



Overview

- About Company
- Data source
 - OLTP Database
 - Datawarehouse
- Business Questions
- Tools Used
- Connectivity
- Visualizations and dashboard
- Insights
- Conclusion

About Company

Advanture Work Cycles

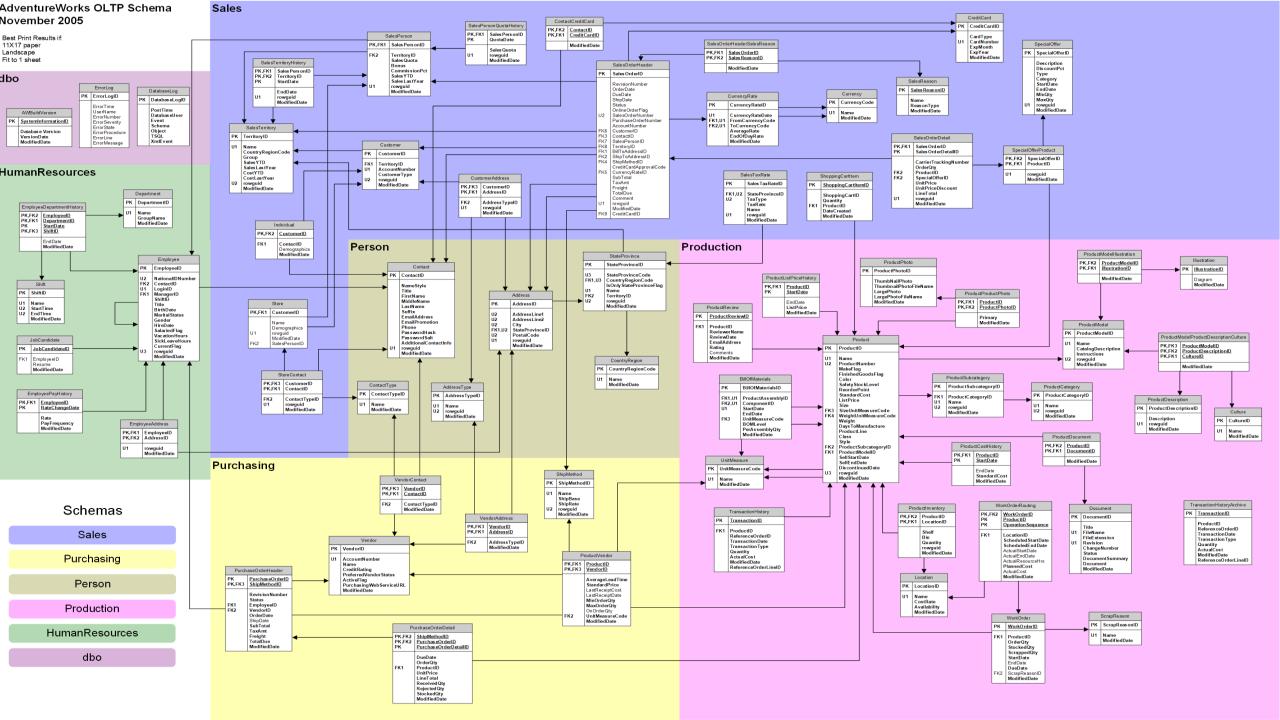
The company manufactures and sells metal and composite bicycles to North American, European and Asian commercial markets. While its base operation is in Bothell, Washington with 290 employees, several regional sales teams are located throughout their market base.



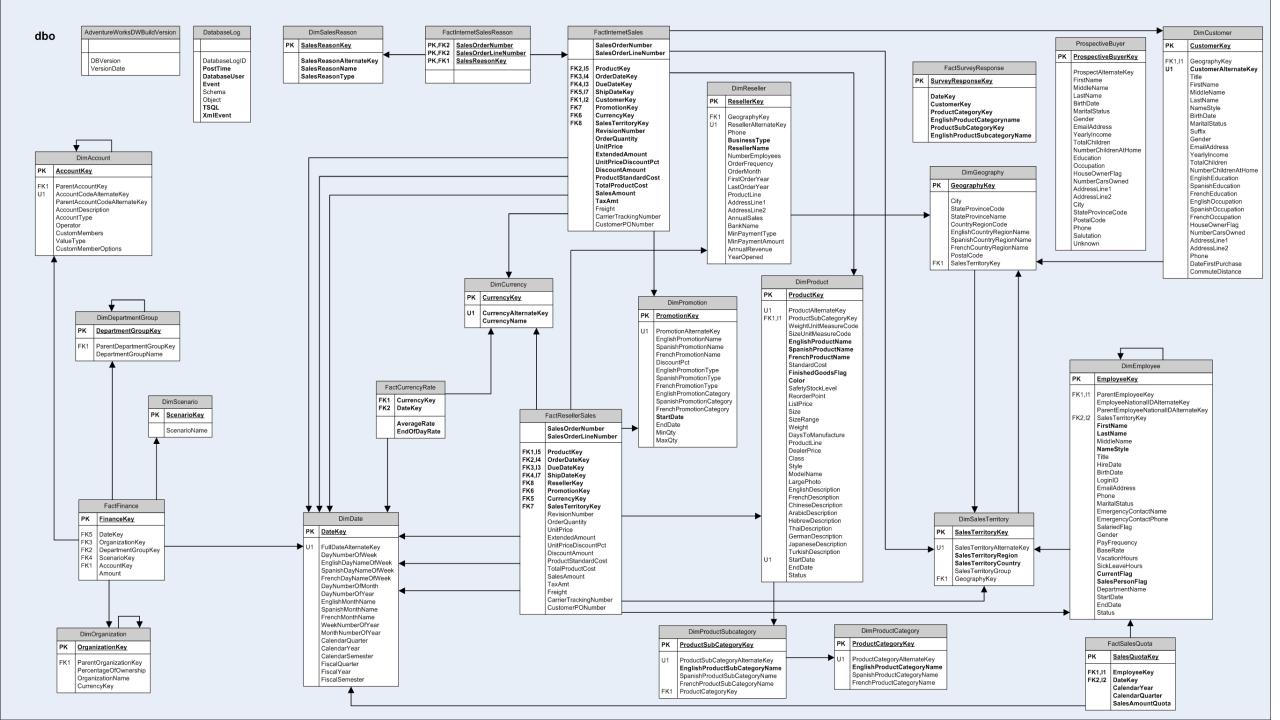
OLTP – Transactional Database

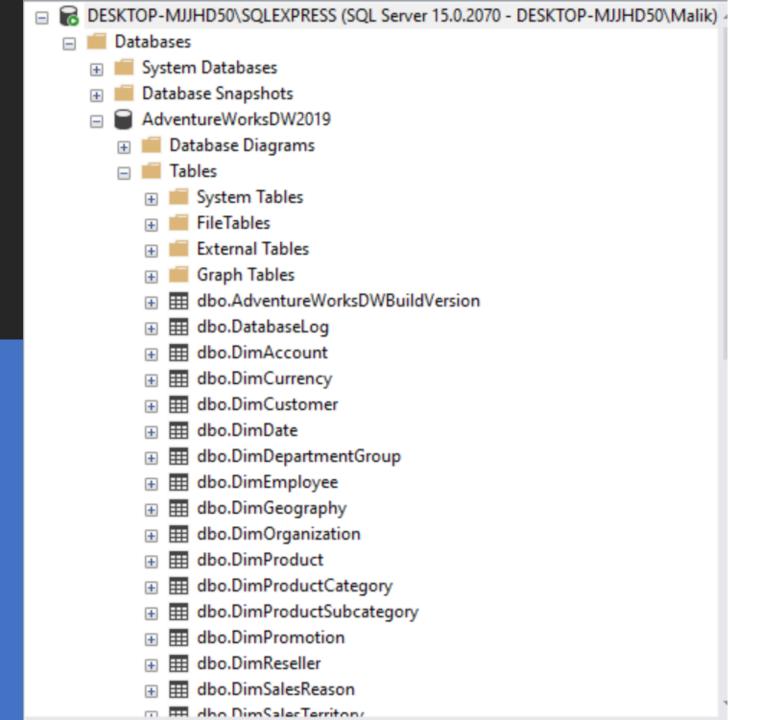
- Sales
- Person
- Production
- Purchasing
- Human Resource

Data Source



Datawarehouse schema





SQL Server

Business Questions

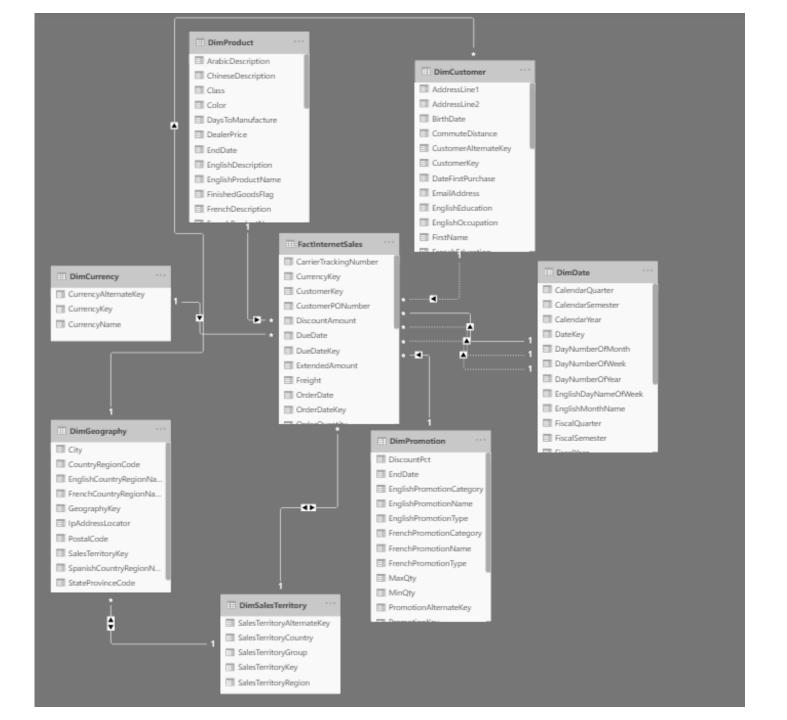
Internet sales Business Questions

Let's say VP of internet sales USA would like to have answer for following business question:

- Total online sales
- Percentage Sales by Country
- Sales by different sates of countries
- Sales by Year
- Sales by product category
- Sales by product Sub-category
- Units sold by year
- Top products in term of sales

Goal:

By the answering these question VP would be able to find weak areas and strong areas of sales and to produce better business decisions and marketing strategies.



Data form dates:

Dec 2010 – Jan 2014

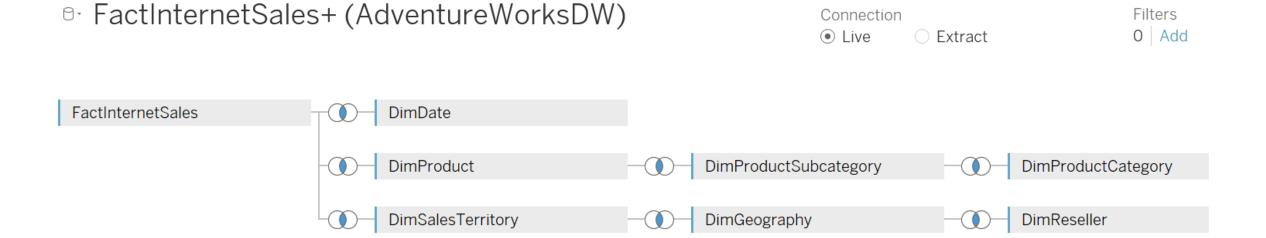
Connection

Fact Internet Sales

60398 records

	ProductKey	OrderDate Key	DueDateKey	Ship Date Key	CustomerKey	Promotion Key	CurrencyKey	SalesTerritoryKey	SalesOrde 4
1	310	20101229	20110110	20110105	21768	1	19	6	SO43697
2	346	20101229	20110110	20110105	28389	1	39	7	SO43698
3	346	20101229	20110110	20110105	25863	1	100	1	SO43699
4	336	20101229	20110110	20110105	14501	1	100	4	SO43700
5	346	20101229	20110110	20110105	11003	1	6	9	SO43701
6	311	20101230	20110111	20110106	27645	1	100	4	SO43702
7	310	20101230	20110111	20110106	16624	1	6	9	SO43703
8	351	20101230	20110111	20110106	11005	1	6	9	SO43704
9	344	20101230	20110111	20110106	11011	1	6	9	SO43705 T
4 11									>

Tableau Data Source Connection



Dimensions and Measures

Data	Analytics					
☐ FactInternetSales+ (AdventureWorksDW						
Dimensions	III ₽					
→ ■ DimDate						
> DimGeogra	DimProduct					
→ ■ DimProduc						
→ ■ DimProduc						
→ ■ DimProduc	D: 0 1 T ::					
→ ■ DimSalesT						
> FactInterne	FactInternetSales					
> 🕹 Country/pr	Country / province hierarchy					
› & Product hie	Product hierarchy					
Abc Measure Na	Measure Names					
Measures						
→ ■ DimDate						
→ ■ DimProduc	t					
→ ■ FactInterne	FactInternetSales					
-# index						
Percetage of	of Total Sales					
# Profit						
# Latitude (ge	enerated)					
# Longitude ((generated)					
# Number of	Number of Records					

Sets

Top 10 Products by sales

Dashboard Design

• • • • • • • • • • •

Calculated Fields and Hierarchies

Country / province hiera

- Country
- State

Product hierarchy

- Abc Product Category
- Abo Product Subcategory

Profit

```
[Sales Amount] - [Total Product Cost]
```

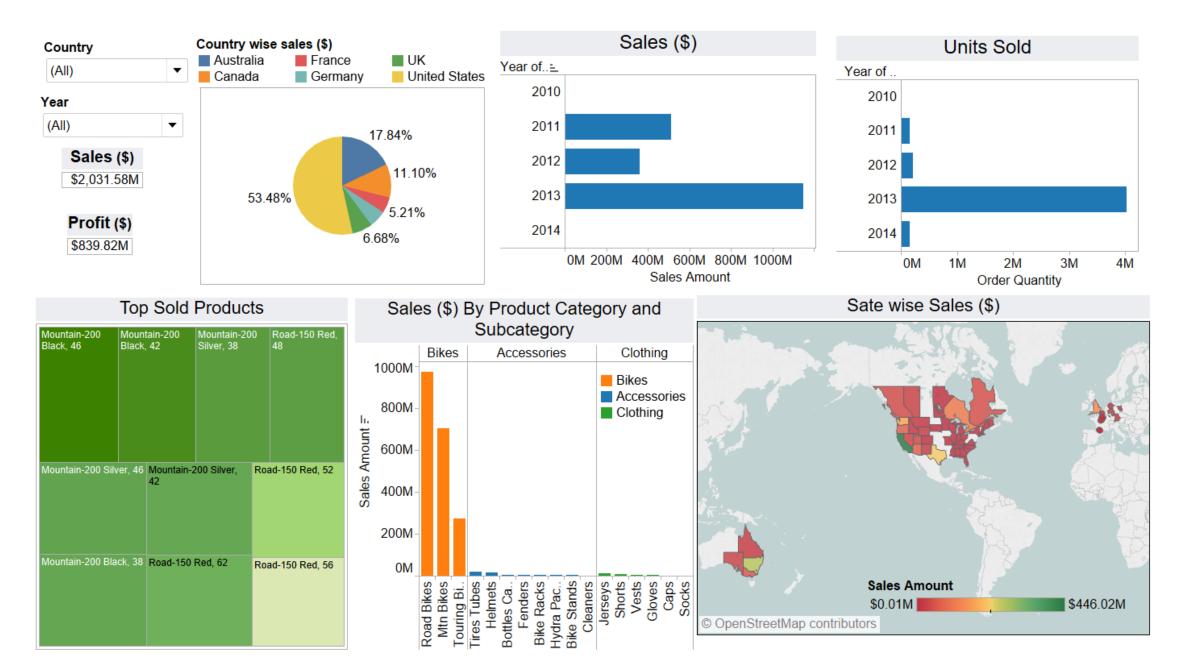
Percetage of Total Sa

```
Totals summarize values from Table (across).

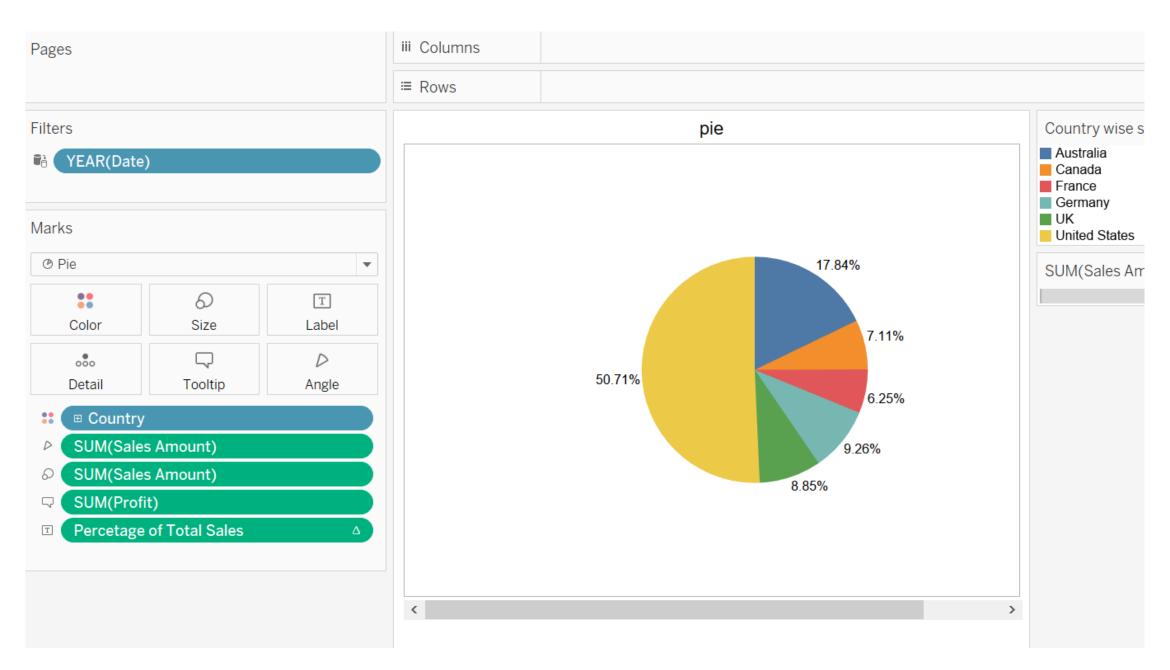
SUM([Sales Amount]) / TOTAL(SUM([Sales Amount]))
```

index

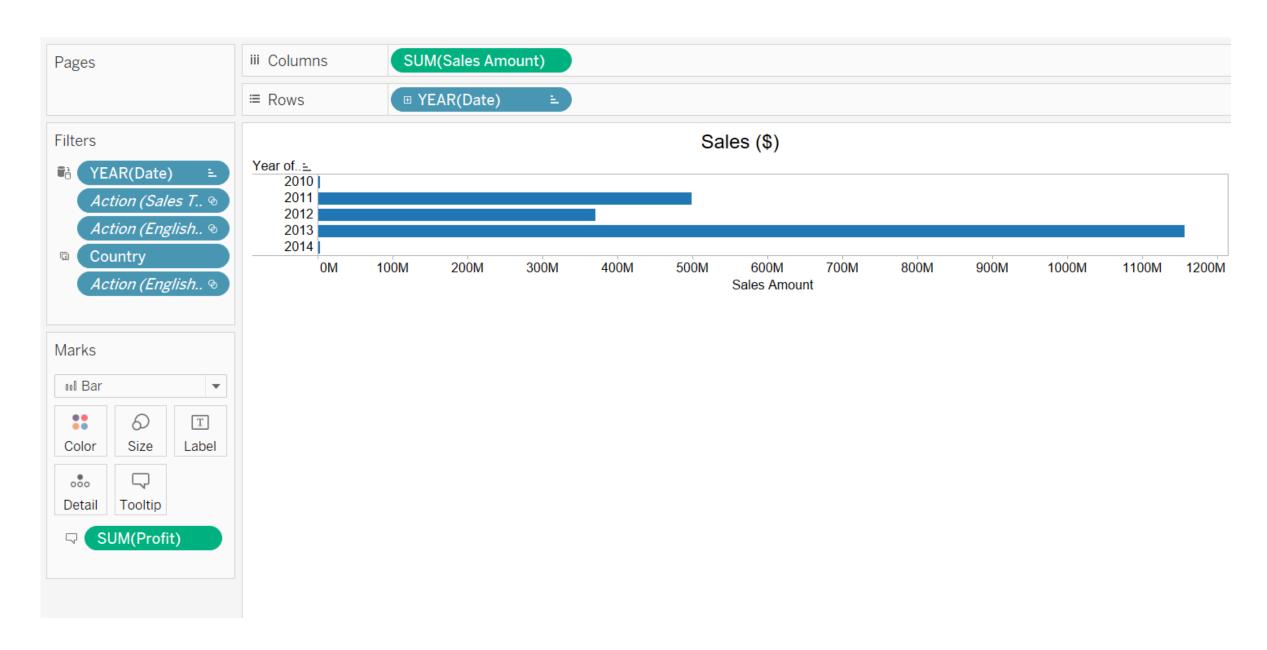
Results are computed along Table (across). INDEX ()



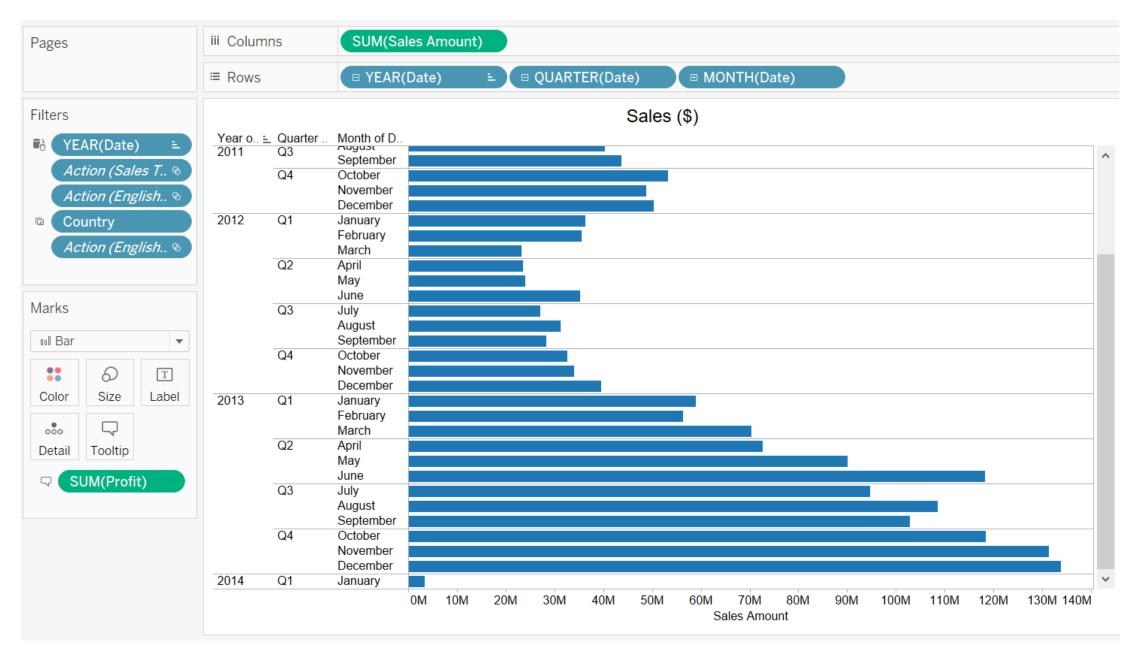
Dashboard



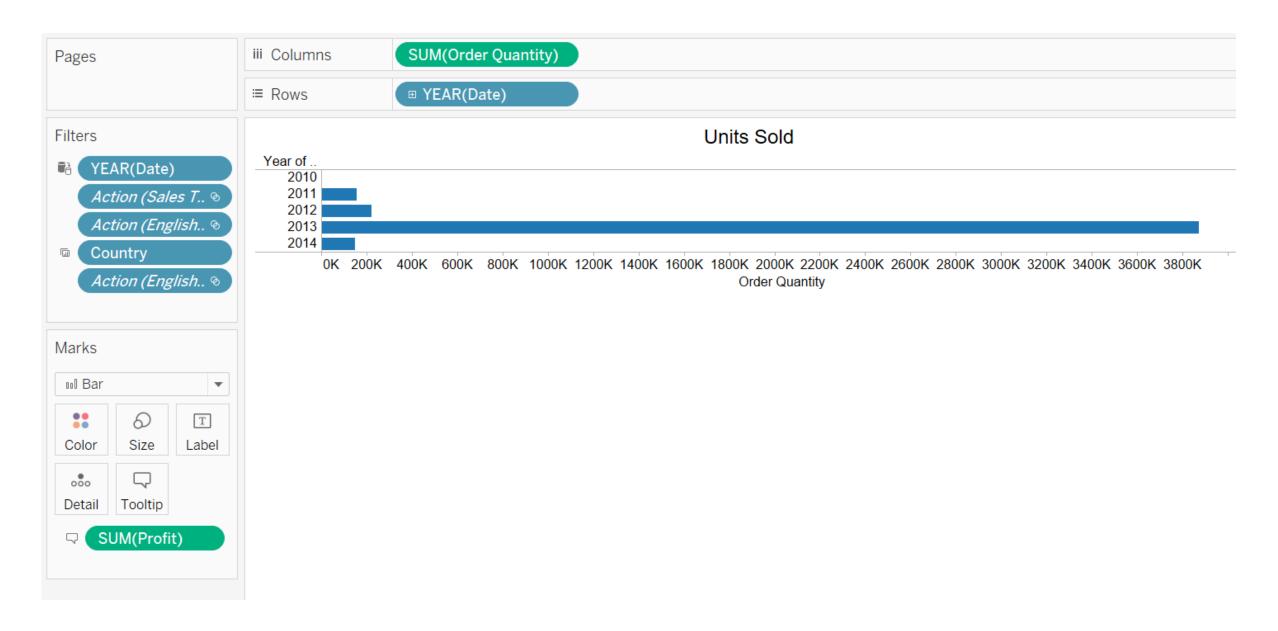
Pie chart of overall sales and profit



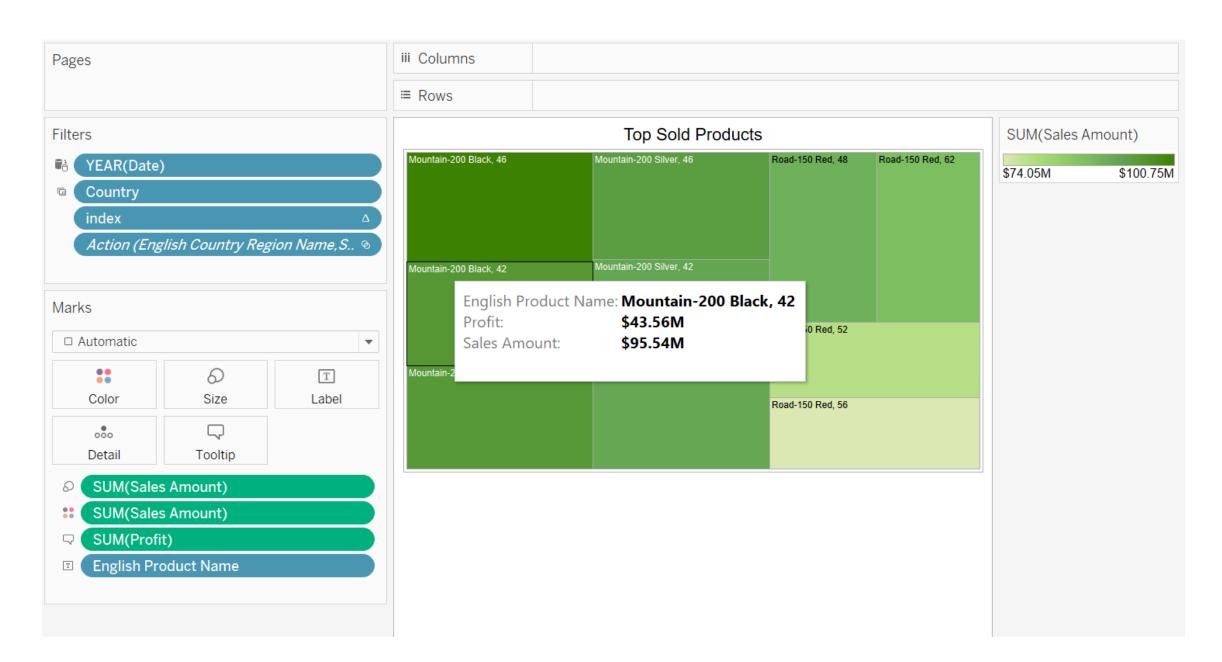
Sales by year



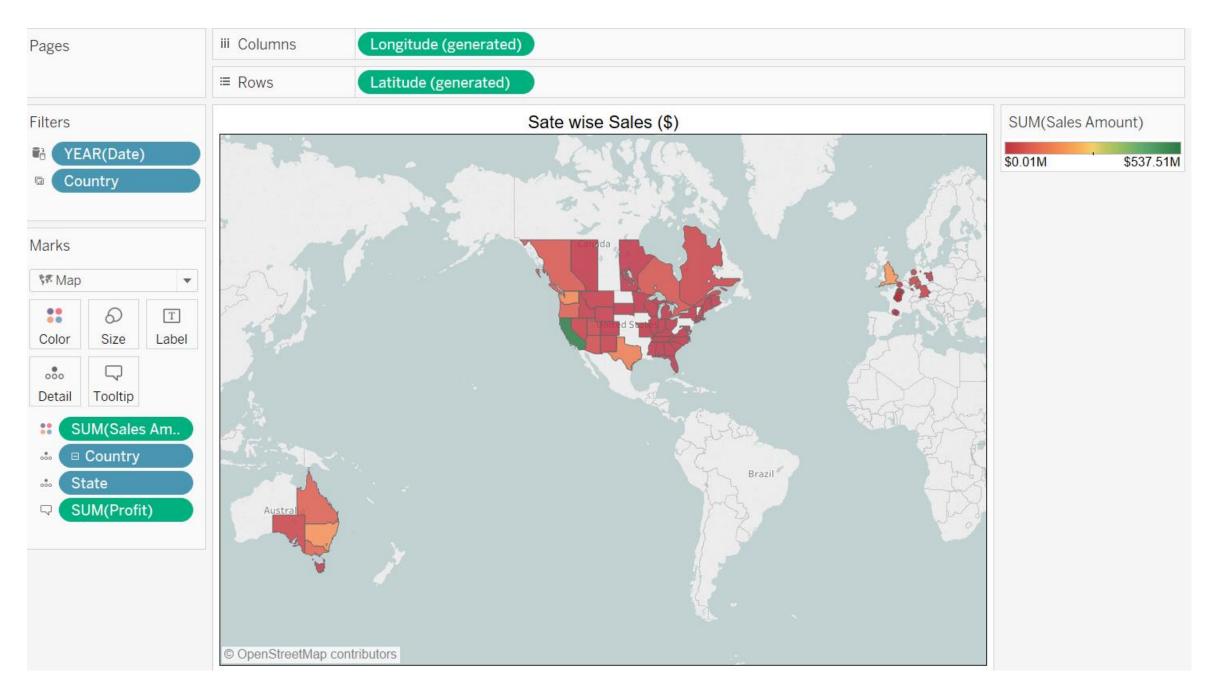
Sales by Date drilldown



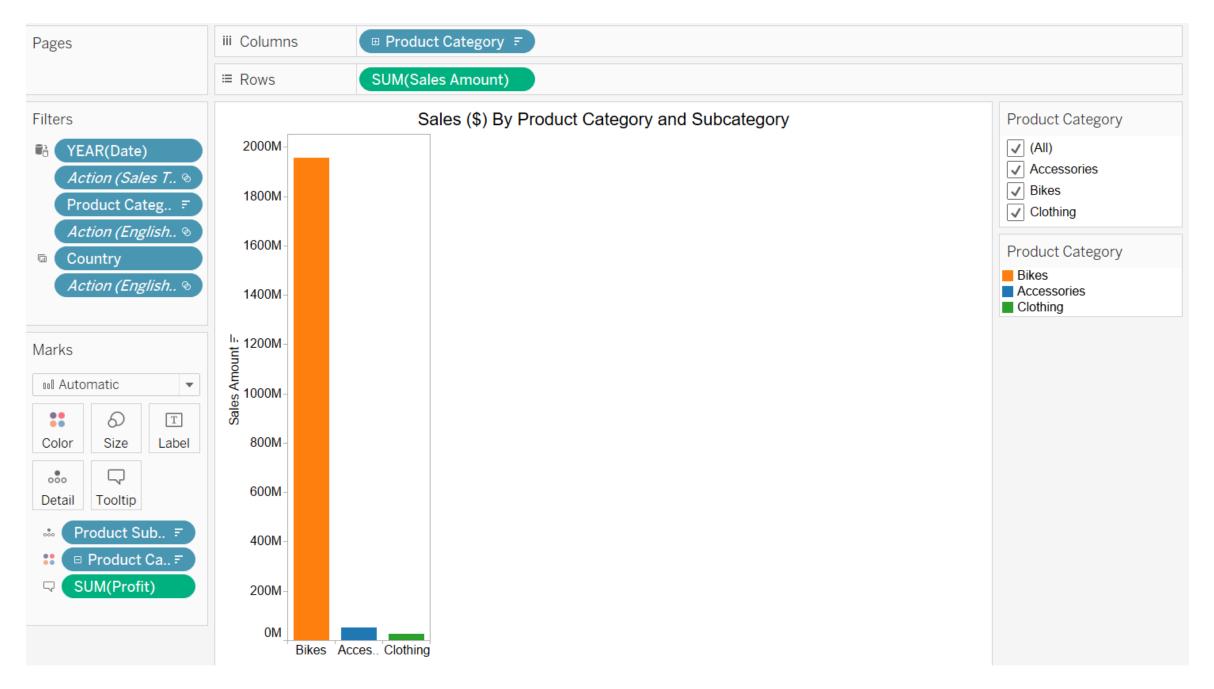
Units sold



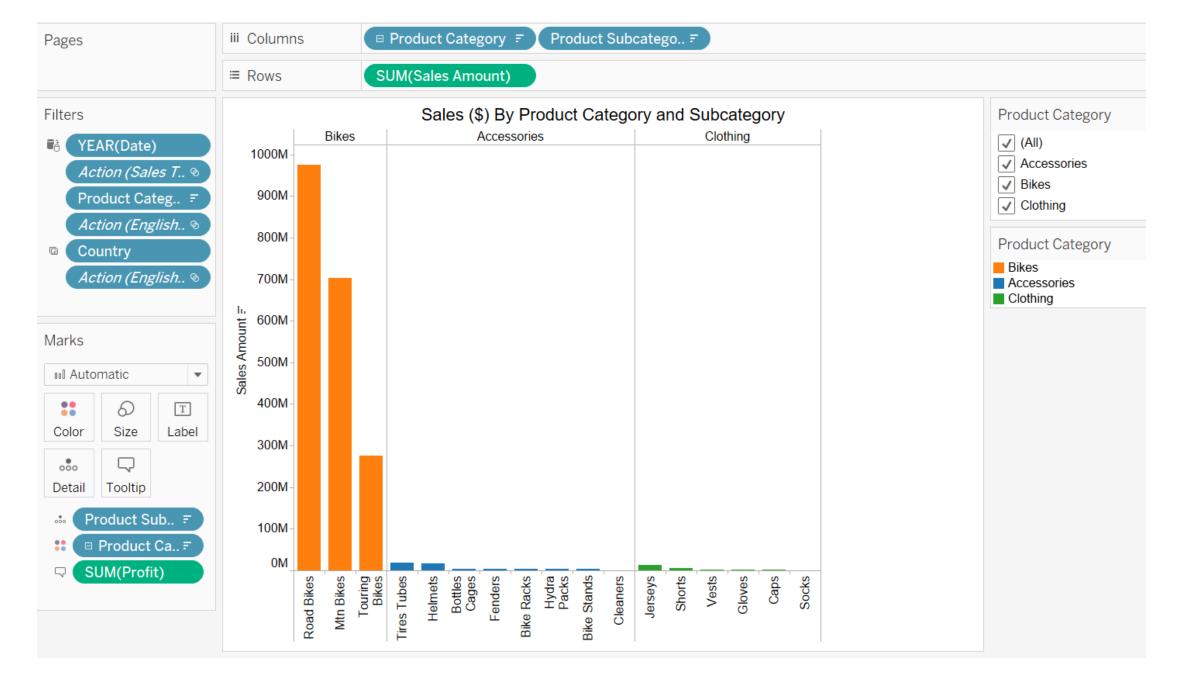
Top sold product



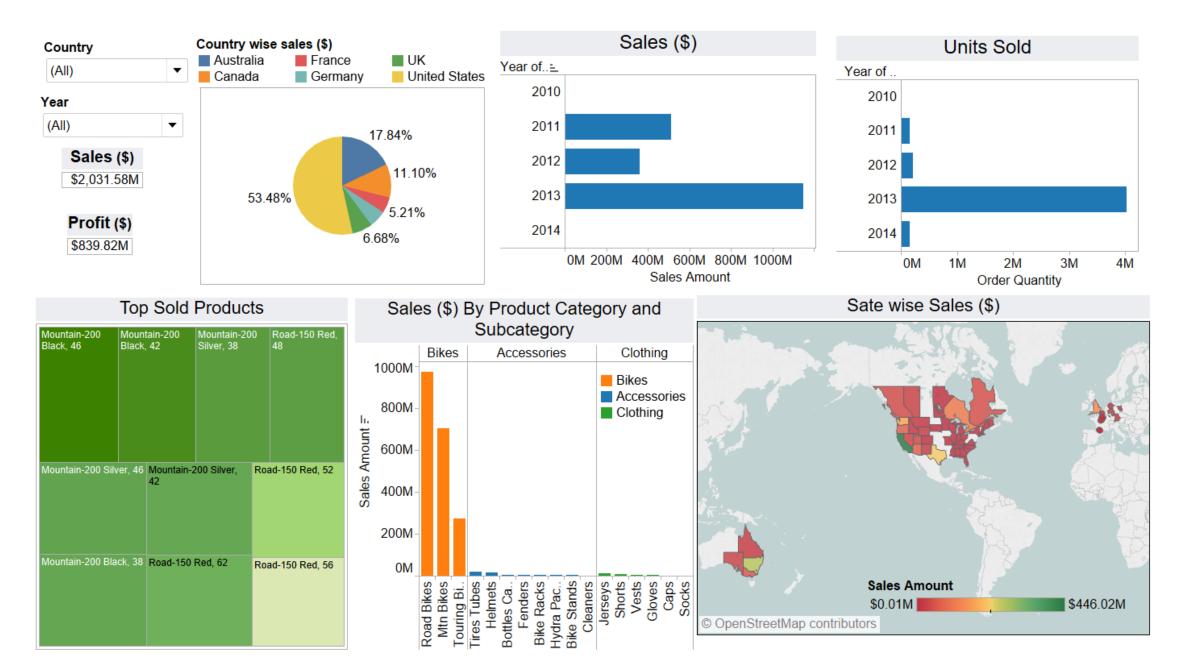
Sales by sates



Sales by categories and subcategories



Sales by categories and subcategories drill down



Dashboard

Based on Exploring the dashboard.

- USA has more then 50% of overall sales. We have sales in Almost every state.
- Other countries has less sales as compared to USA because:
 - Smaller area and lesser population.
 - No sales in some regions
- Overall, sales of 1031.41 million USD

For USA:

- 2010 December stared selling online.
- Only Bikes were sold at that time.
- South East, mid west, north east has no sales.
- Overall, sales of 1.7 million USD

- Kept selling bikes only.
- Still no sales in South East and a few states in mid west.
- Overall, sales of 271.41 million USD

- Added new products of categories accessories and clothing
- Also expanded to south east and north east sides of USA
- Overall, sales of 154.72 million USD dropped from 271.41 million.

- All 3 categories kept selling with the spike in mountain bikes.
- Sales from accessories and cloths also has raised to approx.. 9 and 6 million USD.
- No further expansion to other areas.
- Overall, sales of 600.72 million USD

- Just the January of 2014 has passed.
- So far no sales for bikes. That because of cold weather.

Conclusion

Conclusion

- We need to conduct research on the central sates of USA where we have no sales. It could be weather or local popular brand or maybe people don't do cycling that much.
- Need marketing and awareness campaigns in such area to increase sales.
- Expending to other regions drops the overall sales. May need to look at marketing budget sate wise. Or focus more on hot sates where more sales are made.
- Mountain bikes has given more profit than road bikes. However, road bikes has more sales. We might need to look for adding other products related to road bikes. Which could sell along with road bikes.

Thank you

Any Question?

Tools

- SQL ServerTableau