Nestle Business Services Lviv

Technical Task

Report

Task "DSH Power BI"

Prepared by the Candidate for

Development and Data Analytics Department

Spitkovska Vladyslava

Kyiv – 2024

Task list:

Place data xls-file in Sharepoint and import it into Power BI.

Create in Power BI tables for each zone (NAM,WE, APAC, SAMA) with Value and Quantity data (volumes).

- 2.1 Make sure your Values is not duplicated by product
- 2.2 Group values for Platform by 3 Categories (PC,PS,XBOX)
- 2.3 Add needed tables for Star Scheme (Calendar, Platform Categories, Zone)

3. Add Slicers for: Years (Calendar), Platform (Grouped), Genre

4. Add column with Value Share (%) and Quantity share

5. Create a column chart displaying Values per year on the same page.
- 5.1 Ensure the Year slicer does not affect the chart.
- 5.1 Add an average Value line to the chart.
- 5.2 Highlight years below the average value in red.
-

Create a matrix on a new page showing sales per Zone and Genre, with a slicer to switch between Value and Quantity KPI.

Calculate separate measures (Value and Volume) for 2000 year figures using DAX.
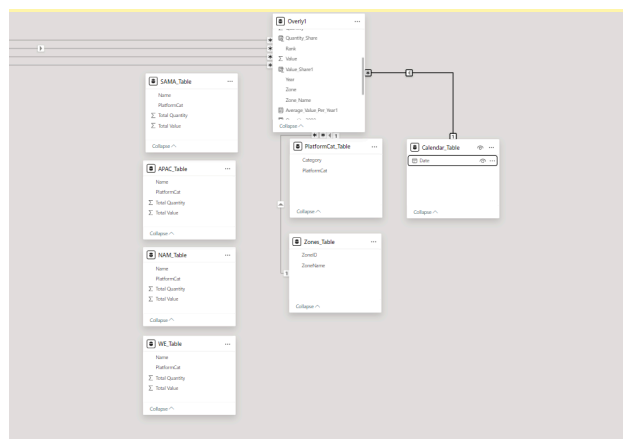
Create a bookmark allowing for switch between data till 2000 and data after 2000

Create visuals to show Top5 Products by Value for each Zone

Create in Power BI tables for each zone (NAM,WE, APAC, SAMA) with Value and Quantity data (volumes).

- 2.1 Make sure your Values is not duplicated by product
- 2.2 Group values for Platform by 3 Categories (PC,PS,XBOX)
- 2.3 Add needed tables for Star Scheme (Calendar, Platform Categories, Zones)

These tables were created by me, after which I set up relationships between the tables and the main table, Overly. Typically, I don't use this method in my work, but it is indeed very convenient when we want to display separate visualizations for multiple tables.

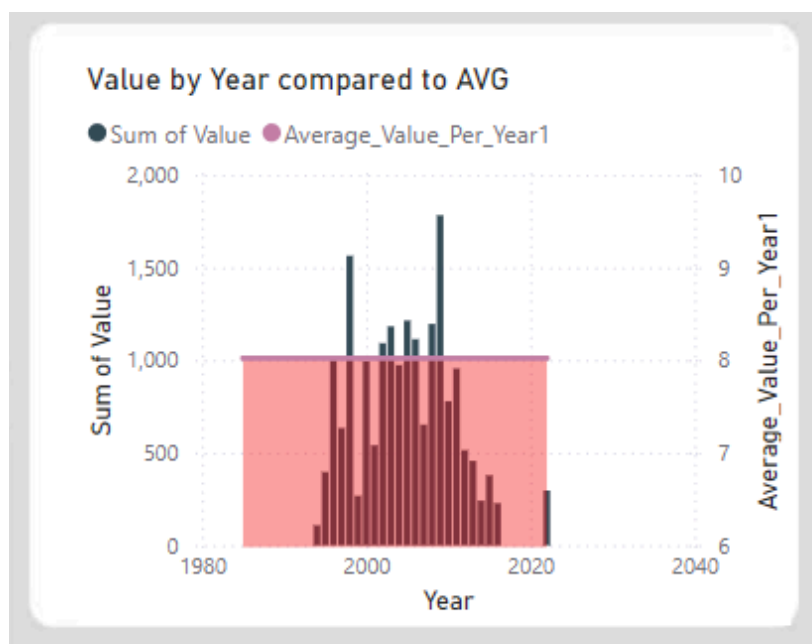Going forward, I will mostly use attributes from the main table directly.

3. Add Slicers for: Years (Calendar), Platform (Grouped), Genre

4. Add column with Value Share (%) and Quantity share

5. Create a column chart displaying Values per year on the same page.
- 5.1 Ensure the Year slicer does not affect the chart.
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- 5.2 Highlight years below the average value in red.

I also added a few more charts to the board for variety. Some of them are independent of certain slicers, while others are fully dependent.
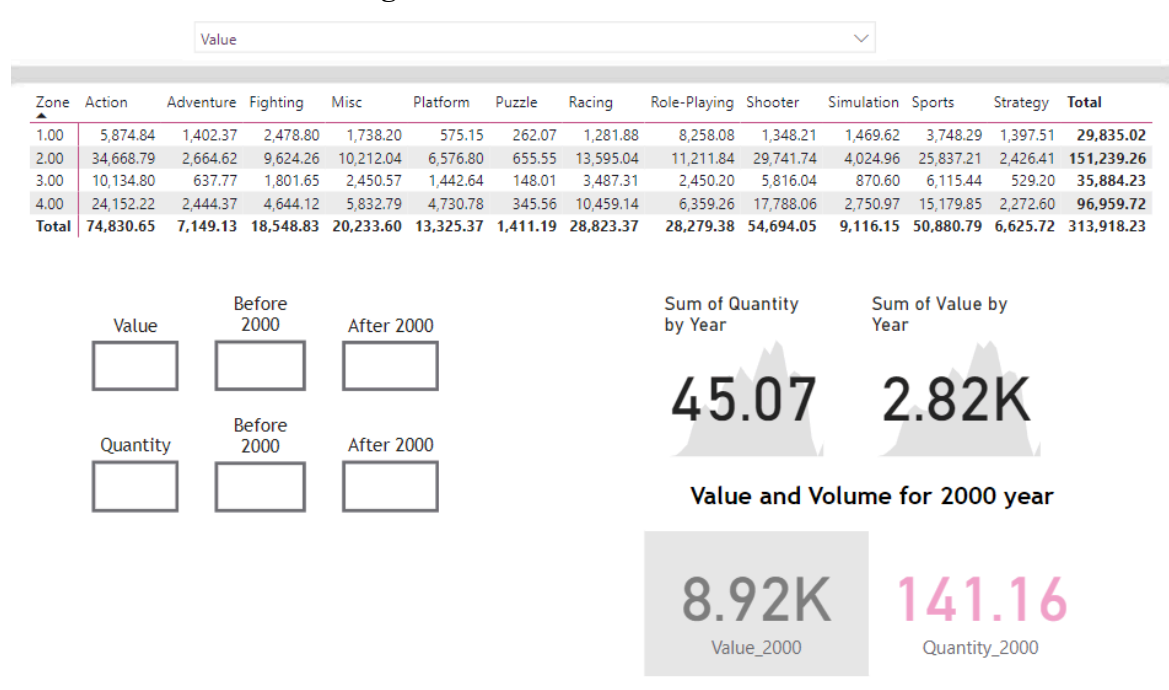
While working on this part of the task, I noticed some incorrect entries in the dataset. For example, when displaying company names (top 5 by sales quantity), one of the companies didn't even have a name. I deleted these entries from the dataset.

I tried to do the same for all entries where the game title had an unnatural appearance. So, I also attempted to delete all records where the game title started with a punctuation mark, but too many records were removed, so I had to revert everything back.

Create a matrix on a new page showing sales per Zone and Genre, with a slicer to switch between Value and Quantity KPI.
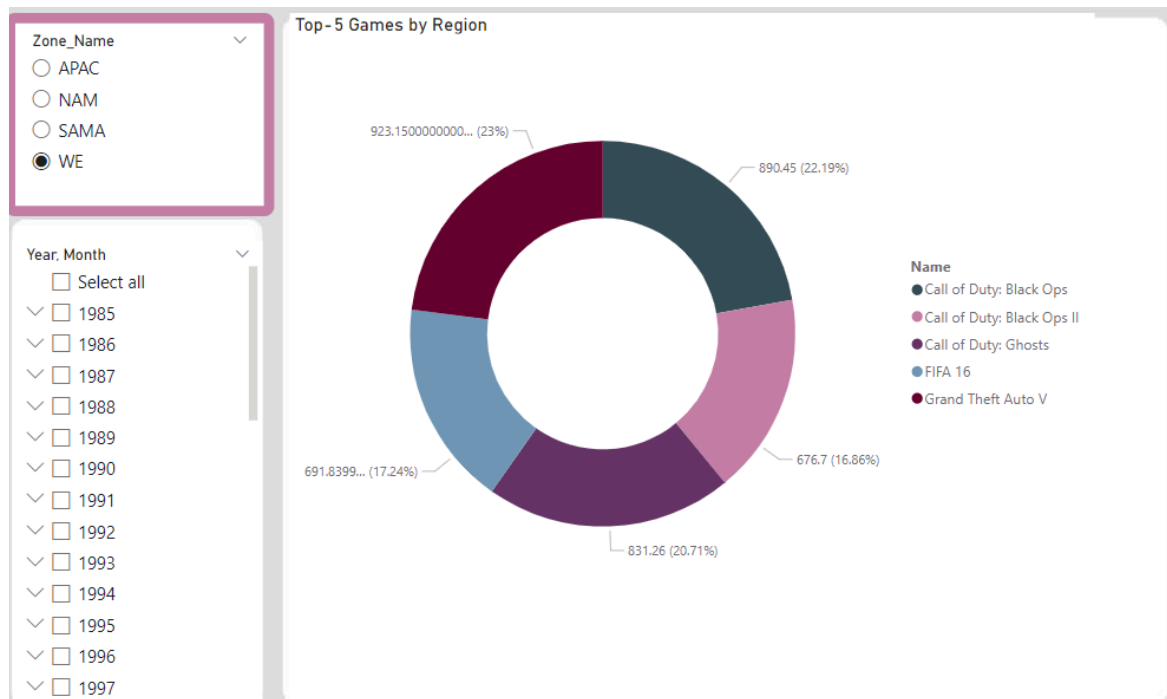**Calculate separate measures (Value and Volume) for 2000 year figures using DAX.**
Create a bookmark allowing for switch between data till 2000 and data after 2000

Value

Zone	Action	Adventure	Fighting	Misc	Platform	Puzzle	Racing	Role-Playing	Shooter	Simulation	Sports	Strategy	Total
1.00	5,874.84	1,402.37	2,478.80	1,738.20	575.15	262.07	1,281.88	8,258.08	1,348.21	1,469.62	3,748.29	1,397.51	29,835.02
2.00	34,668.79	2,664.62	9,624.26	10,212.04	6,576.80	655.55	13,595.04	11,211.84	29,741.74	4,024.96	25,837.21	2,426.41	151,239.26
3.00	10,134.80	637.77	1,801.65	2,450.57	1,442.64	148.01	3,487.31	2,450.20	5,816.04	870.60	6,115.44	529.20	35,884.23
4.00	24,152.22	2,444.37	4,644.12	5,832.79	4,730.78	345.56	10,459.14	6,359.26	17,788.06	2,750.97	15,179.85	2,272.60	96,959.72
Total	74,830.65	7,149.13	18,548.83	20,233.60	13,325.37	1,411.19	28,823.37	28,279.38	54,694.05	9,116.15	50,880.79	6,625.72	313,918.23

Value	Before 2000	After 2000

Quantity	Before 2000	After 2000

Sum of Quantity by Year

Sum of Value by Year

45.07   2.82K

Value and Volume for 2000 year

8.92K   141.16

Value_2000   Quantity_2000

Ctrl+Click on each button to use it.
(In case it doesn't work, try checking the Bookmarks section. Sometimes it lags on my laptop.)

Create visuals to show Top5 Products by Value for each Zone

Here I also added Slider for years to experiment with time measures.

Final Report Slides:

Nestle Technical Task Report (General data)

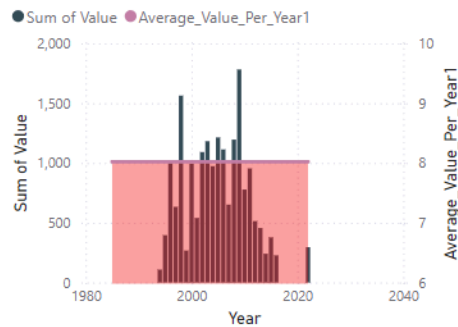**PlatformCat**

PC | XBOX

PS

Genre

Select all

Action

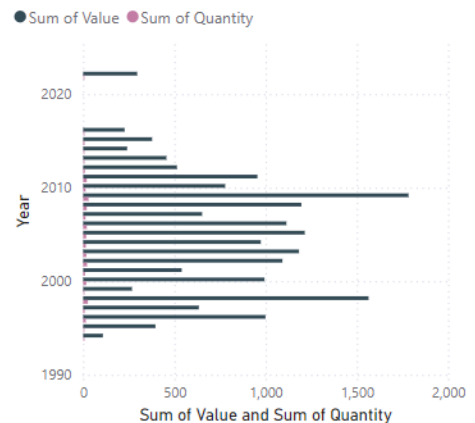Adventure

Fighting

Misc

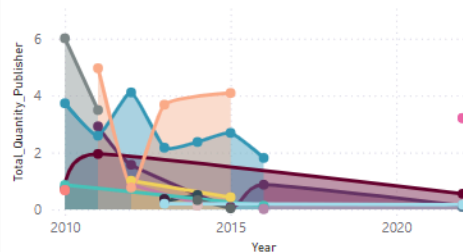Platform

Value by Year compared to AVG

● Sum of Value ● Average_Value_Per_Year1

Top-5 Publishers each year from 2020 according to them sales

Year

1/1/1985 | 1/1/2022

Value and Quantity amounts by Year

● Sum of Value ● Sum of Quantity

Nestle Technical Task Report (Matrix and KPI)

KPI

Value

Zone	Action	Adventure	Fighting	Misc	Platform	Puzzle	Racing	Role-Playing	Shooter	Simulation	Sports	Strategy	Total
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4.00	24,152.22	2,444.37	4,644.12	5,832.79	4,730.78	345.56	10,459.14	6,359.26	17,788.06	2,750.97	15,179.85	2,272.60	96,959.72
Total	74,830.65	7,149.13	18,548.83	20,233.60	13,325.37	1,411.19	28,823.37	28,279.38	54,694.05	9,116.15	50,880.79	6,625.72	313,918.23

Value

Before 2000 | After 2000

Quantity

Before 2000 | After 2000

Sum of Quantity by Year

45.07

Sum of Value by Year

2.82K

Value and Volume for 2000 year

8.92K
Value_2000

141.16
Quantity_2000

Nestle Technical Task Report (Top-5 Games by Region)

Zone_Name
- ○ APAC
- ○ NAM
- ○ SAMA
- ◉ WE

Year, Month
- ☐ Select all
- ☐ 1985
- ☐ 1986
- ☐ 1987
- ☐ 1988
- ☐ 1989
- ☐ 1990
- ☐ 1991
- ☐ 1992
- ☐ 1993
- ☐ 1994
- ☐ 1995
- ☐ 1996
- ☐ 1997

Top-5 Games by Region

923.1500000000... (23%)
890.45 (22.19%)
676.7 (16.86%)
831.26 (20.71%)
691.8399... (17.24%)

Name
- ● Call of Duty: Black Ops
- ● Call of Duty: Black Ops II
- ● Call of Duty: Ghosts
- ● FIFA 16
- ● Grand Theft Auto V