Data Analysis And Data Visualization Using Microsoft Power – Business Intelligence. These set of services are used by the business analytics to consume the data from different source and build reports based on that data.

Problem Statement:

Data Visualization is also an element of the data presentation architecture discipline, which aims to identify, locate, manipulate, format and deliver data in the most efficient way. Here, Power – BI provides charts and graphs so that people can easily handle excess amount of data. Power – BI toolkit transforms our data into a meaningful information, and making its one of the most popular business intelligence tools.

Hypothesis:

While data visualization tools have grown in power, they have also become more user-friendly. Unfortunately, there still remain consequences in people's ability, while using them due to a lack of data literacy. Data literacy is the ability to read, understand, create, and communication between data as information. Many data visualization tools do not provide the context needed to understand the underlying data.

Materials:

1. Microsoft Power - Business Intelligence, it establishs the connections for Excel query to make analysis quicker. Power – BI is a powerful tool for communicating and collaboration of data.

Methods:

1. Providing a real-time dashboard updates.
2. Providing a secure and reliable connections to the data sources in the cloud.
3. Allowing data exploration using a natural language query.
4. Providing a hybrid configuration, quick deployment, and secure environment.
5. Buidling a inter-active dashboards with regularly updated with the community.
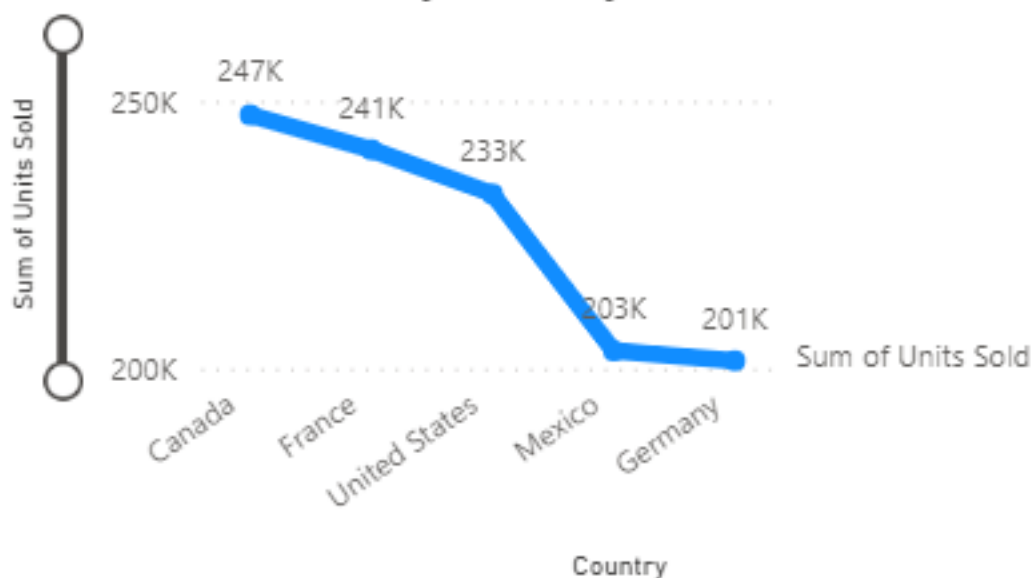
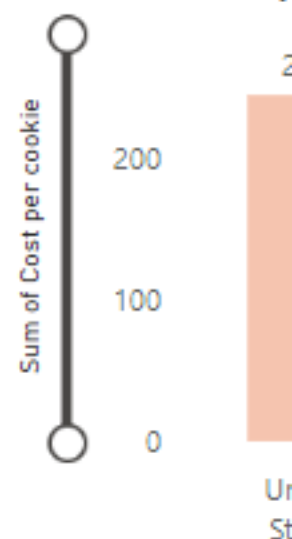Lab Set-up:

Sum of Revenue per cookie by Profit

OK   1K   2K   3K   4K

Profit

Sum of Pro

16.
56.
16.4
70.79K
17.4
67.9

30

Sum of Units Sold by Country

247K
250K   241K
233K
203K   201K   Sum of Units Sold
200K

Canada   France   United States   Mexico   Germany

Country

Sum of Cost p

Sum of Cost per cookie

200

100

0

Ur
St

Country

NORTH AMERICA

EUROPE

Atlantic
Ocean

Microsoft Bing

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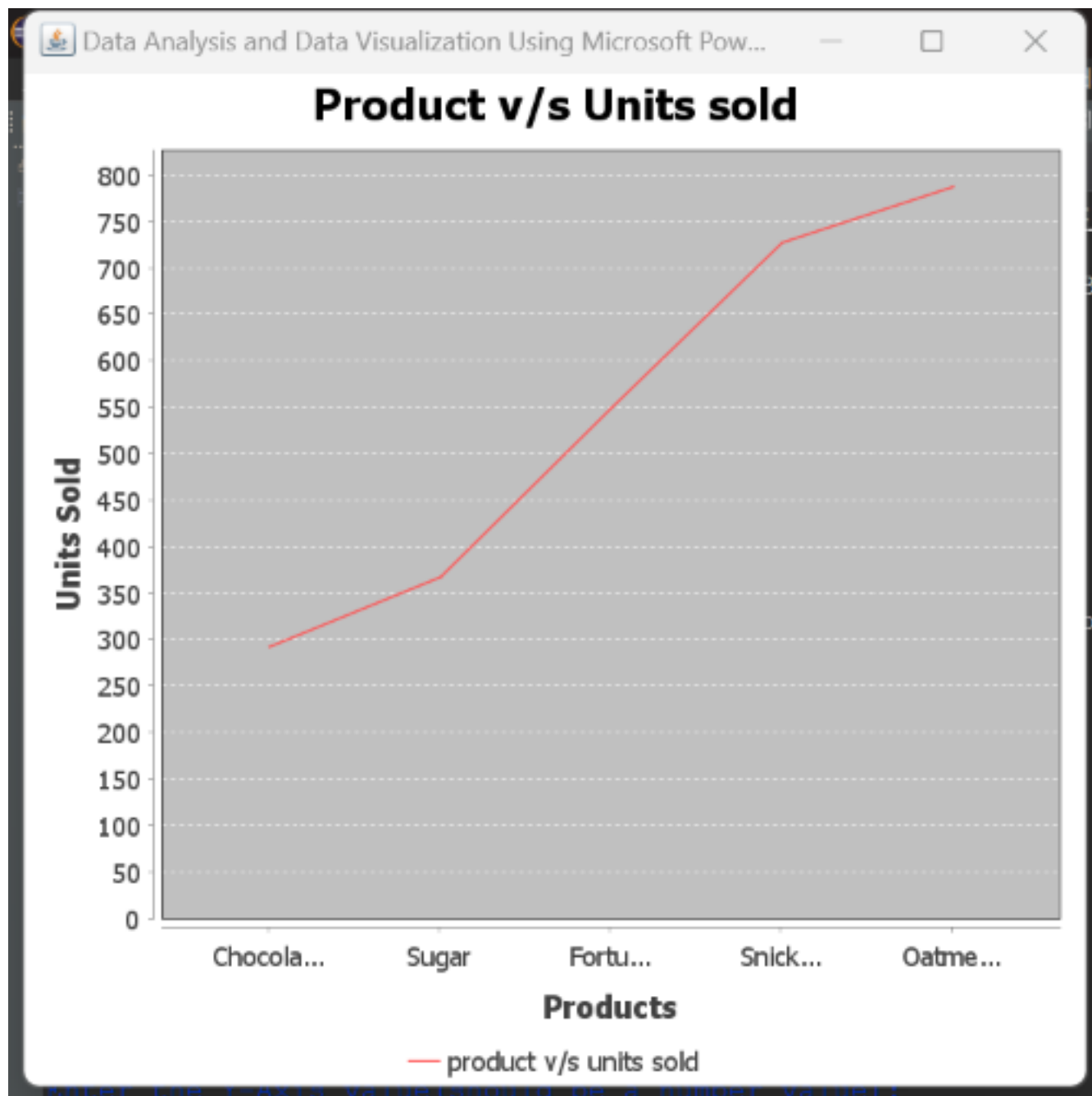
Data Results:

Conclusion:

Power BI can extract data from multiple sources and provide custom visualization. It also provides real-time analytics on both structured and unstructured data for different devices. The point to note here is that the Power BI solution architecture has made the process of creating reports fairly easy for non-technical users so that companies can save time, effort, and resources.