PERSONAL PORTFOLIO

Dashboards and visualizations created using Python or MS power BI, IBM Analytics, Google Analytics

Darshit Chauhan

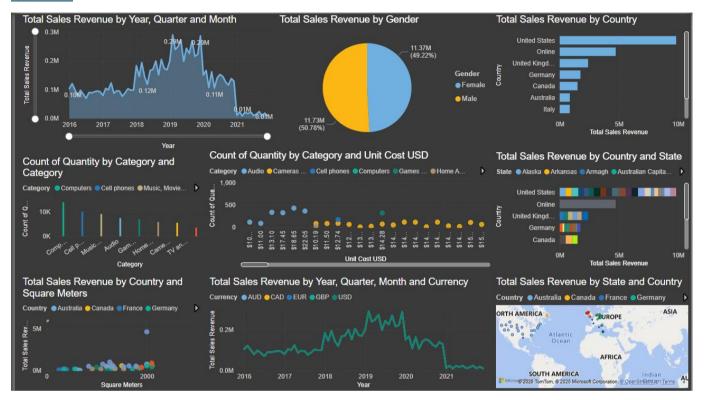
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1. Global Electronics retailer: (Multiple Table Dashboard using joins and DAX script in MS Power BI)

Dataset Source:

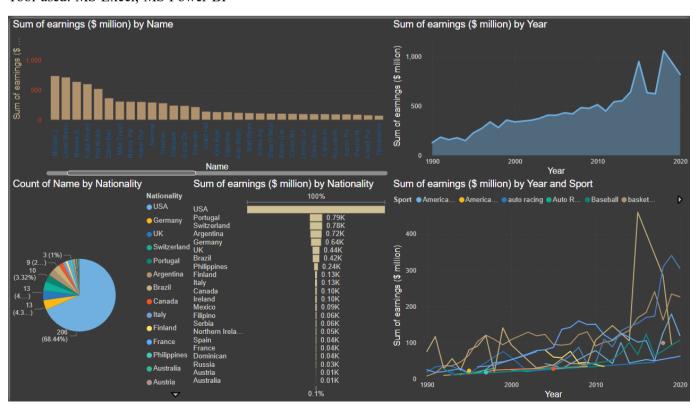
https://mavenanalytics.io/dataplayground?dataStructure=Multiple%20tables&order=date added%2Cdesc&page=2&pageSize=5



2. Forbes Highest Paid Athletes (1990-2020).

Dataset source: https://www.kaggle.com/datasets/parulpandey/forbes-highest-paid-athletes-19902019

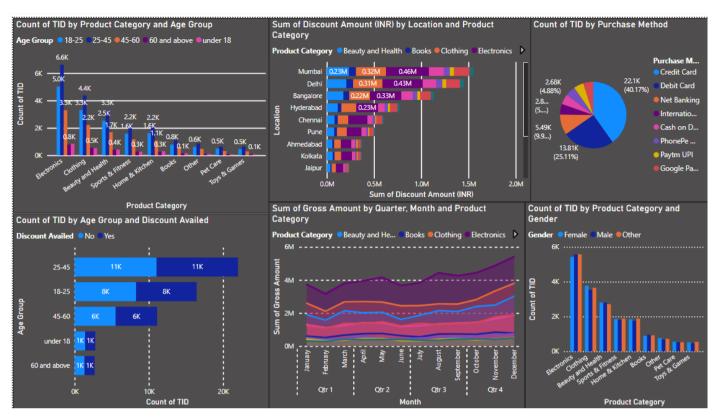
Tool used: MS Excel, MS Power BI



3. E-Commerce Data:

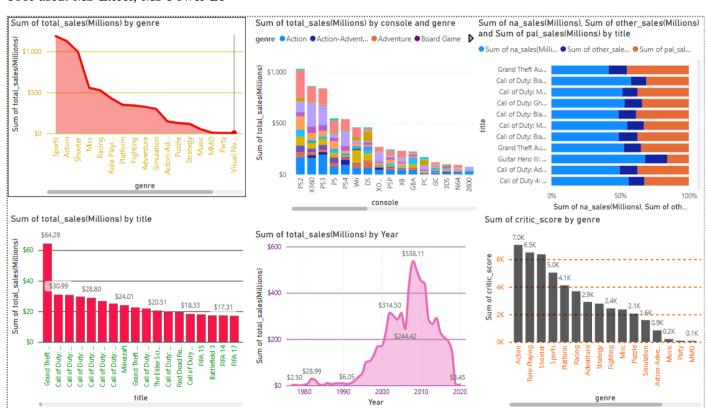
Dataset Source: https://www.kaggle.com/datasets/shrishtimanja/ecommerce-dataset-for-data-analysis

Tools Used: MS Power BI

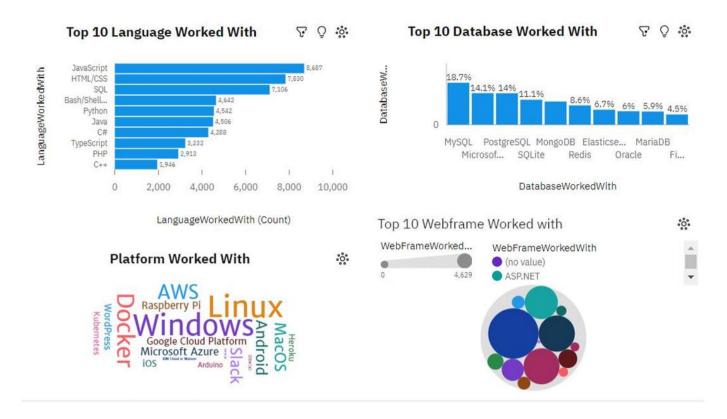


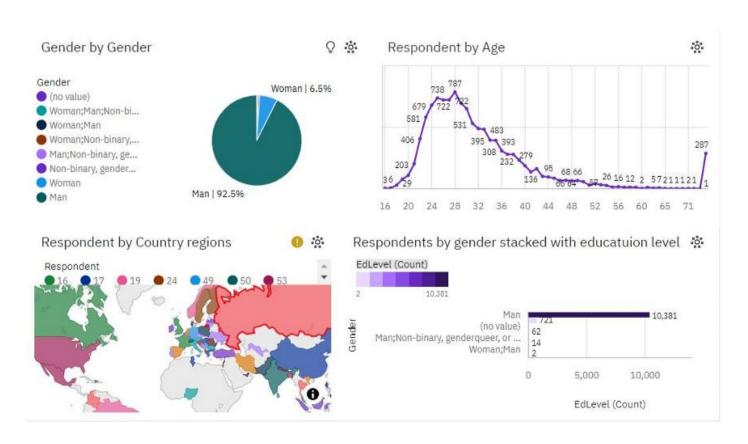
4. Video games sales.

Dataset source: https://mavenanalytics.io/dataplayground?dataStructure=Single%20table&order=date added%2Cdesc Tool used: MS Excel, MS Power BI



5. IBM Data Analytics course: Visualizations using Excel and IBM Cognos Analytics:



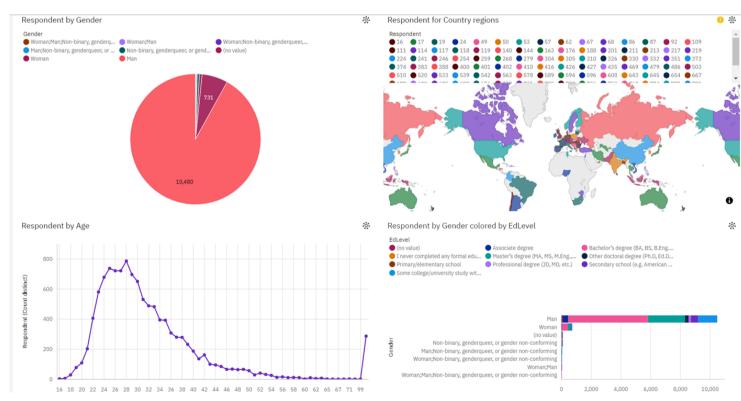


CERTIFICATION EARNED:



6. IBM Data Analytics course: CAPSTONE PROJECT.

DEMOGRAPHICS DASHBOARD:



CERTIFICATION EARNED:

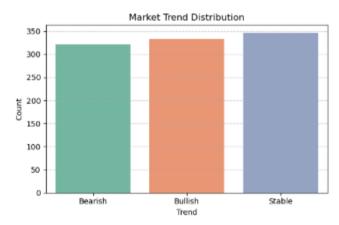


7. Stock Market simulation (2022-2024)

Dataset source: https://www.kaggle.com/datasets/samayashar/stock-market-simulation-dataset

Tool used: Python (pandas, matplotlib, seaborn, plotly)

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import plotly.express as px
import matplotlib.ticker as ticker
# Load the dataset
df = pd.read_excel("synthetic_stock_data.xlsx")
              --- 1. Trend Distribution (Improved) ------
plt.figure(figsize=(6, 4))
ax = sns.countplot(data=df, x='Trend', palette='Set2')
# Increase the number of ticks for accuracy
ax.yaxis.set_major_locator(ticker.MultipleLocator(50))
plt.title("Market Trend Distribution")
plt.xlabel("Trend")
plt.ylabel("Count")
plt.grid(axis='y', linestyle='--', alpha=0.7)
plt.tight_layout()
plt.show()
                - 2. Sector-wise Metrics
sector_summary = df.groupby('Sector').agg({
   'Close': 'mean',
'PE_Ratio': 'mean',
'Dividend_Yield': 'mean'
# CLose Price
fig1.update_layout(yaxis=dict(tickmode="linear", dtick=5)) # Increase y-axis tick intervals
fig1.show()
# PE Ratio
fig2.update_layout(yaxis=dict(tickmode="linear", dtick=2)) # Increase y-axis tick intervals
fig2.show()
# Dividend Yield
\label{fig3.update_layout(yaxis=dict(tickmode="linear", dtick=0.5))} \textit{\# Increase y-axis tick intervals}
fig3.show()
```



Average Close Price by Sector



Average PE Ratio by Sector





