Highest Grossing Movies

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Overview

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a. Data Resources

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Business Problem

The goal of this project is to analyze data needed by Microsoft to help them creating a movie studio and produce a movie that hits the box office.

Problem

- Create a movie studio.

- Produce a movie hits the box office

Solution

- Calculate the most effective factors on box office profits.

Data

The data is collected from the most popular websites for Movies rating.

➢ **IMdb**

146,144 films   from (2010-2021)

➢ **Rottentomatoes**

1560 films from (1971 -2018)

➢ **Box Office Mojo**

3387   films   from   (1970 - 2018)

➢ **The numbers**

5782 films   from   (1915-2020)

➢ **Themoviedb**

26516   films   from   (1930-2020)

Data Analysis

Measure Movie's Grossing by testing 3 factors affecting the movie's revenues.

Estimation of box office profits per movie's genre.

Relationship between Movie's Production budget and Movies grossing.

Box office profits based on Movie's release month.

Methods

➢ Preparing the data (load,clean,join).

➢ Using statistical calculation to determine the factors can increase the box office revenues.
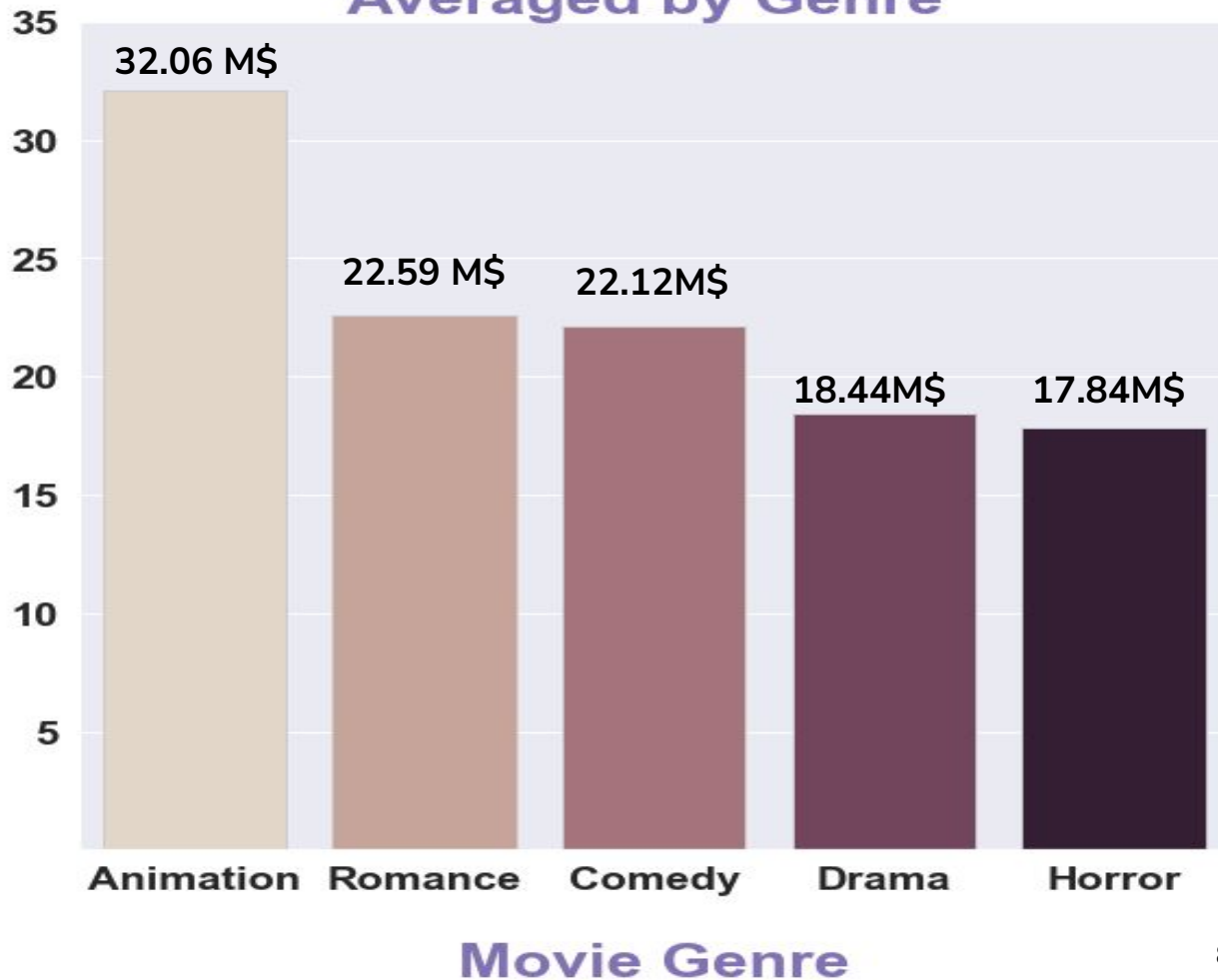
➢ Visual analysis to interpret the statistical

Preparing → **Statistical calculation** → **Visual Analysis**

Results

LET'S REVIEW SOME CONCEPTS

Box office profits for each Genre

Movies Production budget

Movies Grossing

Movies release month
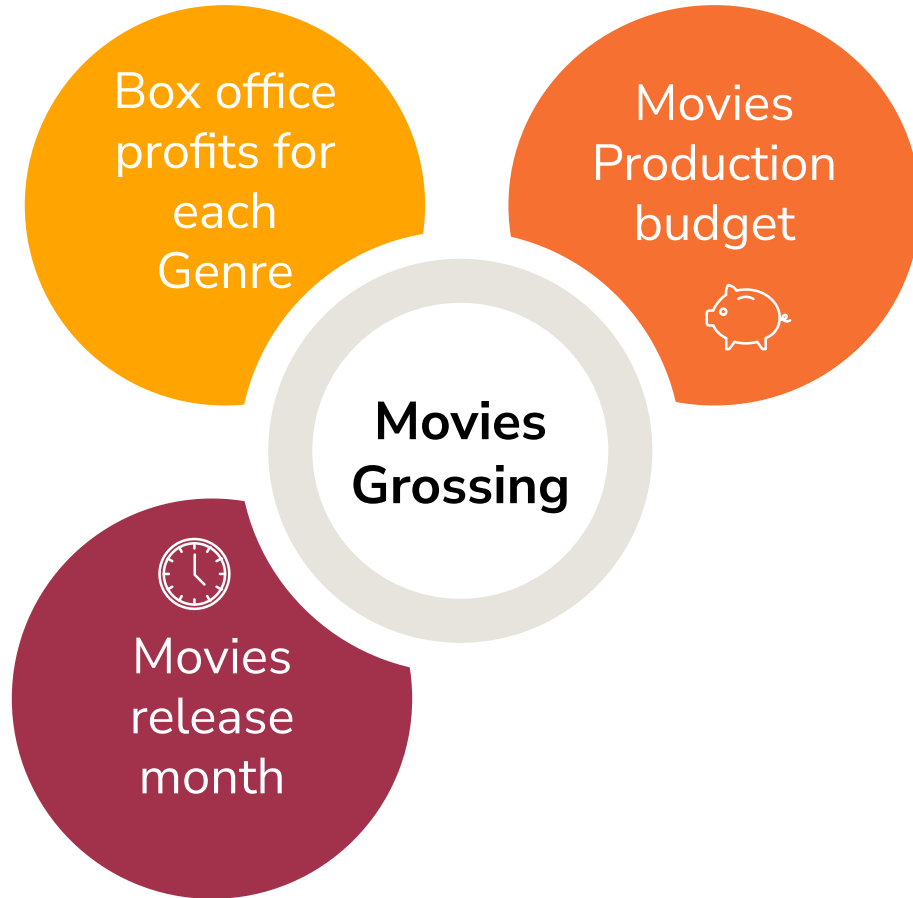
Animation Genre gains highest profits on Box Office.

Top Five Box Office Profits Averaged by Genre

32.06 M$

22.59 M$

22.12M$

18.44M$

17.84M$

Box Office Profits (Millions USD)

Animation Romance Comedy Drama Horror

Movie Genre

Positive relationship between Production Budget and Movies Grossing

Average of Movies Grossing based on Production budget

Movies Grossing (Billions $)

Movies Production Budget(Millions $)
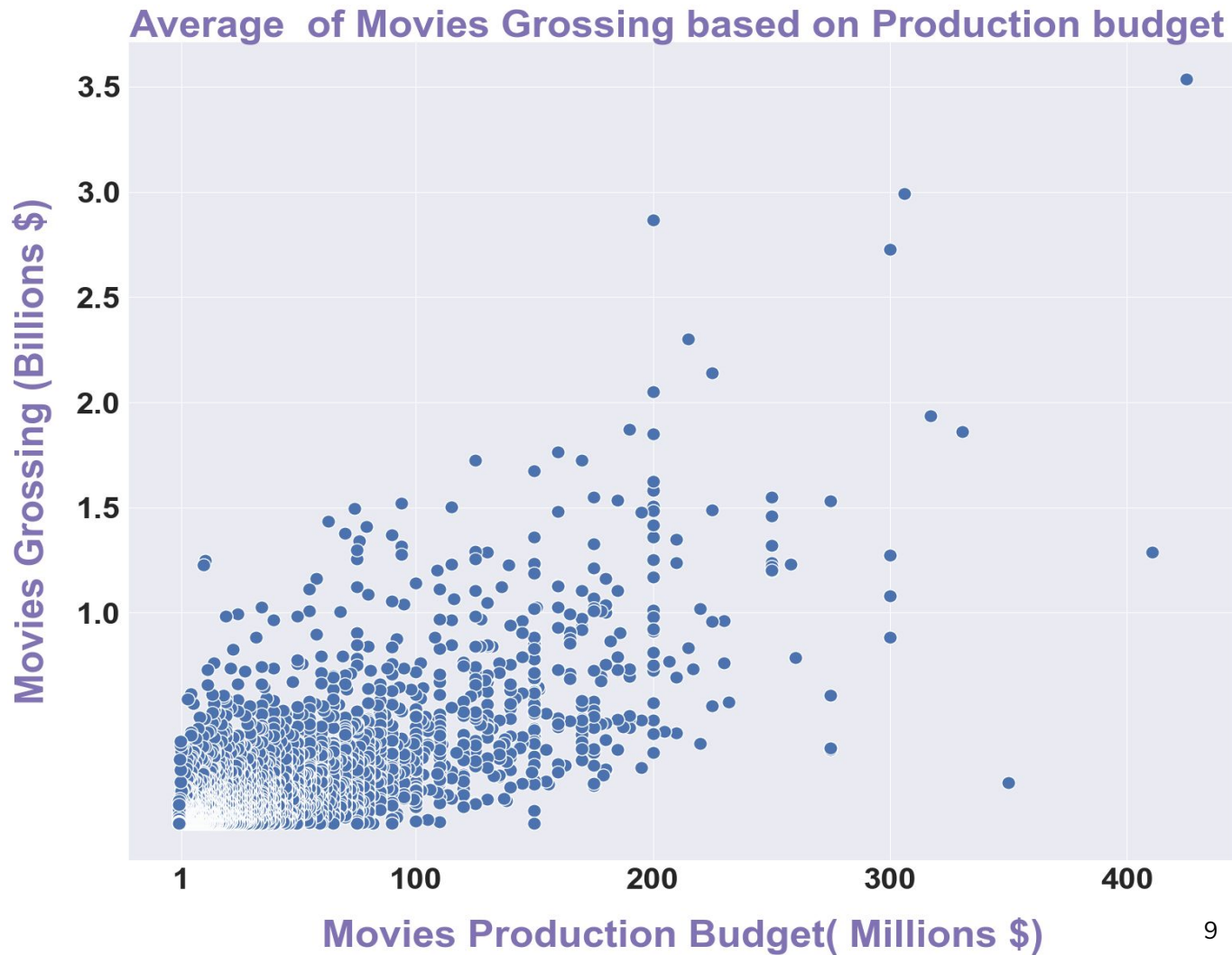
Highest box office profits records in December.

Top Five Box Office Profits Averaged by Month

Box Office Profits (Millions USD)

Release Month
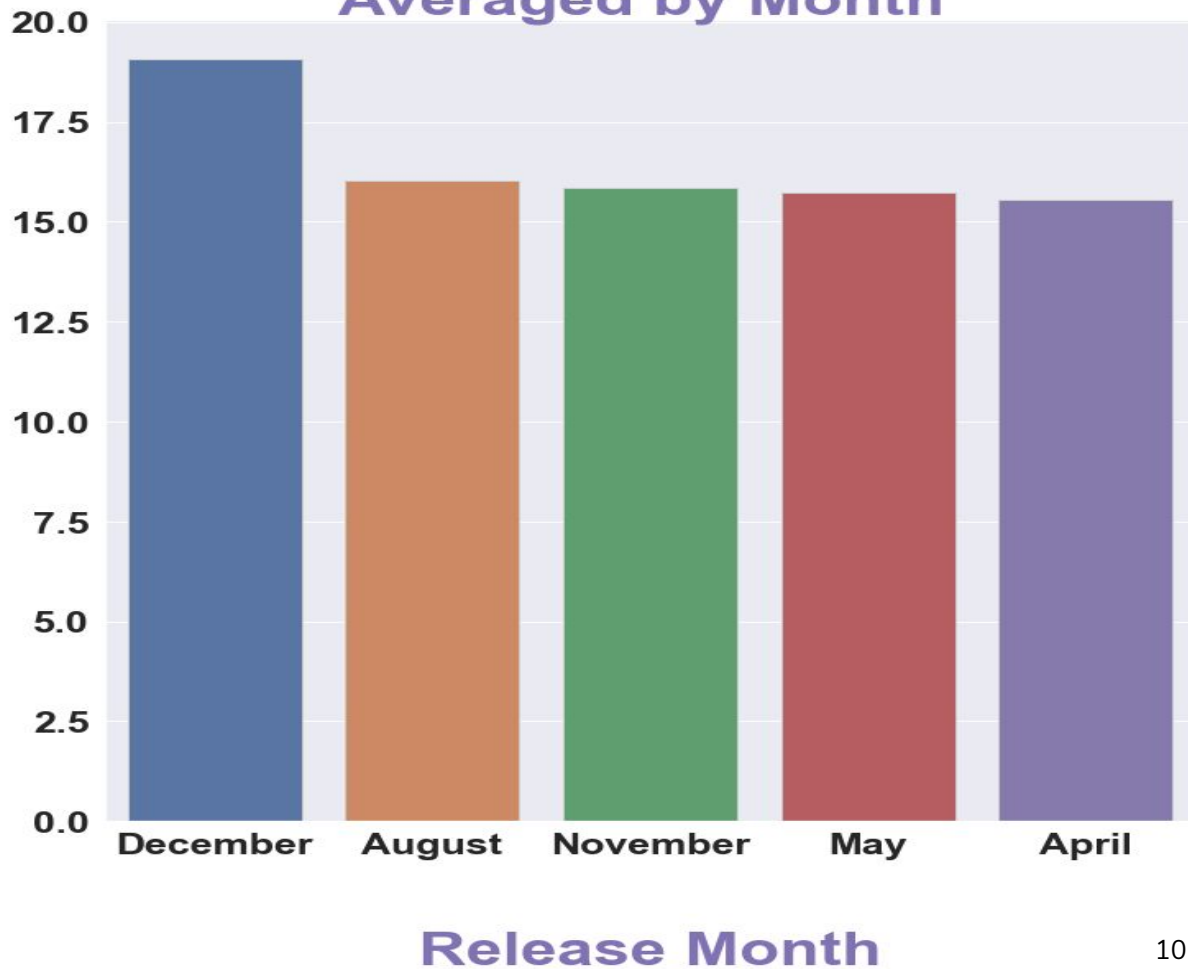
Conclusion & Recommendations

This analysis leads to three recommendations for helping Microsoft to understand the factors that are affecting their profits.

➢ Top five box office profits on Animation,Romance,Comedy, Drama,Horror genres.

➢ The average production budget should be between (100-400) million dollars.

➢ Microsoft should release their movie in December.

THANKS!

Any questions?

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