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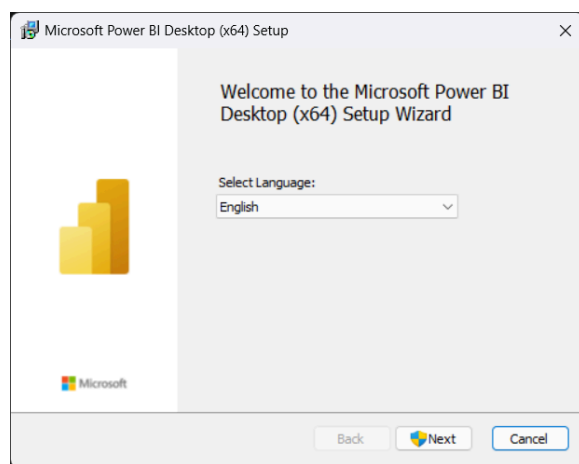
Microsoft Power BI Desktop

Microsoft Power BI Desktop is built for the analyst. It combines state-of-the-art interactive visualizations, with industry-leading data query and modeling built-in. Create and publish your reports to Power BI. Power BI Desktop helps you empower others with timely critical insights, anytime, anywhere.

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Select language English

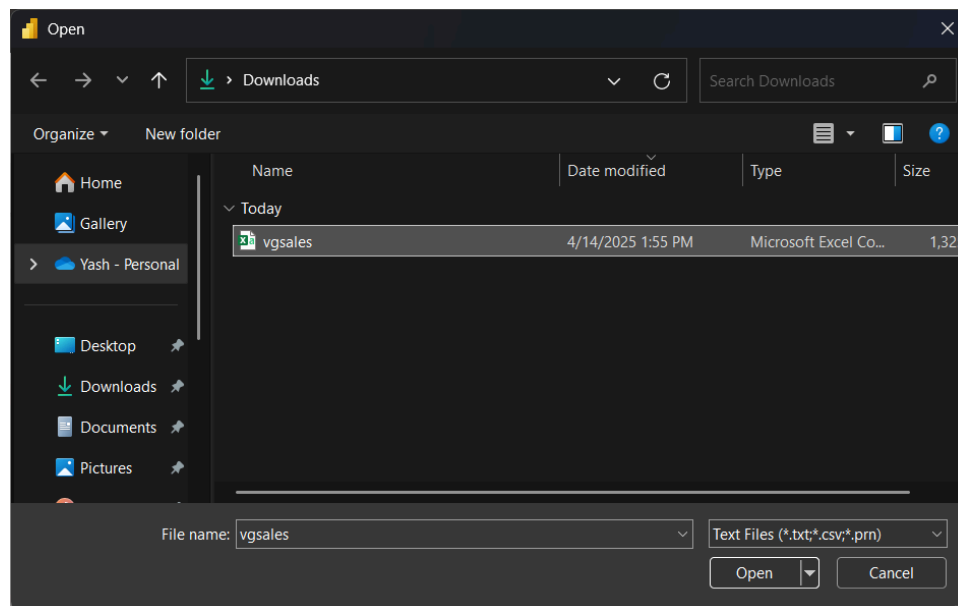
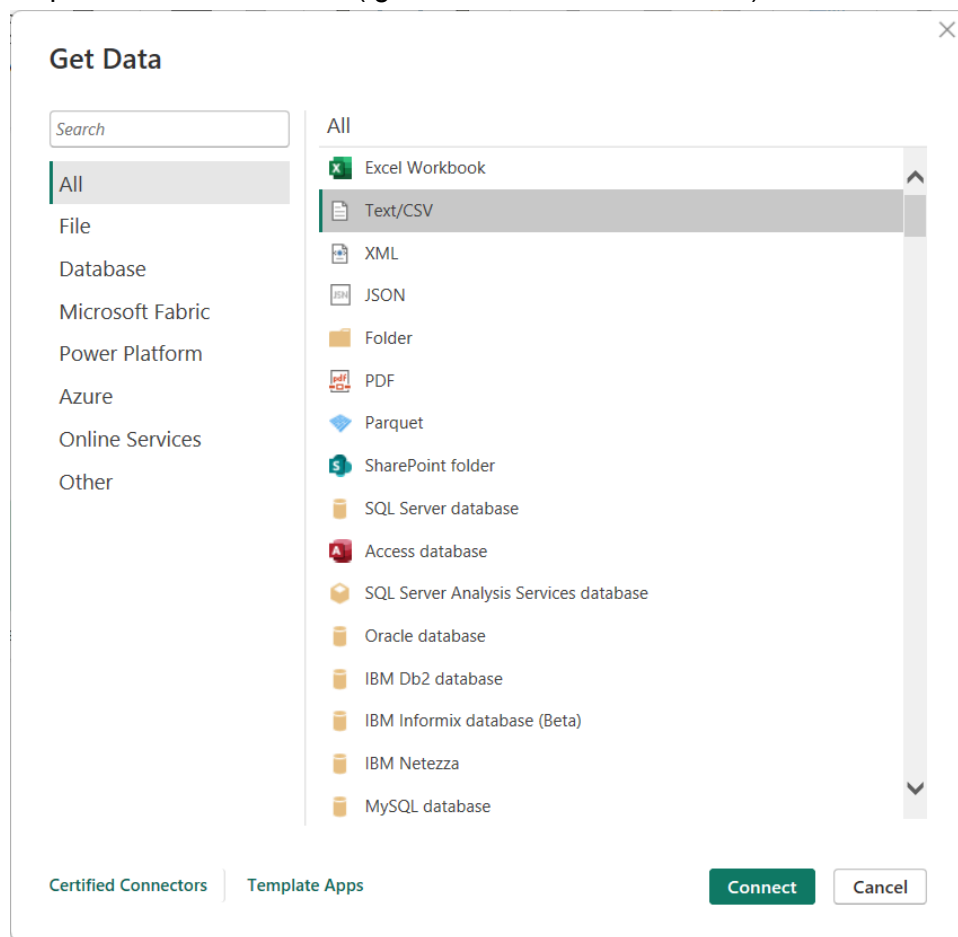
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Dataset link:

<https://www.kaggle.com/datasets/anandshaw2001/video-game-sales>

Step 1 : select csv dataset (get data from another source)



Now select transform to clean the data if not cleaned

1. Select the column
2. In the toolbar, go to **“Home”** → **“Remove Rows”** → **“Remove Blank Rows”**.

FileHomeTransformAdd ColumnViewToolsHelp

Close & ApplyNew SourceRecent SourcesEnter DataData sourcesParametersManage ParametersRefresh PreviewAdvanced EditorChoose ColumnsRemove ColumnsKeep RowsRemove RowsRemove Top RowsRemove Bottom RowsRemove Alternate RowsRemove DuplicatesRemove Blank RowsRemove Errors

Split ColumnGroup ByData Type TextUse First Row as HeadersReplace valuesMerge QueriesAppend QueriesCombine FilesText AnalyticsVisionAzure Machine Learning

Queries1fsTable.RemoveRowsWithErrors("Changed Type", ("Publ...vgtales

| | Genre | Publisher | EU_Sales | JP_Sales |
|------|--------------|-----------------------------------|----------|----------|
| 1026 | Sports | Electronic Arts | 0.66 | 0.66 |
| 1027 | Shooter | Activision | 0.68 | 0.68 |
| 1028 | Action | 989 Studios | 1.48 | 0.2 |
| 1029 | Action | Electronic Arts | 0.94 | 0.62 |
| 1030 | Action | Disney Interactive Studios | 1.15 | 0.44 |
| 1031 | Platform | Universal Interactive | 0.95 | 0.7 |
| 1032 | Action | Bethesda Softworks | 1.06 | 0.52 |
| 1033 | Action | Take-Two Interactive | 0.85 | 0.66 |
| 1034 | Shooter | Sony Computer Entertainment | 0.61 | 0.78 |
| 1035 | Role-Playing | Bethesda Softworks | 0.66 | 0.78 |
| 1036 | Shooter | Activision | 0.61 | 0.18 |
| 1037 | Simulation | Ubisoft | 0.7 | 0.83 |
| 1038 | Shooter | Activision | 0.41 | 0.98 |
| 1039 | Sports | Electronic Arts | 1.61 | 0.03 |
| 1040 | Role-Playing | Ubisoft | 0.8 | 0.21 |
| 1041 | Simulation | Electronic Arts | 0.39 | 0.87 |
| 1042 | Puzzle | Warner Bros. Interactive Enter... | 1.43 | 0.18 |
| 1043 | Platform | Activision | 0.99 | 0.64 |
| 1044 | Misc | Mindscape | 1.15 | 0.42 |
| 1045 | | | | |

TransformCombine

Query Settings

PROPERTIES

Namevgtales

ALL PROPERTIES

APPLIED STEPS

SourcePromoted HeadersChanged TypeRemoved Errors

11 COLUMNS, 999+ ROWSColumn profiling based on top 1000 rows

PREVIEW DOWNLOADED AT 2:03

After cleaning:

- Click **“Close & Apply”** (top-left corner of Power Query Editor)

DATA LOADED SUCCESSFULLY

Visualizations >> Data >>

Build visual

Values

Add data fields here

Drill through

Cross-report ☐ Off

Keep all filters ☒ On

Add drill-through fields here

Search

vgsales

- ☐ Σ EU_Sales
- ☐ Genre
- ☐ Σ Global_Sales
- ☐ Σ JP_Sales
- ☐ Σ NA_Sales
- ☐ Name
- ☐ Σ Other_Sales
- ☐ Platform
- ☐ Publisher
- ☐ Σ Rank
- ☐ Year

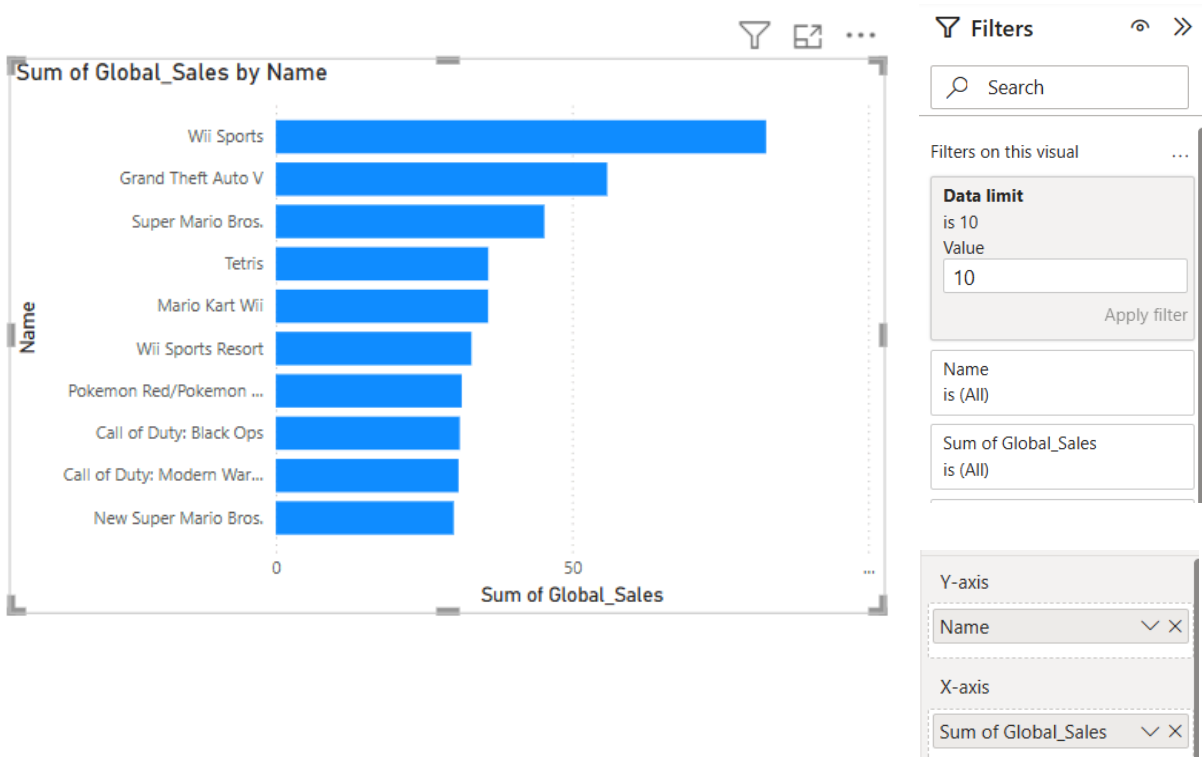
Let's get started with the visualization part:

1.Top 10 Games by Global Sales

Visual used : Bar chart of highest selling games globally

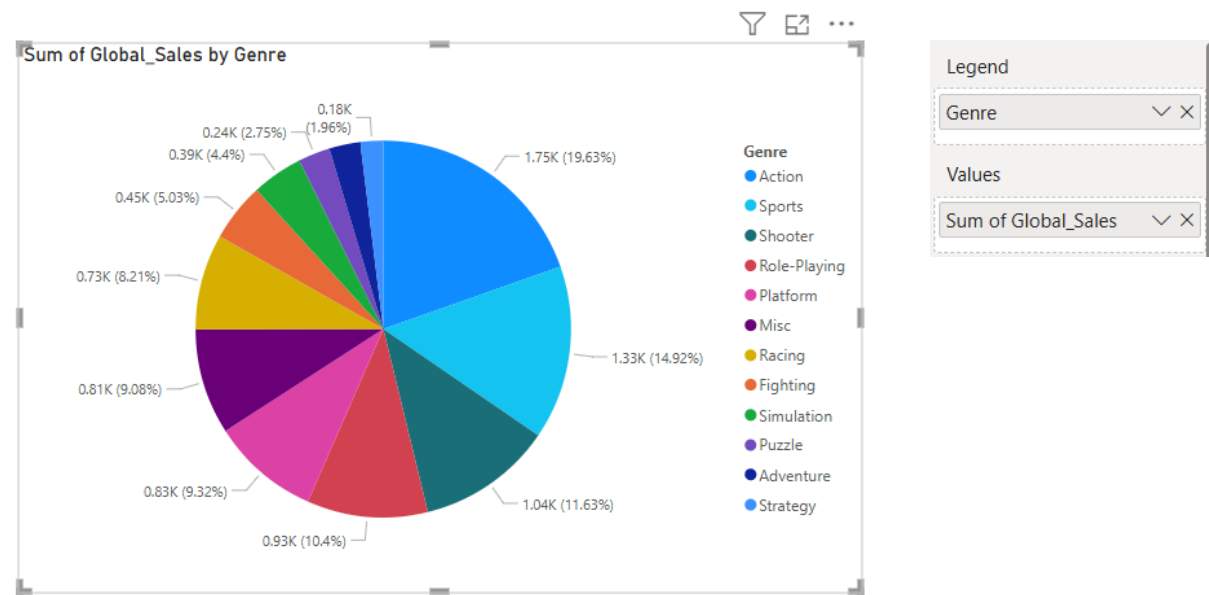
Steps:

1. From the Visualizations panel (right side), select a visual like “Stacked Bar Chart”.
2. Drag and drop fields into the appropriate areas:
3. Axis → Name or Genre or Platform
4. Values → Global_Sales (or any other region)
5. Click on the chart → In **Filters** pane, select Top N filter:



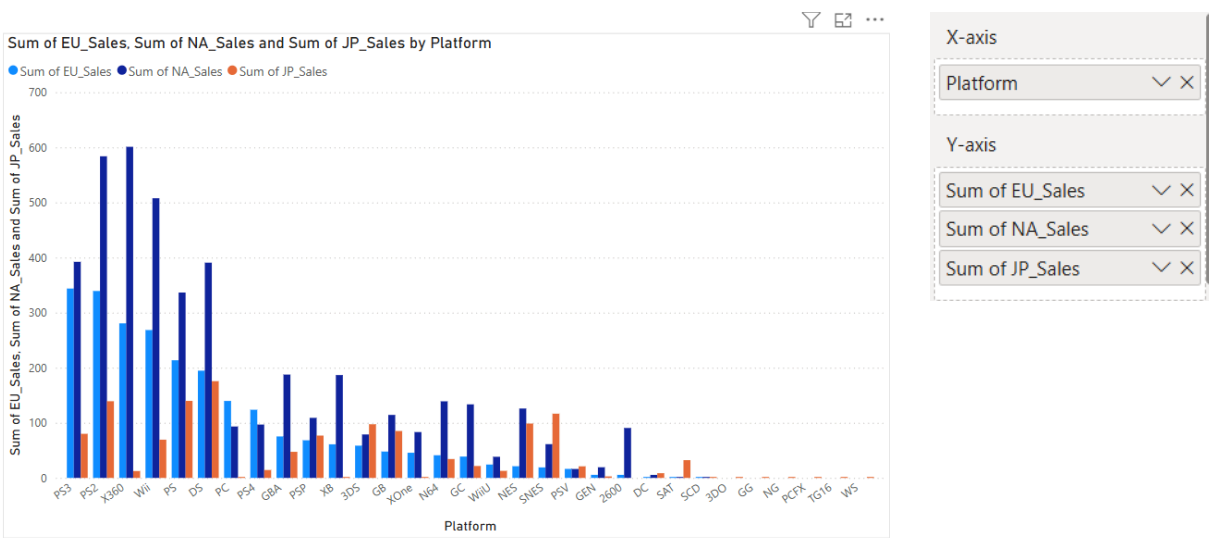
2. Sales by Genre

Visual used : Pie or bar chart showing total sales per genre



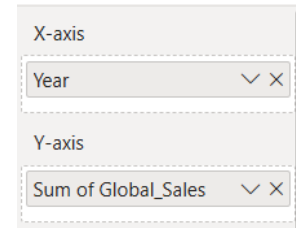
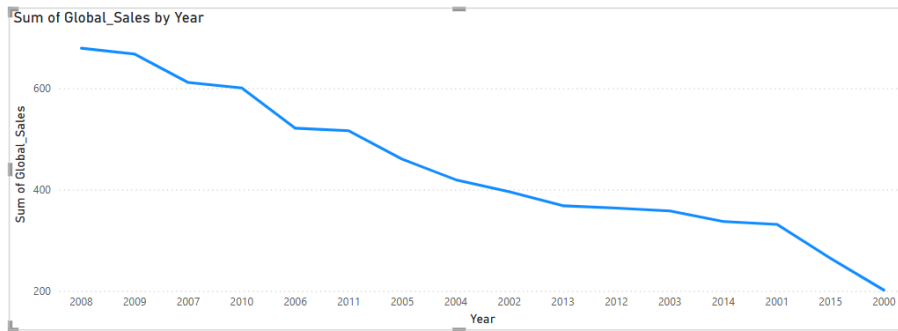
3. Platform-wise Sales Comparison

Visual used : Clustered column chart showing sales across platforms



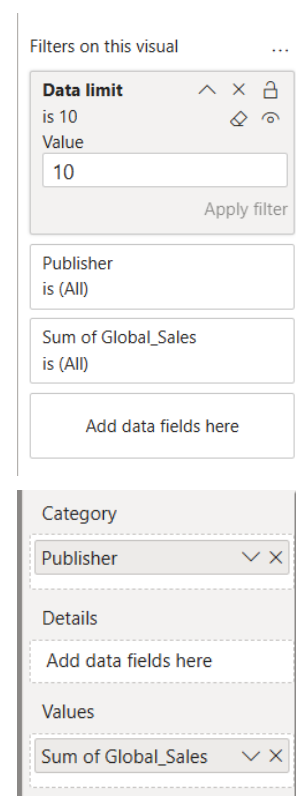
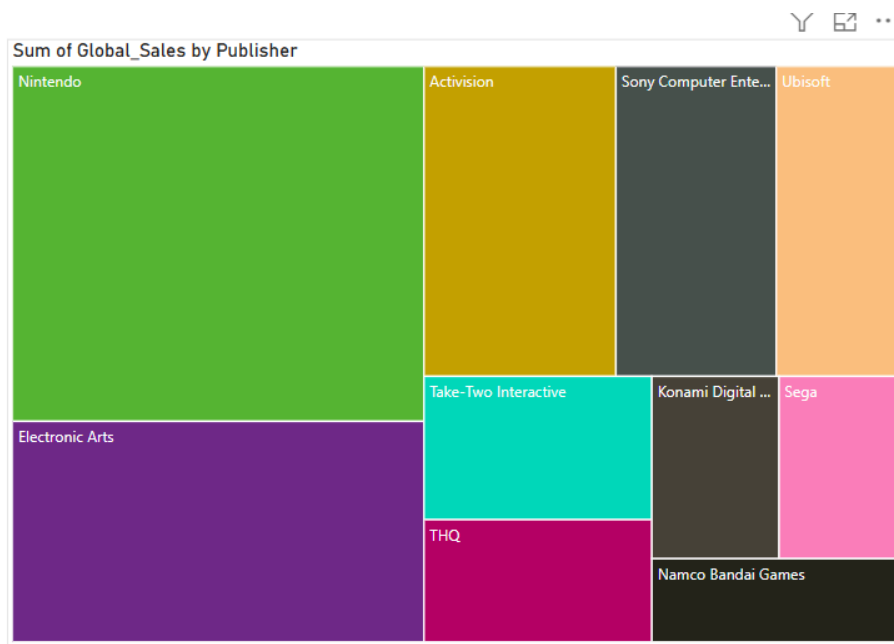
4. Sales Over the Years

Visual used : Line chart showing trends in game sales over time

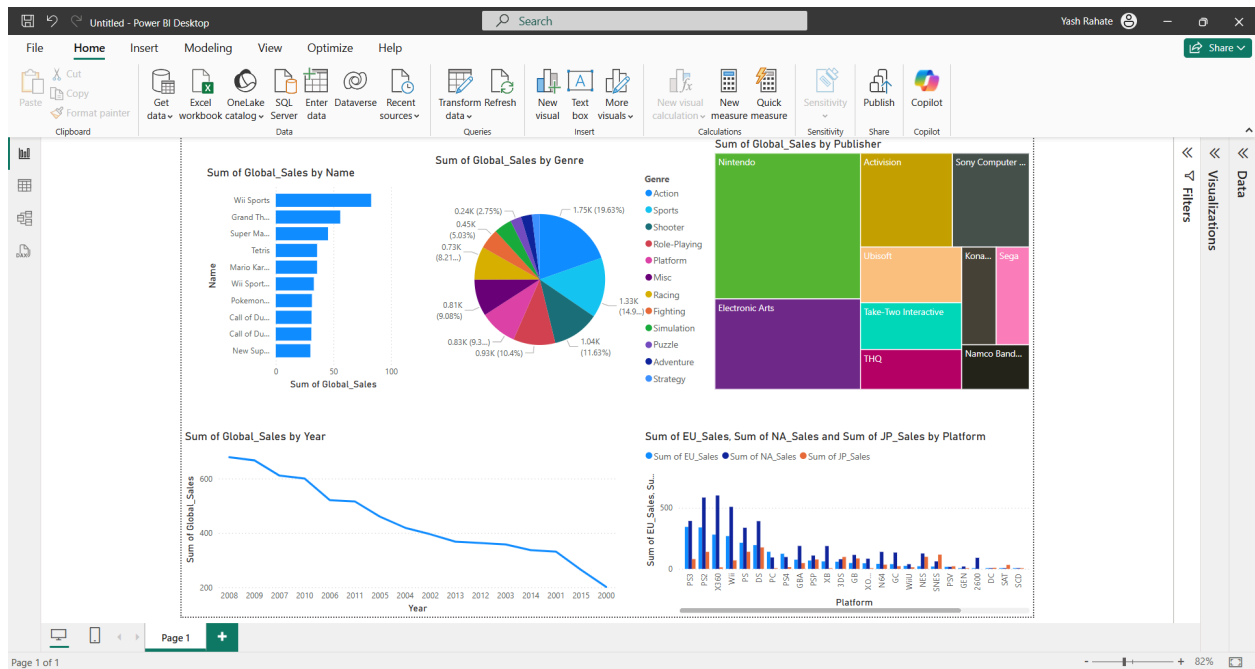


5. Publishers with Most Global Sales

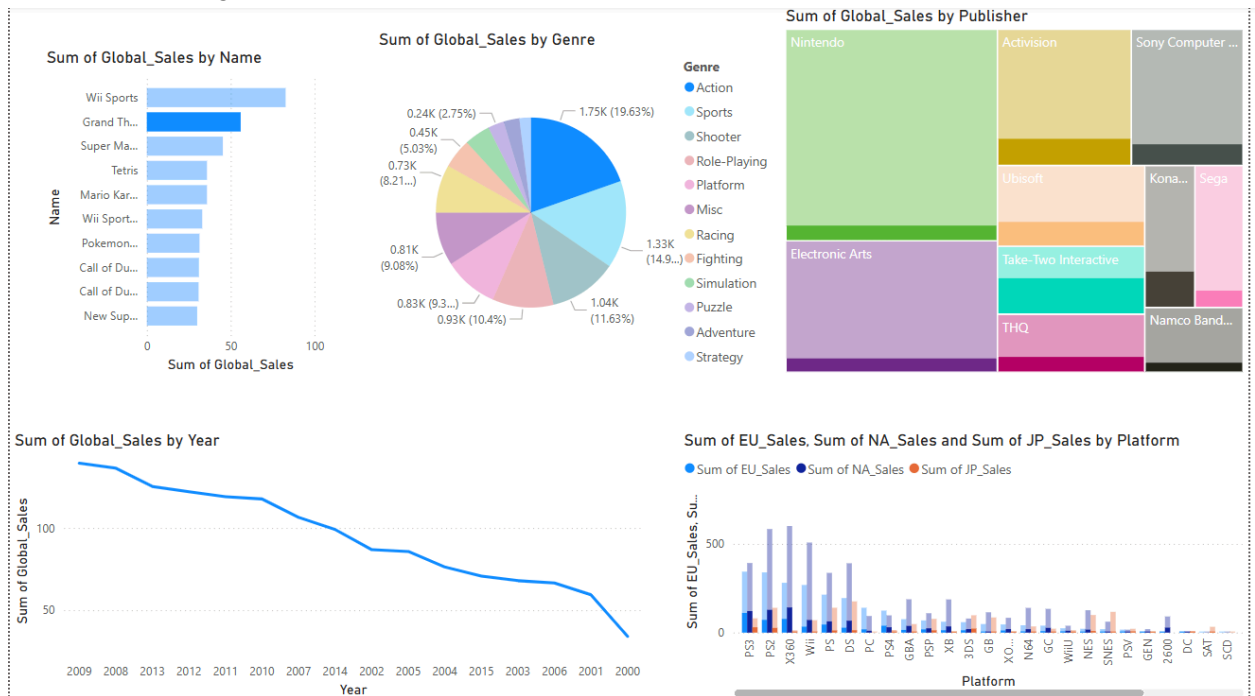
Visual used : Tree map or bar chart for top publishers



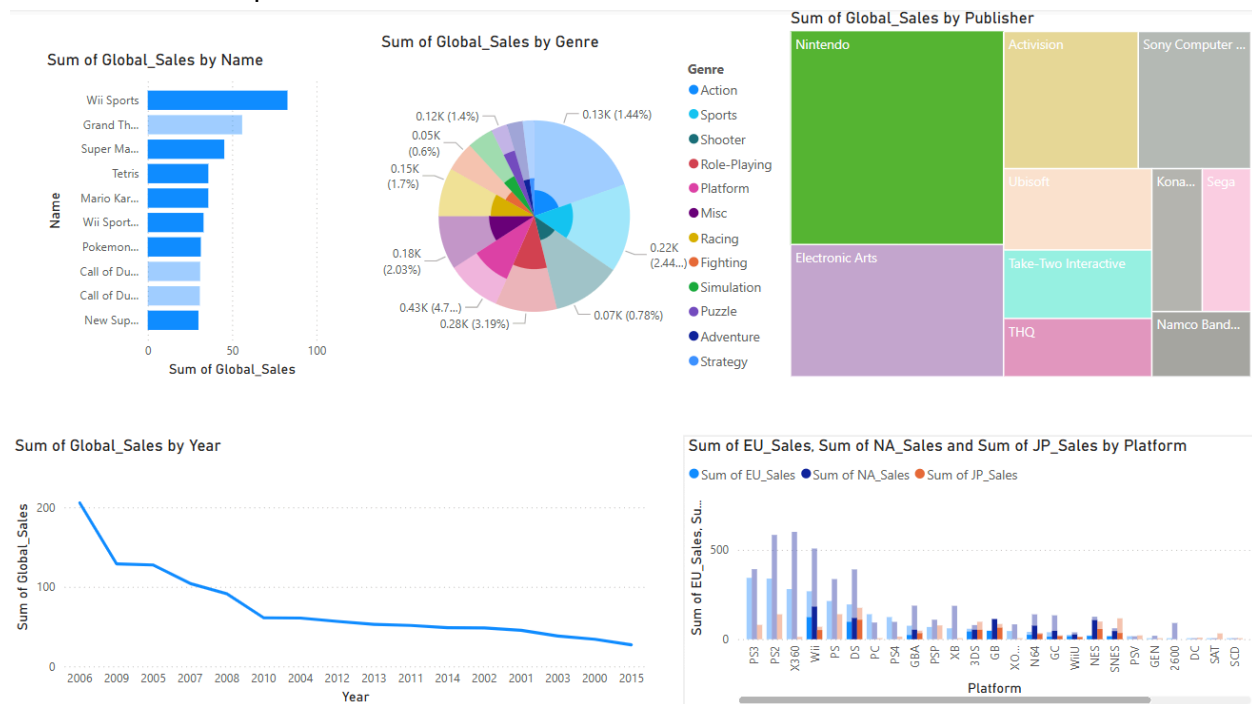
FINAL SCREEN:



Selected Action genre From pie chart :



Selected Nintendo publisher from Tree chart :



CONCLUSION:

In this experiment, we used **Power BI** to analyze a dataset containing video game sales data across various regions, platforms, and genres. The dataset included 16,598 records and 11 attributes such as game name, platform, year of release, genre, publisher, and sales across North America, Europe, Japan, Other regions, and globally.

We began by importing the CSV file into Power BI and used the **Power Query Editor** to clean the data by:

- **Removing null and missing values** to ensure consistency,
- **Transforming data types** for better analysis.

After cleaning the data, we created several visualizations to uncover patterns and insights. One of the key charts created was a **Stacked Bar Chart for Regional Sales Distribution**, which allowed us to visually compare sales across different regions such as NA, EU, JP, and Other.

The visualization revealed that **North America and Europe were the largest markets** for video games, while Japan and other regions had lower sales contributions. This regional breakdown provided a clear understanding of market dynamics.

Conclusion Summary:

Power BI enabled us to efficiently clean, transform, and visualize the dataset, making it easier to derive meaningful insights. This experiment demonstrated Power BI's effectiveness as a user-friendly and powerful tool for business intelligence and data analysis.