	101014	Corporate	6-514-100	7244 Strong St		San Francisco	94103	USA	NA	Brown	Julie	Medium	
101015	30	96.00	1	2872.00	10/10/2003	Shipped	1	10	2003	Motorcycle	95.50-100.70	101015	Technique	91-6-514-100	9080 Parth Circle		Redding	96001	USA	NA	Hansen	Joni	Medium	
101016	20	86.13	9	1722.60	10/10/2003	Shipped	1	11	2003	Motorcycle	95.50-100.70	101016	Danababu	2-20-16-1502	184, Chateau de Tour-Lille		Paris	93000	France	EMEA	Rance	Martine	Small	
101017	40	100	1	4000.00	10/10/2003	Shipped	1	11	2003	Motorcycle	95.50-100.70	101017	Hochhaus	107-2-2002	110 rue de la Couronne	1-81, rue Jean-Baptiste	Paris	75004	France	EMEA	Chateau	Yvonne	Medium	
101018	40	100	1	4000.00	10/10/2003	Shipped	1	11	2003	Motorcycle	95.50-100.70	101018	Hochhaus	107-2-2002	110 rue de la Couronne	1-81, rue Jean-Baptiste	Paris	75004	France	EMEA	Chateau	Yvonne	Medium	
101019	20	96.97	2	1939.55	10/10/2003	Shipped	1	12	2003	Motorcycle	95.50-100.70	101019	Adm. Wilson	6-514-100	5017 North Parkway	10 rue Pierre	CA	91001	USA	NA	Murray	Julie	Small	
101020	40	100	1	4000.00	10/10/2003	Shipped	1	1	2004	Motorcycle	95.50-100.70	101020	Vitacore	2-136-100	2078 Kings Suite 303		NYC	10022	USA	NA	Frick	Michael	Small	
101021	40	100	1	4000.00	10/10/2003	Shipped	1	1	2004	Motorcycle	95.50-100.70	101021	Vitacore	2-136-100	2078 Kings Suite 303		NYC	10022	USA	NA	Frick	Michael	Small	
101022	40	100	1	4000.00	10/10/2003	Shipped	1	1	2004	Motorcycle	95.50-100.70	101022	Vitacore	2-136-100	2078 Kings Suite 303		NYC	10022	USA	NA	Frick	Michael	Small	
101023	40	52.83	1	2113.20	10/10/2003	Shipped	1	2	2004	Motorcycle	95.50-100.70	101023	La Rocheville	40-627-8501	67, rue des Champs-Elysees		Paris	75001	France	EMEA	Lafosse	James	Medium	
101024	30	100	6	3000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101024	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101025	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101025	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101026	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101026	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101027	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101027	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101028	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101028	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101029	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101029	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101030	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101030	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101031	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101031	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101032	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101032	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101033	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101033	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101034	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101034	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101035	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101035	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101036	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101036	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101037	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101037	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101038	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101038	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101039	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101039	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101040	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101040	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101041	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101041	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101042	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101042	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101043	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101043	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101044	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101044	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101045	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101045	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101046	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101046	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101047	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101047	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101048	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101048	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101049	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101049	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101050	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101050	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101051	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101051	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101052	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101052	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101053	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101053	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101054	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101054	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101055	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101055	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101056	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101056	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101057	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101057	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101058	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101058	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101059	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101059	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101060	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101060	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101061	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101061	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101062	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101062	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101063	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101063	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101064	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101064	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101065	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101065	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101066	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101066	Martha's	81-6-514-100	91233 Lakeside Dr		Cambridge	MA	USA	Unimodel	John	Medium		
101067	40	100	6	4000.00	10/10/2003	Shipped	2	6	2004	Motorcycle	95.50-100.70	101067	Martha's	81-6-514-100										

Two high level analytical problems

1. The sales strategy of the company

From data visualization, we can conclude that the sales performance company during the three years are increasingly better than before which shows a promising growth potential for us. Moreover, the most of sales of the company is from the North America and Europe, which are the common developed countries. In addition, the sales of classic car, vintage car and motorcycles takes up almost two out of three of the all sales which demonstrate the future development direction for the company: invest and develop the personal transportation vehicles.

However, there still exists some flaws for its sales strategy. First, the company should not only consolidate and keep relationship with the current customers but also expand their market as fast as possible since it is not easy to do that if their competitors have already come into local markets. For example, the company may exploit their market to China, India, Brazil, Chile, Malaysia and so on. Second, the current markets still have not been exploited completely yet. Except for the top five markets, USA, Spain, France, Australia and UK, the others such as Italy, Finland, Norway, Singapore stay at a medium level, but the countries like Philippines, Iceland, still stay at a low sale level.

Although the North American market is huge, but it's not large enough for a growth-minded business owners, the rest of the world is their oyster. Seeking international growth by going global as an importer-exporter offers opportunity aplenty. Some of the specific advantages presented by successfully growing globally include it can extend the sales life of existing products and services by finding new markets to sell them in as well as it can reduce

dependence on the markets the company has developed in North America. Finally, by entering the global marketplace, the company will learn how to compete against foreign companies and there are too many international opportunities for its further growth. Therefore, it is significant for the company do research for the target market in advance for avoiding the culture difference, the various policies and regulations in local markets. However, the above recommendation is based on a profitable operating state on the condition that there is no profit statistics shown in the data set.

2. The future growth point

The overall performance of this industry is growing over the three years which is shown in the second one dashboard as three line charts for three years. And we can also conclude from the sales by product line chart that plane, train and ships really shows a low level of sales. So it is necessary for the company to take much more effort to promote these products for itself. For example, try to sign a long-term agreement with local government and companies to keep a stable sale. Moreover, the sales always fall into a low point in June Therefore, the company should always display sales campaign in June to drive sales. Besides, the higher sales of USA may give rise to its higher product price. So perhaps it is useful for the total sales growth if the product price increases to a reasonable extent. Eventually, the controlling cost, maintain its variation from others, innovation and creativity of the company are the key points to improve in order to keep competitive among all the companies.

7 bullet points questions that can be answered by this dataset

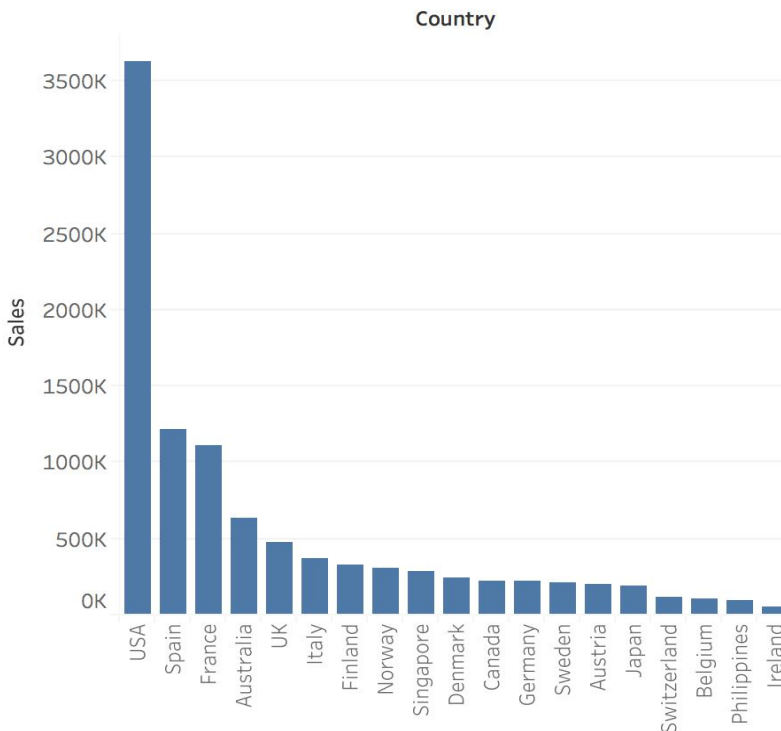
- Which countries is the best sales generator for this company?
- Compared with the sales performance of other countries, which product has the most potential to improve in the next few years for Australia?
- Which month would you recommend this company to do sales campaigns in order to drive sales growth?
- For all the product lines, which one takes up the majority of the sales for the company?
- Where are the main sales markets of this company distributing around the world?
- Which countries has the biggest average sales and the sales data has a largest variance? Which one has the smallest average sales a lowest variance?
- Which country has the highest price for Classic Cars?

Answers of the 7 bullet questions and Design Data Visualizations using Tableau

1) Which countries is the best sales generator for this company?

-----As the screenshot shown, the main sales market of the company is USA and Europe. The USA is the biggest one sale market, and then Spain, France, Australia and UK.

Sales By Country



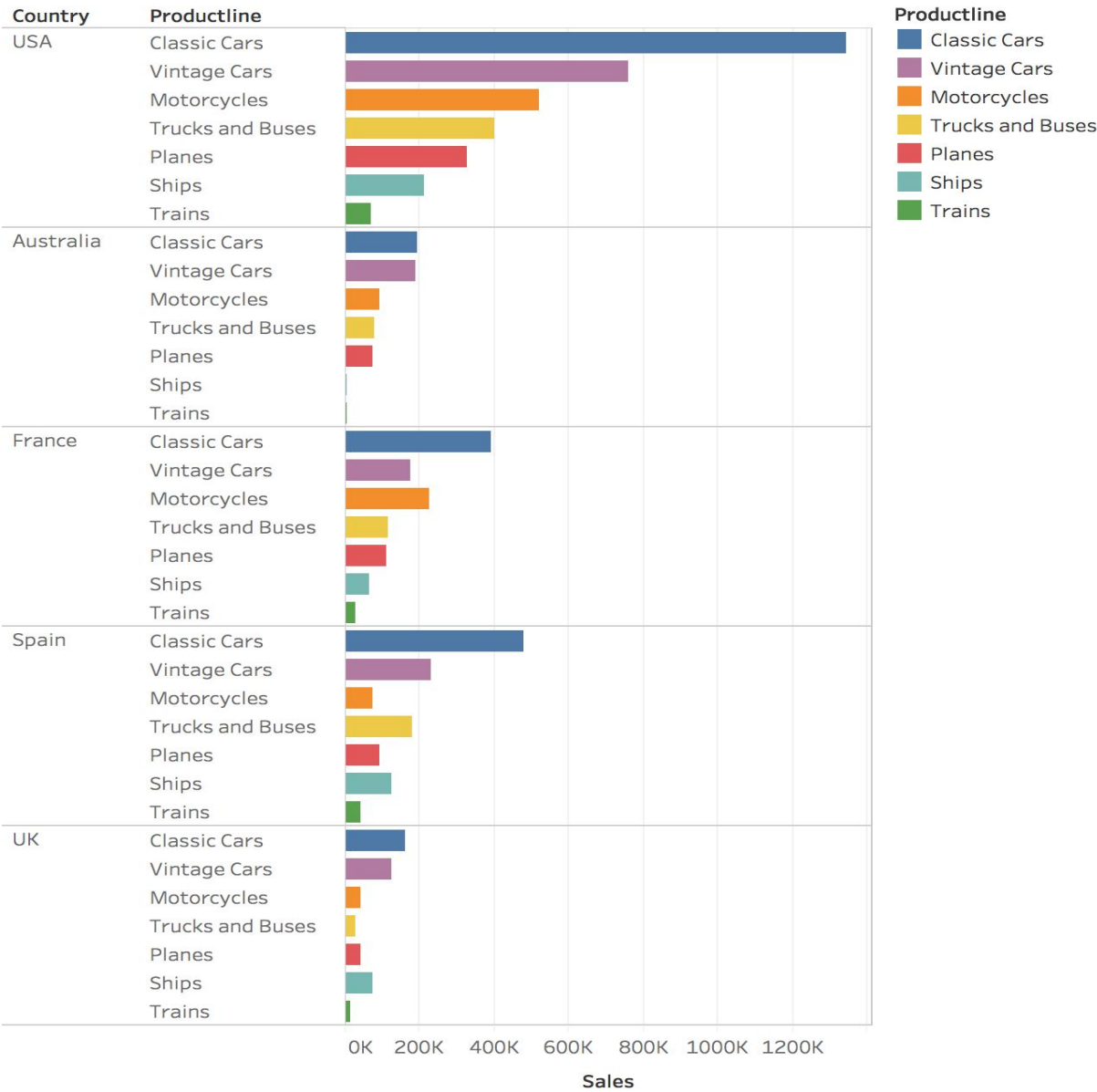
Sum of Sales for each Country.

2) Compared with the sales performance of other countries, which product has the most potential to be improved in the next few years for Australia?

-----We choose the top five best sale country from all the countries and from this chart, we can know sales performance of each product for each country. And see through the comparison, it is seen that the classic car sale of Australia is supposed to improve because the normally the sale of classic cars will outperform vintage cars however Australia shows an equality of these

two sales. And the ship and train sales of Australia is also awful, thus the company should pay more attention to the Australia markets in the following years.

Sales By each Country and product

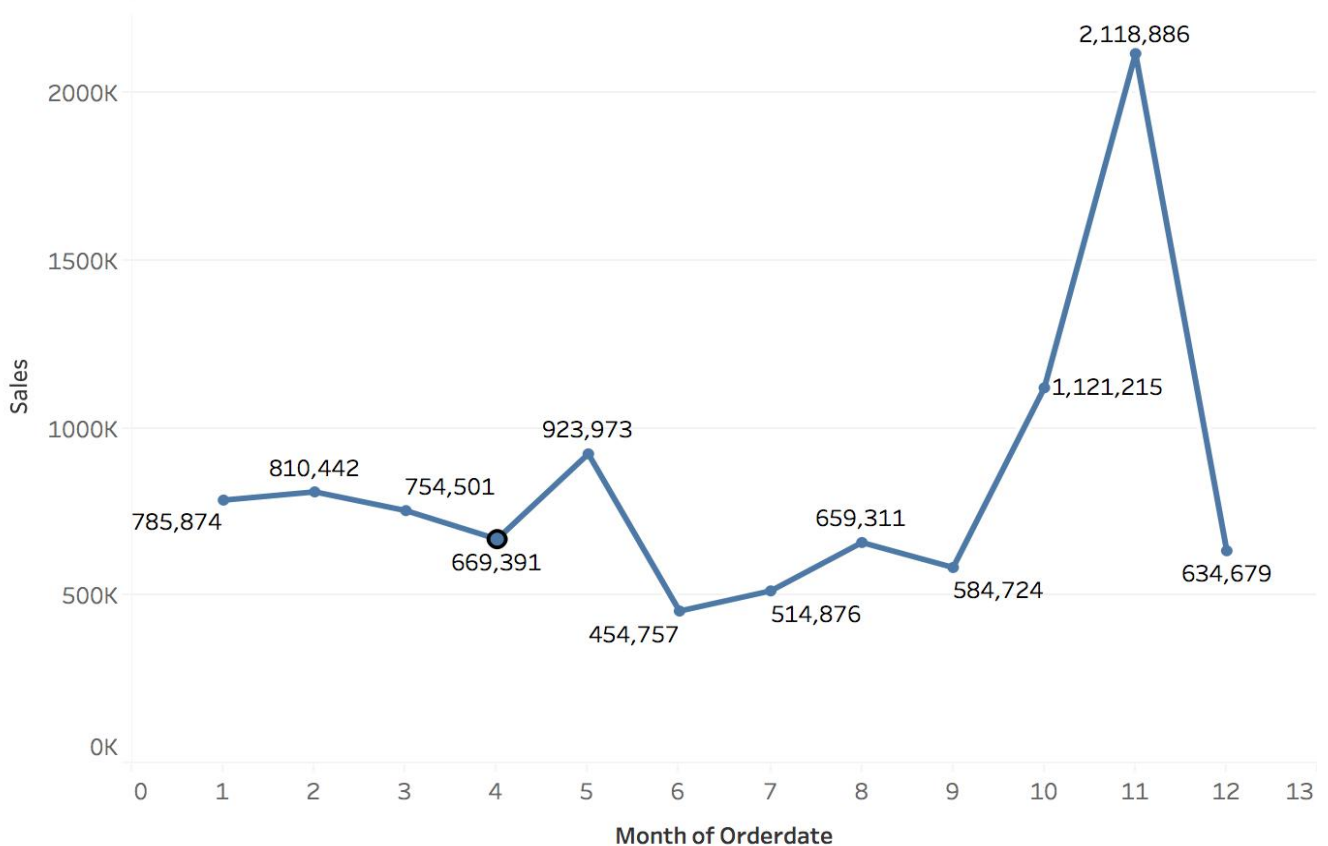


Sum of Sales for each Productline broken down by Country. Color shows details about Productline. The view is filtered on Country, which keeps Australia, France, Spain, UK and USA.

3) Which month would you recommend this company to do sales campaigns in order to drive sales growth?

-----As the sales trend line depicted, the sales will fall into a low point \$454,757 in June and increase extremely to \$2,118,886 in November. Therefore, the company should display sales campaign in June to drive sales.

Monthly Sales Trend

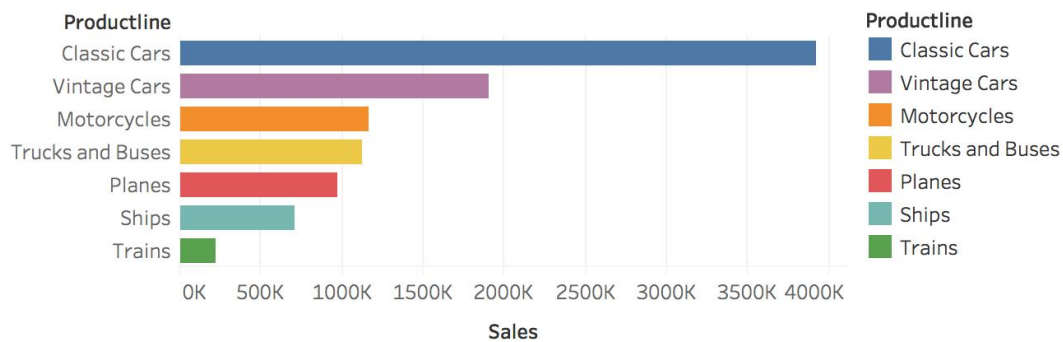


The trend of sum of Sales for Orderdate Month. The marks are labeled by sum of Sales. The data is filtered on Action (State) and Action (Productline). The Action (State) filter keeps 17 members. The Action (Productline) filter keeps 7 members.

4) For all the product lines, which one takes up the majority of the sales for the company?

-----As the graph shown, the overall sales around the world from the top to bottom respectively are classic cars, vintage cars, motorcycles, Trucks and Buses, Planes, ships and Trains. Thus, the classic cars take up the majority of the sales.

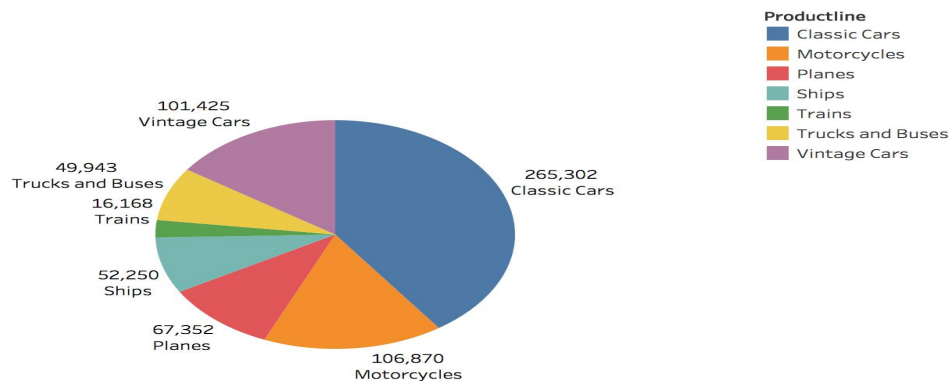
Sales By Productline-descend



Sum of Sales for each Productline. Color shows details about Productline. The data is filtered on Dealsize and Action (State). The Dealsize filter keeps Large, Medium and Small. The Action (State) filter keeps 17 members.

This graph is for ranking the sales of different products.

Percentage by product



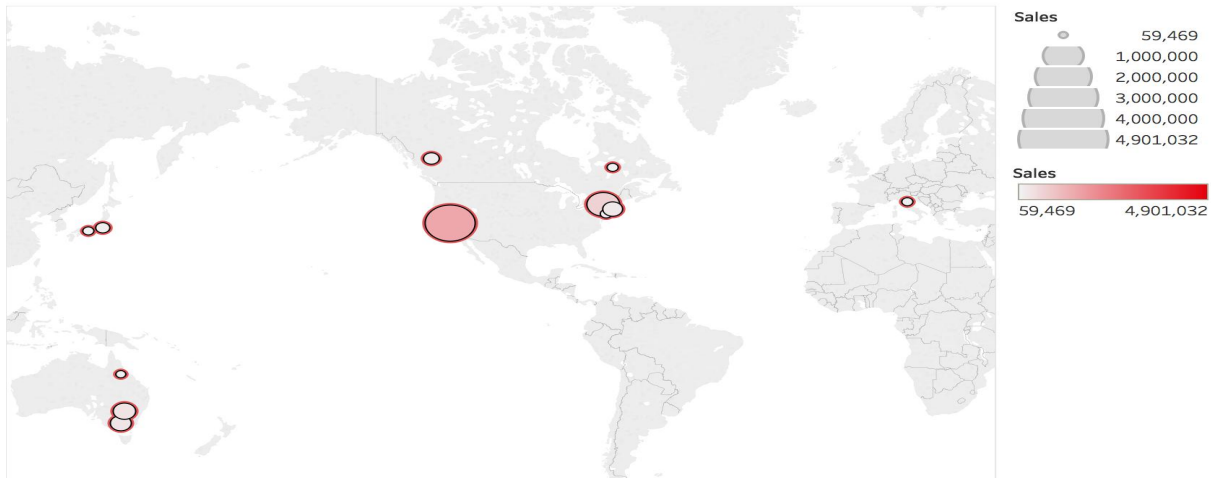
Sum of Sales and Productline. Color shows details about Productline. The marks are labeled by sum of Sales and Productline. The data is filtered on Action (Country,MONTH(Orderdate)), which keeps 10 members. The view is filtered on Productline, which keeps 7 of 7 members.

This graph is for showing the sales percentage of the each product.

5) Where are the main sales markets of this company distributing around the world?

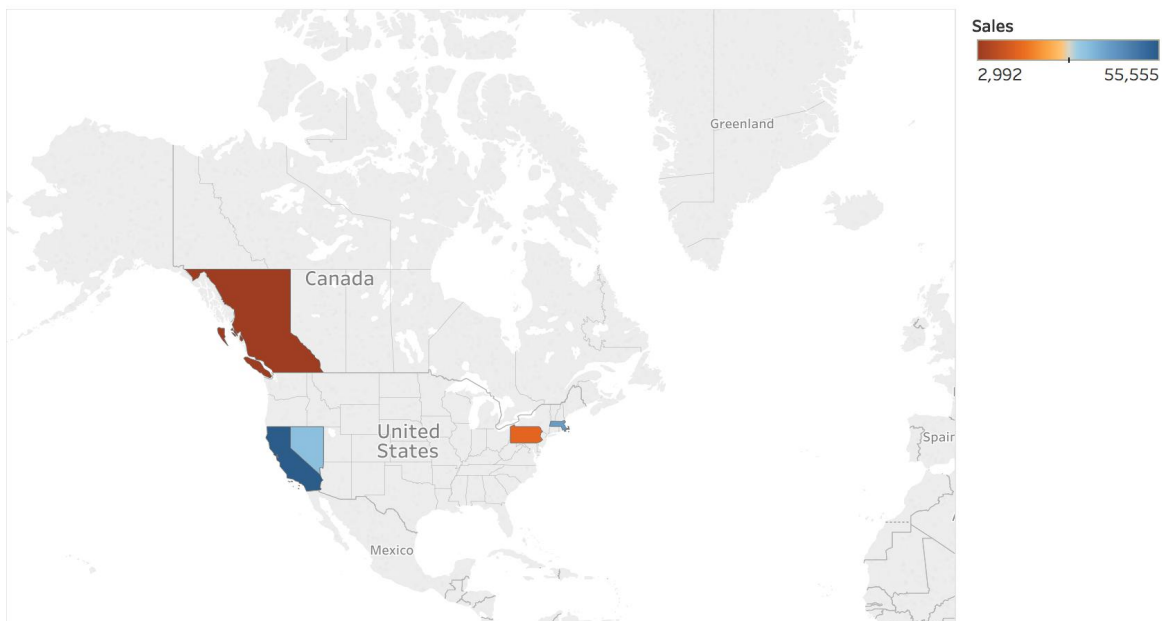
-----As the sales map showing to us the main sales markets of this company distributed around the world are the North America, Europe and Australia.

Sales Size By Location



Map based on Longitude (generated) and Latitude (generated). Color shows sum of Sales. Size shows sum of Sales. Details are shown for State and Territory.

Sales Distribution



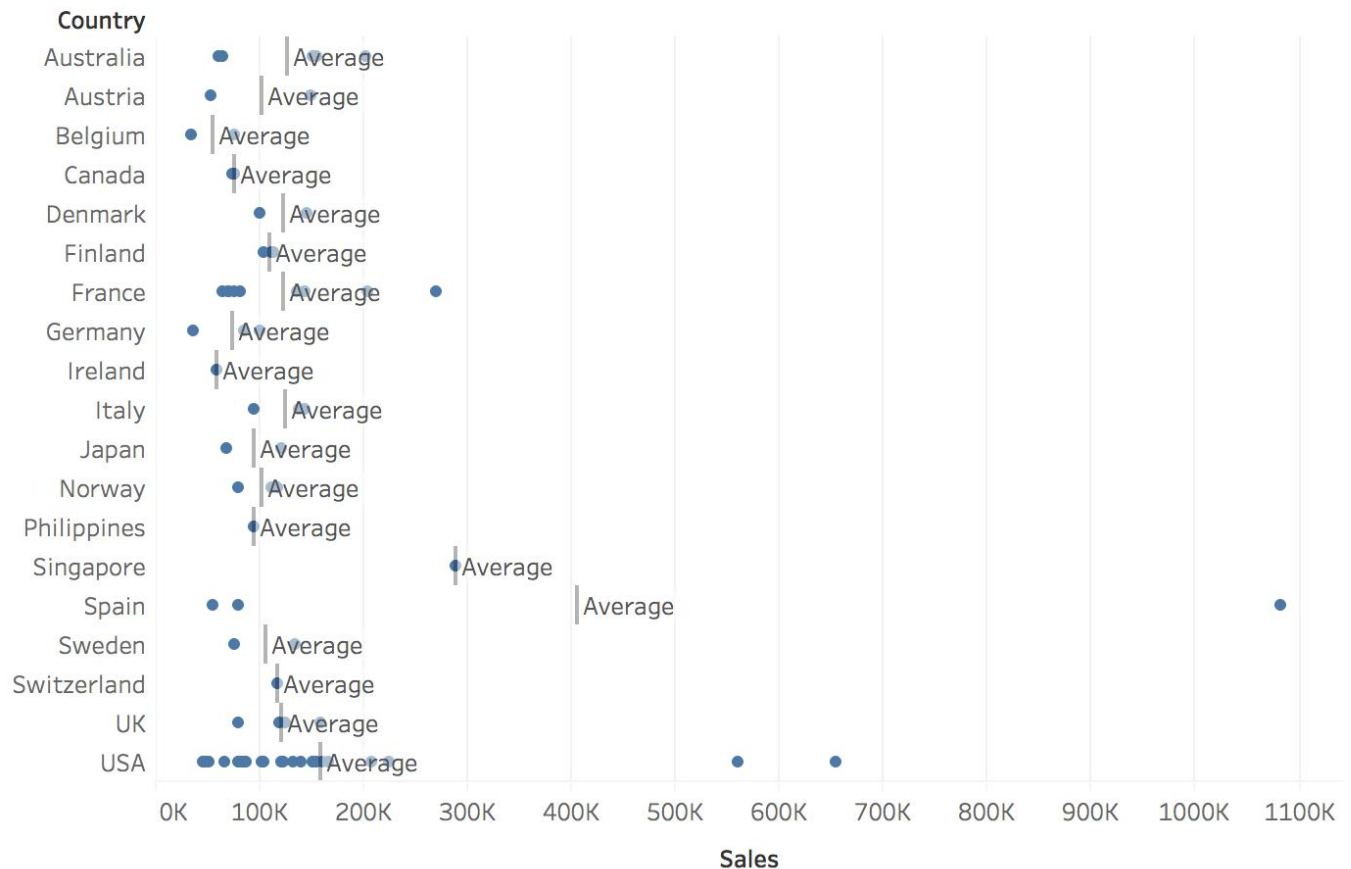
Map based on Longitude (generated) and Latitude (generated). Color shows sum of Sales. Details are shown for State and Country. The data is filtered on Action (Productline) and Action (Country,MONTH(Orderdate)). The Action (Productline) filter keeps 1 member. The Action (Country,MONTH(Orderdate)) filter keeps 10 members. The view is filtered on Latitude (generated) and Longitude (generated). The Latitude (generated) filter keeps non-Null values only. The Longitude (generated) filter keeps non-Null values only.

These two charts are for showing the sales size and distribution of each country.

- 6) Which countries has the biggest average sales and the sales data has a largest variance?
Which one has the smallest average sales a lowest variance?

-----As the image below shown, Spain has the largest average sales and its sales has the largest variance out of the all countries. Belgium has the lowest average sales and Singapore has the lowest variance for its only one order transaction existing.

sales average



Sum of Sales for each Country. Details are shown for City.

This diagram presents the average and variance for each country.

7) Which country has the highest price for Classic Cars?

-----As the charts below shown, the cell of USA for Classic Cars is the darkest blue one which means it is of the highest price of classic cars. And the circle charts in the below can also prove this conclusion.

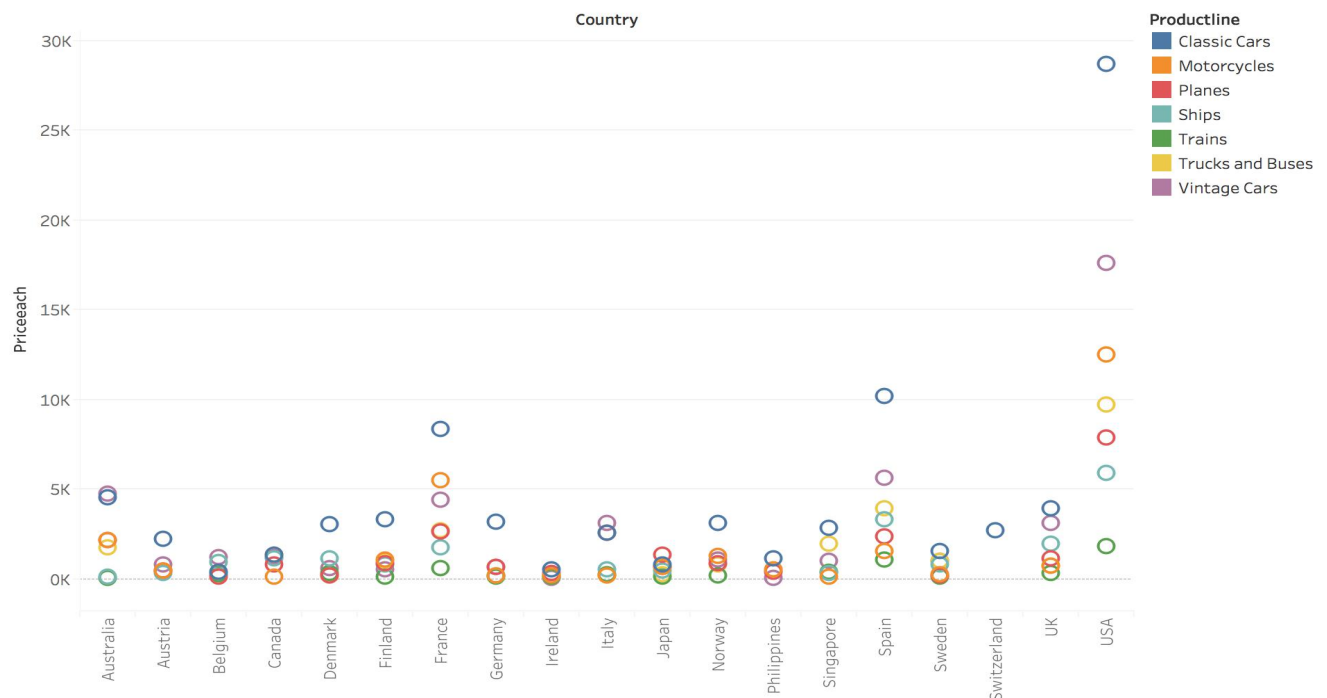
Price by location

Productline	Country																			Priceeach	
	Australia	Austria	Belgium	Canada	Denmark	Finland	France	Germany	Ireland	Italy	Japan	Norway	Philippin..	Singapore	Spain	Sweden	Switzerl..	UK	USA		
Classic Cars	4,522	2,259	400	1,335	3,078	3,325	8,340	3,196	556	2,543	781	3,083	1,172	2,810	10,162	1,556	2,713	3,920	28,705	51	28,705
Motorcycles	2,153	471		100		1,096	5,479	183	166	188	683	1,249	504	95	1,549	281		740	12,536		
Planes	2,137	437	100	821	200	893	2,631	656	355	2,562	1,333	890	398		2,341	212		1,160	7,889		
Ships	141	326	937		1,116	808	1,734	196		515	446			307	3,328	827		1,925	5,898		
Trains	51		244		328	114	615	113	121	228	143	200		365	1,066	100		298	1,838		
Trucks and Buses	1,730	454		1,370	200	979	2,691	200	100	200	261	830		1,973	3,962	975		708	9,714		
Vintage Cars	4,715	812	1,206	1,215	582	508	4,431	640	80	3,092	643	1,067	72	1,032	5,636	993		3,131	17,580		

Sum of Priceeach broken down by Country vs. Productline. Color shows sum of Priceeach. The marks are labeled by sum of Priceeach.

This graph shows the price of each order.

Price comparison



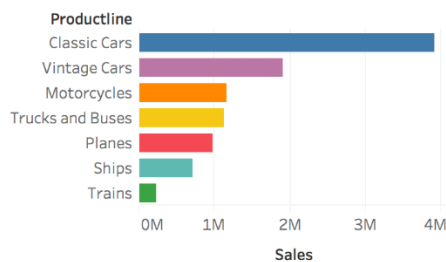
Sum of Priceeach for each Country. Color shows details about Productline.

This diagram compares price of every type of product from each country.

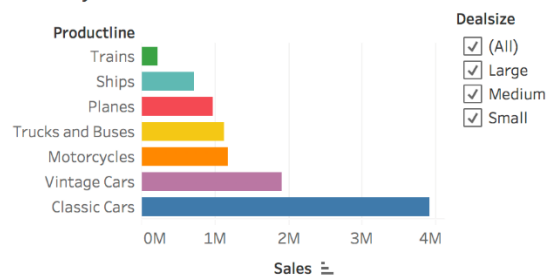
Dashboard1(with Mashup)

In the following dashboard, we can filter the sales by the deal size and see the rankings of sales for each product. In addition, the map shows the sales distribution and the trend line shows the monthly sales trend. What's more, we can use the mashup to search the latest industry data since it is a statistics portal for us to do that. Each parts of the Dashboard can be used as a filter except the mashup.

Sales By Productline-descend



Sales By Productline-ascend



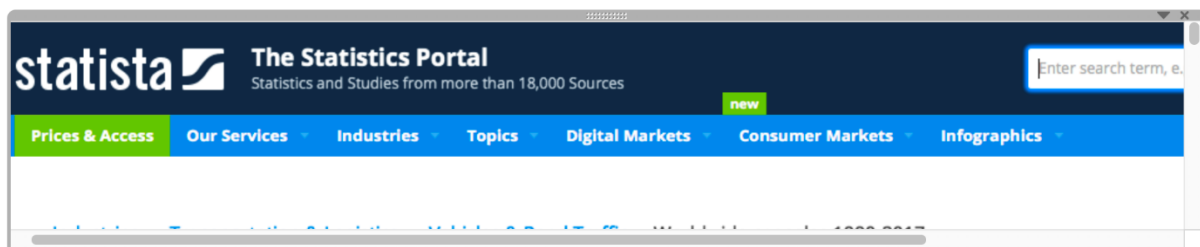
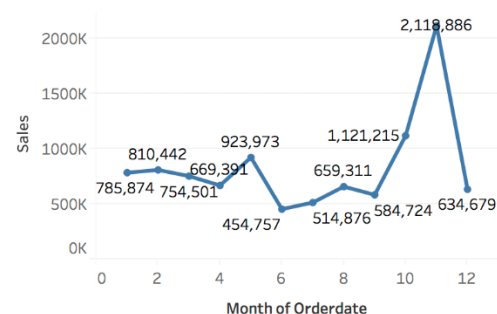
Dealsize

- ☒ (All)
- ☒ Large
- ☒ Medium
- ☒ Small

Sales Distribution



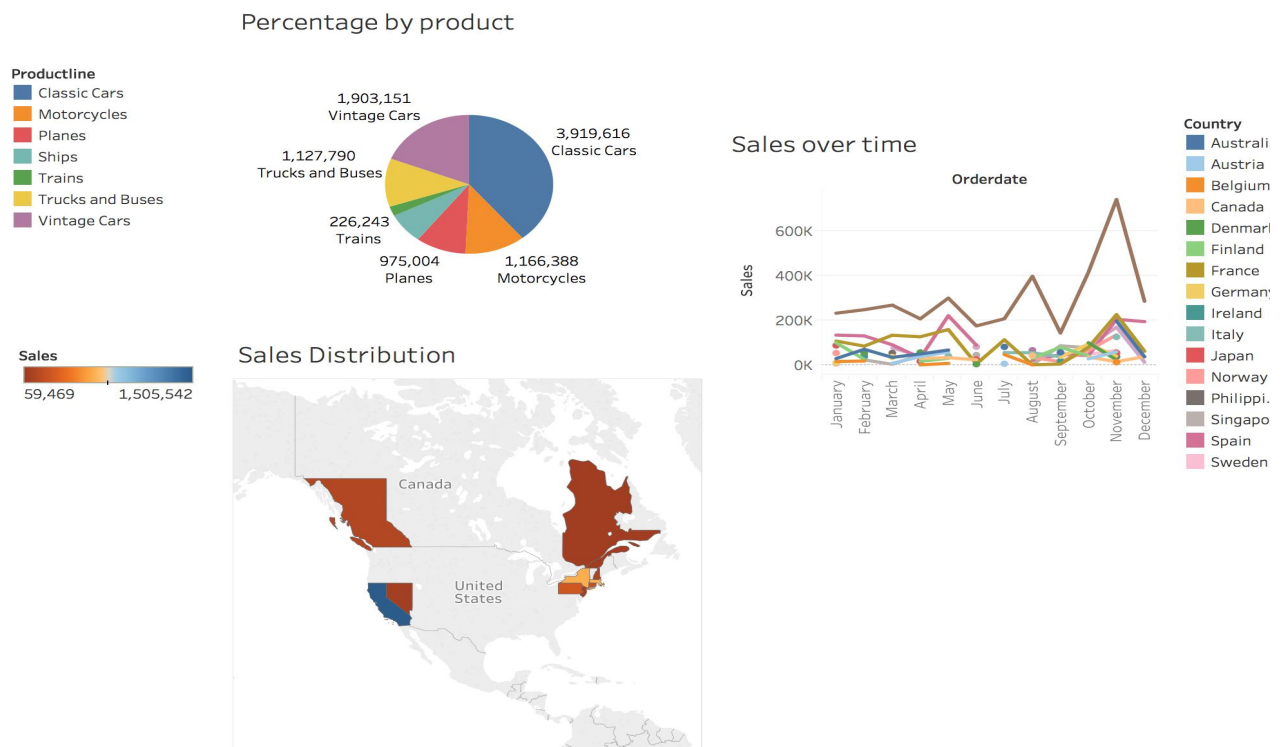
Monthly Sales Trend



Dashboard2 (without mashup)

-----From the graph below, we can get to know the sales over each month for different countries, the sale percentage of each product and the sales distribution around the world.

Moreover, we can use each one as a filter to remove the unnecessary parts from the other two graphs.



Dashboard3

The following graph is a dashboard shown can be used to filter every order information and check whether the products have been shipped or not. And we can also filter the orders by year of order date.

Year of Orderdate

☒ 2003

☒ 2004

☒ 2005

Order Infor.															
	Orderdate														
Customern..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Cambridge ..								14,381		21,783					
Euro Shopp..	53,816	97,385	68,673		41,318	17,448	29,884	5,774	21,986	103,211			31,822		22,35
Danish Who..								4,749	31,330	24,079	58,871				26,01
Boards & To..		5,142						3,987							
Amica Mod..									38,039						
Anna's Dec..				41,792					35,160		47,192				
Atelier grap..															
Australian ..		12,335							14,378						
Australian ..															
Australian ..		21,730				27,099									
Auto Assoc...		5,759									59,075				
Order Status															
	Orderdate														
Ordernumb..	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
10100							Shipped								
10101									Shipped						
10102										Shipped					
10103															
10104															
10105											Shipped				
10106															
10107															
10108			Shipped												
10109										Shipped					
10110															