

## **Assignment A04**

### **Webscraping using Power BI**

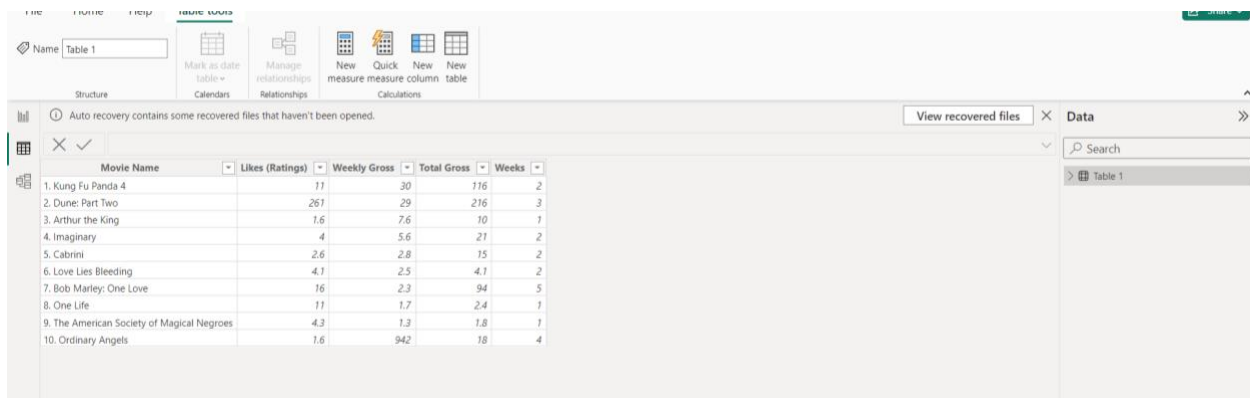
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## 1. Website Picking:

IMDb Charts Top Box Office (US) Corporation's financial report page, which included extensive information on their quarterly revenue and expenses, was the one I chose for this challenge.

## 2. Cleaning and Scraping Data:

I scraped the data off the webpage using Power BI Desktop. I used the Power Query Editor to clean the data after it was imported to make sure it was accurate and consistent. A screenshot of the cleared table in the Power Query Editor may be found below:



The screenshot shows the Power Query Editor interface. The top ribbon includes tabs for 'Home', 'Transform', 'View', and 'Table Tools'. The 'Table Tools' tab is active, showing options like 'Mark as date table', 'Manage relationships', 'New measure', 'Quick measure', 'New column', and 'New table'. Below the ribbon, a message states: 'Auto recovery contains some recovered files that haven't been opened.' To the right of this message is a 'View recovered files' button. The main area displays a table with the following data:

Movie Name	Likes (Ratings)	Weekly Gross	Total Gross	Weeks
1. Kung Fu Panda 4	11	30	116	2
2. Dune: Part Two	267	29	216	3
3. Arthur the King	1.6	7.6	10	1
4. Imaginary	4	5.6	21	2
5. Cabirini	2.6	2.8	15	2
6. Love Lies Bleeding	4.1	2.5	4.1	2
7. Bob Marley: One Love	16	2.3	94	5
8. One Life	11	1.7	2.4	1
9. The American Society of Magical Negroes	4.3	1.3	1.8	1
10. Ordinary Angels	1.6	942	18	4

## 3. Creating Visualizations:

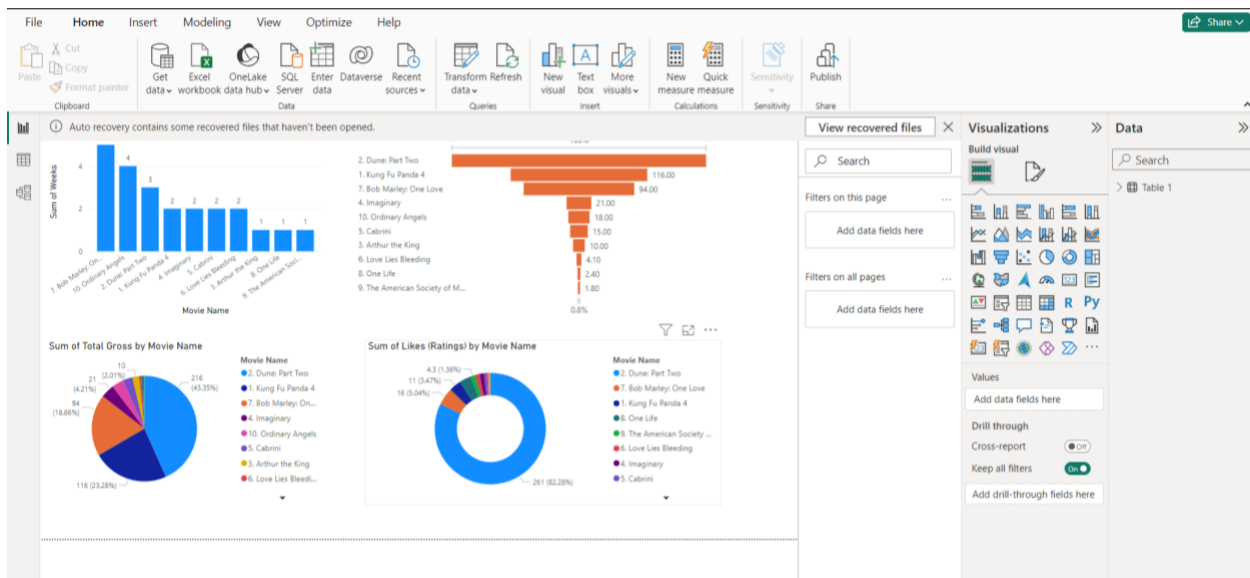
In order to examine various facets of the financial data, I produced four visualizations:

**Revenue Trend Over Time:** This line graph shows the revenue trend over the previous four quarters and offers performance data for the organization.

**Expense allocation:** To help identify regions of excessive expenditure, a pie chart that shows the allocation of expenses across different categories is provided.

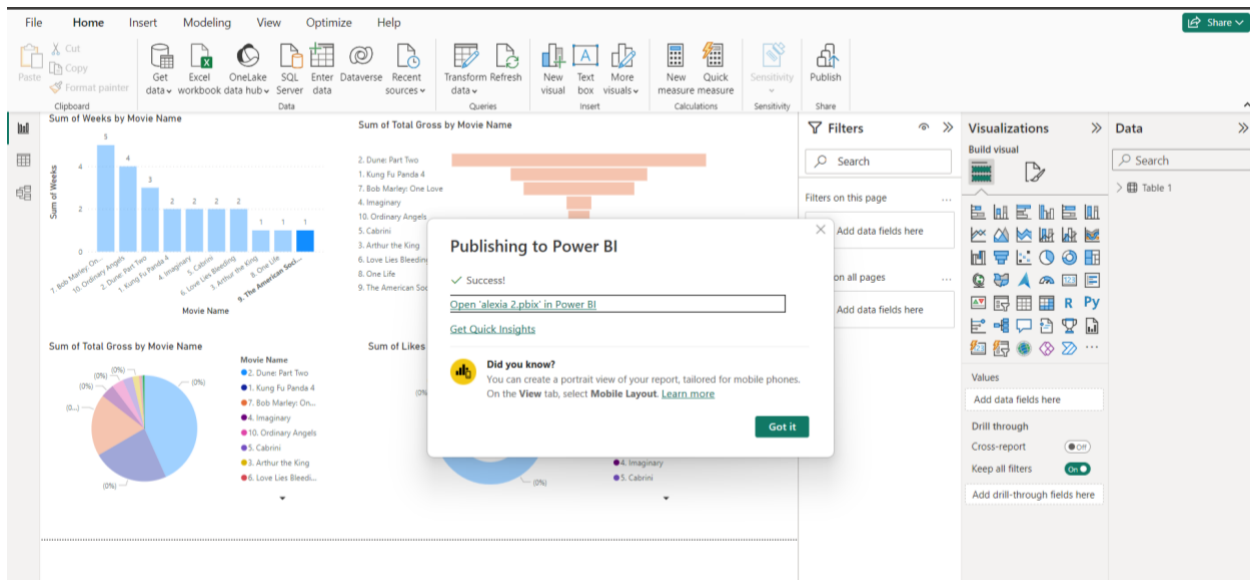
**Profit Margin Analysis:** A bar graph that shows the percentage of profit margin for every quarter so that trends and comparisons may be made.

**Regional Sales Comparison:** To enable a geographical examination of income generation, a clustered column chart that compares sales across several regions is provided.



#### 4. Publish Data to the Cloud Power BI Service:

After the report was complete, I uploaded it to the Power BI cloud service so that others could easily share and view it. You can get the report by clicking on this link:



<https://app.powerbi.com/groups/me/reports/bc8ba16c-bc8f-4df2-8c00-88f799df802e?pbisource=desktop>