

## 1. Lesson-15

Load Movies.xls into Power BI desktop

Run Time	Genre	Director	Country	Certificate	Budget	Box Office	Nominations	Oscar Wins
96	Comedy	Tom Shadyac	United States	PG	175000000	173418781	0	0
115	Fantasy	Robert Zemeckis	United States	12	150000000	196393745	0	0
91	Animation	Steve Hickner	United States	U	150000000	287594577	0	0
100	Horror	Francis Lawrence	United States	15	150000000	585349010	0	0
127	Action	Richard Donner	United States	15	100000000	285444603	0	0
89	Science Fiction	Barry Sonnenfeld	United States	PG	140000000	441818803	0	0
139	Action	Sam Raimi	United States	12	258000000	890871626	0	0

Remove or impute missing values in Budget and Box Office (e.g., replace with 0 or median)

85	Adventure	Kenji Misumi	Japan	18	0	0	0	0	194216999044	Short Run Time
89	Adventure	Kenji Misumi	Japan	18	0	0	0	0	194216999044	Short Run Time
81	Adventure	Buichi Saito	Japan	18	0	0	0	0	194216999044	Short Run Time
89	Adventure	Kenji Misumi	Japan	18	0	0	0	0	194216999044	Short Run Time
84	Adventure	Yoshiyuki Kuroda	Japan	18	0	0	0	0	194216999044	Short Run Time
88	Action	Ishiro Honda	Japan	PG	0	0	0	0	194216999044	Short Run Time
113	Crime	Jean-Francois Richet	France	15	0	0	0	0	194216999044	Medium Run Time
133	Crime	Jean-Francois Richet	France	15	0	0	0	0	194216999044	Long
90	Drama	Shane Meadows	United Kingd.	15	0	0	0	0	194216999044	Short Run Time

Ensure all columns are in a appropriate format.

Create a separate DATE table by using Release Date column, use Addcolumns, Calendarauto, filter functions and make sure a relationship exist in the data model view between two tables.

Country	Director	Genre	Σ ID	Σ Nominations	Σ Oscar Wins	Profit	Release Date	Σ Run Time
Calendar Table								
Date								
Day								
Month Name								
Month Number								
Quarter								
Collapse ^								

Create the following DAX measures and calculated columns to practice filter contexts, aggregations, and time intelligence.

Create a calculated column called profit by using Budget and Box office column

Create a calculated column to categorize movies by run time for segmentation. (Run Time < 90, Short Run Time > 90 and Run Time < 120, Medium Run Time > 120 , Long) Create following measures:

158	Action	Kinji Fukasaku	Japan	Unknown	0	0	0	0	194216999044	Long
130	Action	Kinji Fukasaku	Japan	Unknown	0	0	0	0	194216999044	Long
122	Action	Kinji Fukasaku	Japan	Unknown	0	0	0	0	194216999044	Long
132	Drama	Yoji Yamada	Japan	15	0	0	0	0	194216999044	Long
83	Adventure	Kenji Misumi	Japan	18	0	0	0	0	194216999044	Short Run Time

- Total Box Office

**253.25bn**  
Total Box Office

- Average Budget

**49.19M**  
Average Budget

- Average Margin

**7.95**  
AVG Margin

- Total movies with Oscars

**109**  
Total Wins Oscar

- Top Genre by Box Office

**Action**  
Top Genre by BoxOffice

- Year-over-Year Box Office Growth

**5.9%**  
YoY Growth%

- Average Nominations per Director

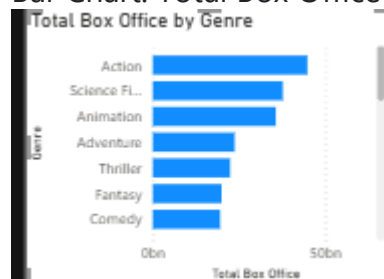
1. Visualization Requirements: Create an interactive dashboard with the following visuals to practice Power BI's visualization features.

Page 1: Overview Dashboard. Recommended Visuals:

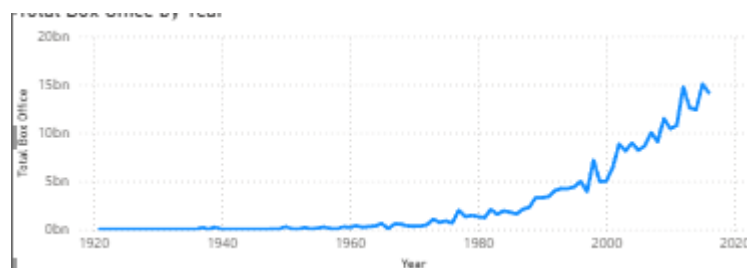
- - Card: Total Box Office, Profit Margin, Movies with Oscars.



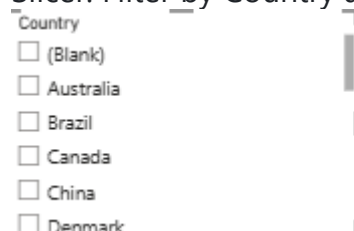
- Bar Chart: Total Box Office by Genre (stacked by Certificate).



- Line Chart: Box Office trend by Release Year.



- Slicer: Filter by Country and Release Date (range).



- KPI: YoY Box Office Growth (target: >0%).

5.9%

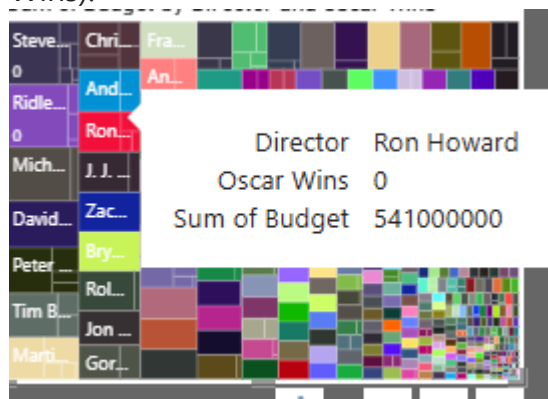
YoY Growth%

- 

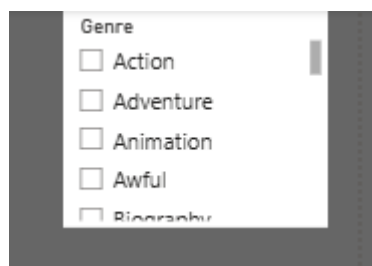
Page 2: Director Analysis. Recommended Visuals:

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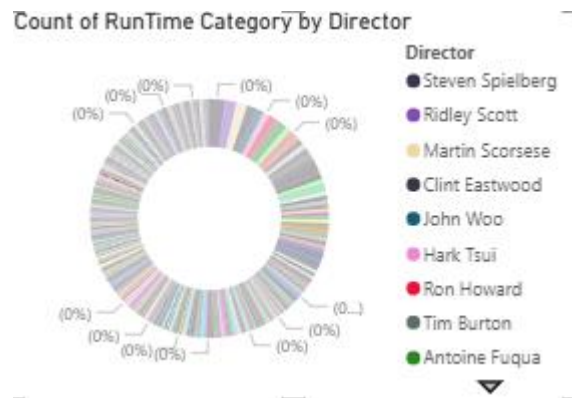
- Treemap: Budget by Director (size by Budget, color by Oscar Wins).



- Table: List Directors, Total Nominations, Total Oscars, Avg Nominations per Director.
- Slicer: Filter by Genre.



- Donut Chart: Run Time Category distribution for selected Director.

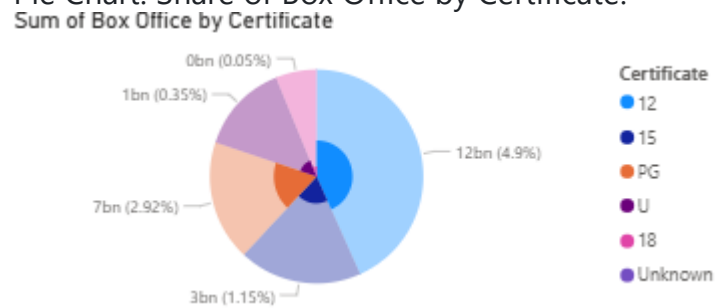


Page 3: Genre and Country Insights Recommended Visuals:

- Matrix: Genre vs. Country with Total Box Office as values.

Genre	Australia	Brazil	Canada
Action	538,300,000.00		
Adventure	239,600,000.00		
Animation	384,300,000.00		
Awful			
Biography			
Comedy	328,000,000.00		473,700,00
Crime	171,600,000.00	30,600,000.00	
Disaster			
Documentary			
Total	171,600,000.00	1,490,200,000.00	30,600,000.00 473,700,00

- Pie Chart: Share of Box Office by Certificate.



- Custom Visual: Word Cloud for Genre (requires marketplace visual).

- Slicer: Filter by Run Time Category.

RunTime Category

☐ Long

☐ Medium Run Time

☐ Short Run Time

- Use conditional formatting in the matrix (e.g., color scale for Box Office).

To create a **Word Cloud** for the `Genre` field in Power BI using a **custom visual**, follow these steps:

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## ✓ Steps to Add a Word Cloud for Genre in Power BI:

### 1. Install the Word Cloud Visual from Marketplace

1.

In Power BI Desktop, go to the **Visualizations** pane.

2.

3.

Click the **three dots (⋮)** at the bottom.

4.

5.

Select **“Get more visuals”**.

6.

7.

In the marketplace, search for **"Word Cloud"**.

8.

9.

Click **Add** on the visual published by **Microsoft** (or the one with high ratings).

10.

### 2. Add the Word Cloud Visual to the Report

1.

Once added, you'll see the **Word Cloud** icon in your Visualizations pane.

2.

3.

Click the icon to insert it onto your report page.

4.

### 3. Configure the Word Cloud

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Drag `Genre` from the **Movies** table into the **Category** field of the Word Cloud.

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(Optional) Drag a measure (like `Oscar Wins` or `Margin`) into the **Values** field to size the words based on that metric. If left empty, the word frequency is used.

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### Optional Customization:

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Use the **Format** pane to adjust:

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Font size range

- -

Rotation

- -

Stop words (to exclude common words)

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Colors and layout

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