

11.12.24

CANVA CORPORATION



# Company Expansion **Movie Analysis**



# Agenda

- 01** Introduction
- 02** Data
- 03** Modeling
- 04** Recommendations and Conclusions
- 05** Next Steps

# 01

# Introduction



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# Company Expansion

Company wants to create a new movie studio, but it is a new venture. As a result, it is necessary to understand what types of films are currently doing the best at the box office



## Relationships

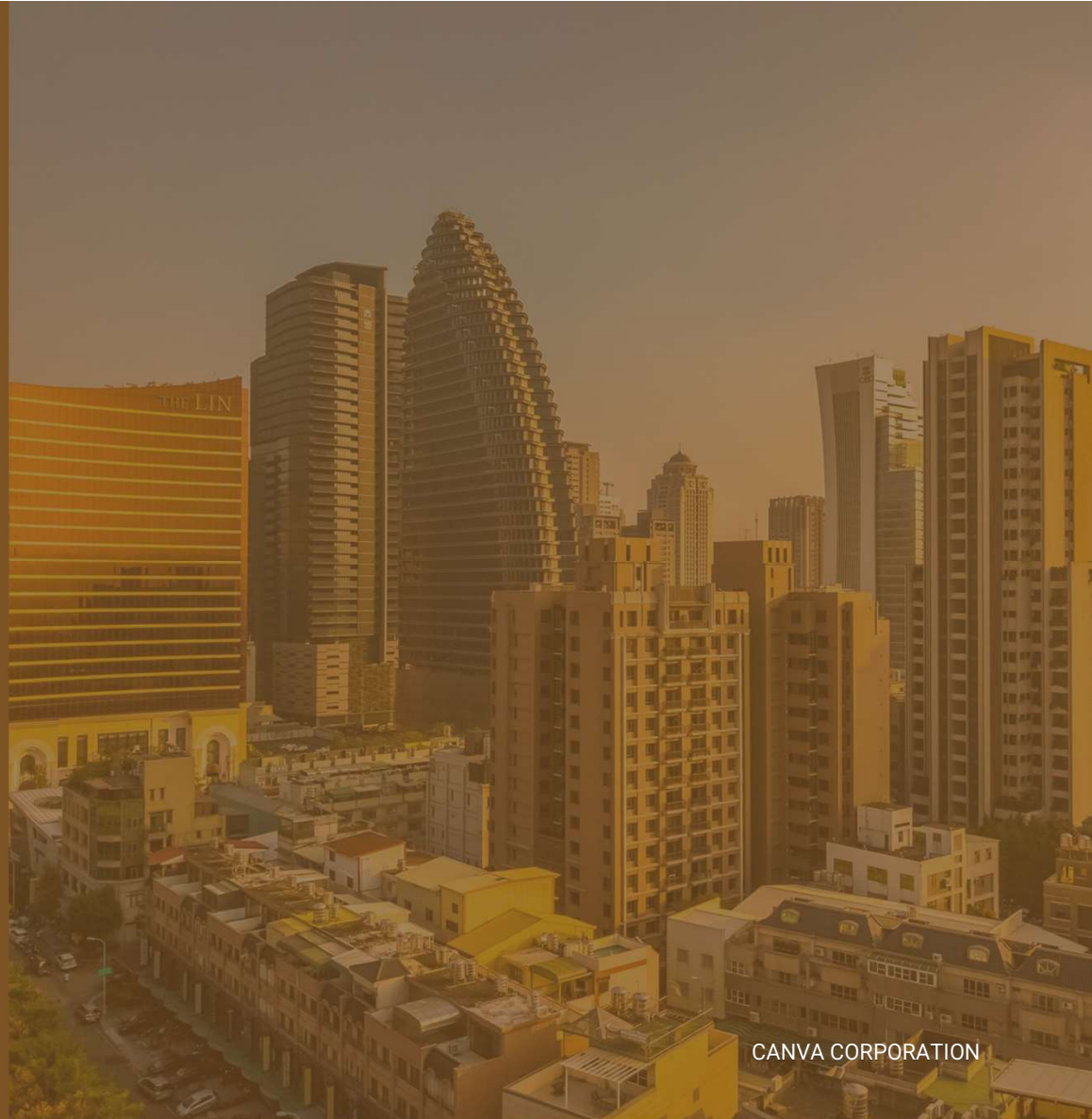
Examined the following linear relationships:

- Runtime vs. Production Budget
- Runtime vs. Net Profit
- Production Budget vs. Net Profit



# 02

# Data



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# Data Understanding

- Sources of the Data
  - 1 – Internet Movie Database (IMDb)
  - 2 – Box Office Mojo
  - 3 – Rotten Tomatos
  - 4 – The Movie Database
  - 5 – The Numbers

# Data Understanding

- Sources of the Data
  - 1 – Internet Movie Database (IMDb)
  - 2 – Box Office Mojo
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  - 4 – The Movie Database
  - 5 – The Numbers
- Winners
  - **IMDb** → *Runtime Minutes*
  - **The Numbers** → *Production Budget, Domestic Gross, Worldwide Gross*

# Data Preparation

- Step 1: Merged the IMDb and The Numbers datasets together
- Step 2: Created a new variable – *Net Profit*
  - *Worldwide Gross --- Production Budget = Net Profit*



# Data Preparation

- Descriptive Statistics

Runtime (Minutes)	
Count	1,521
Mean	106.72
STD	19
Minimum	4
25%	94
50%	105
75%	117
Max	180

*Budget* = Production Budget

*STD* = Standard Deviation

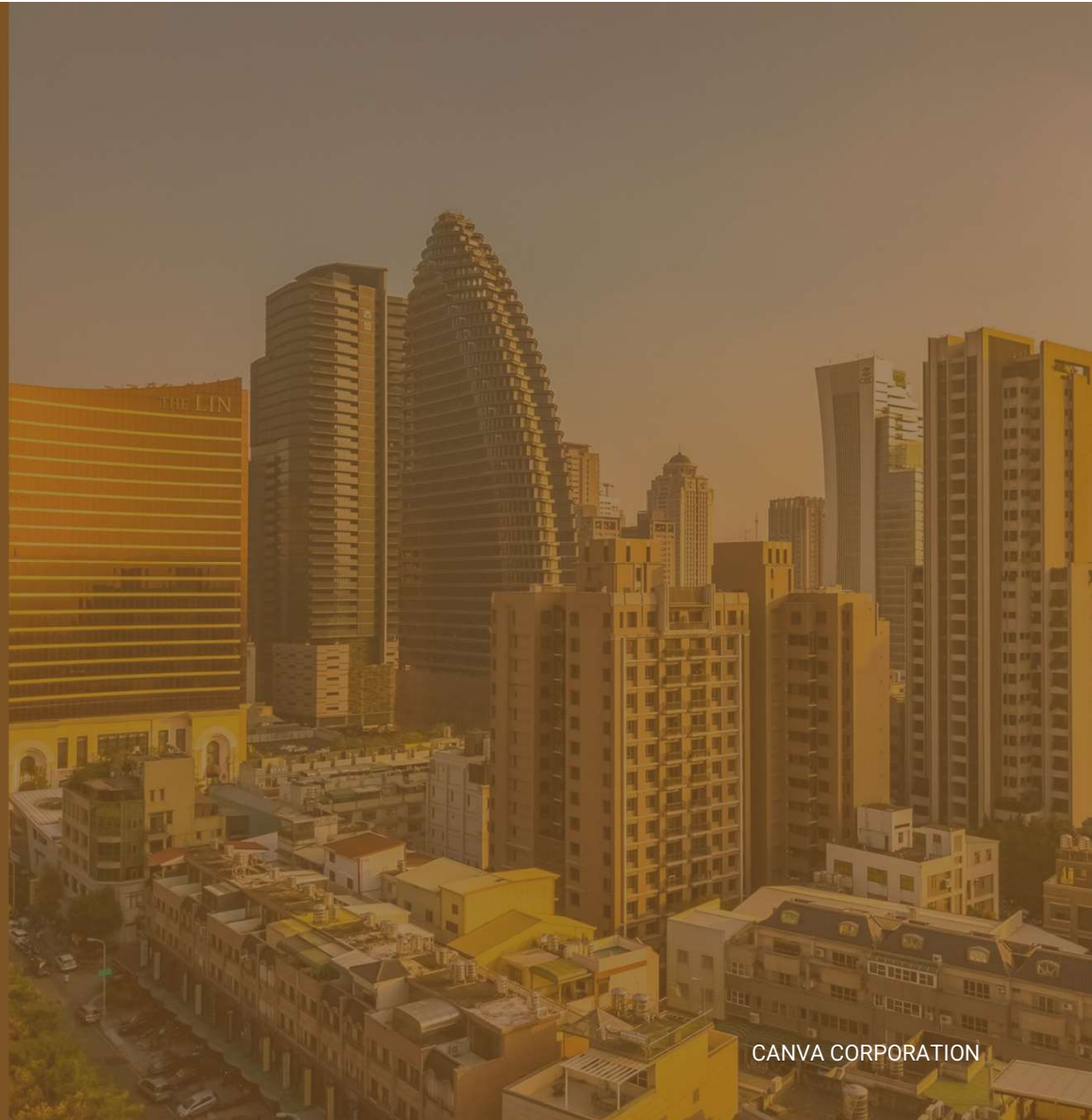
Budget (Dollars)	
Count	1,521
Mean	44,813,700
STD	56,119,070
Minimum	15,000
25%	8,000,000
50%	22,000,000
75%	55,000,000
Max	410,600,000

Net Profit (Dollars)	
Count	1,521
Mean	96,452,060
STD	192,729,600
Minimum	-200,237,600
25%	-736,060
50%	22,651,860
75%	105,763,400
Max	1,748,134,000

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# 03

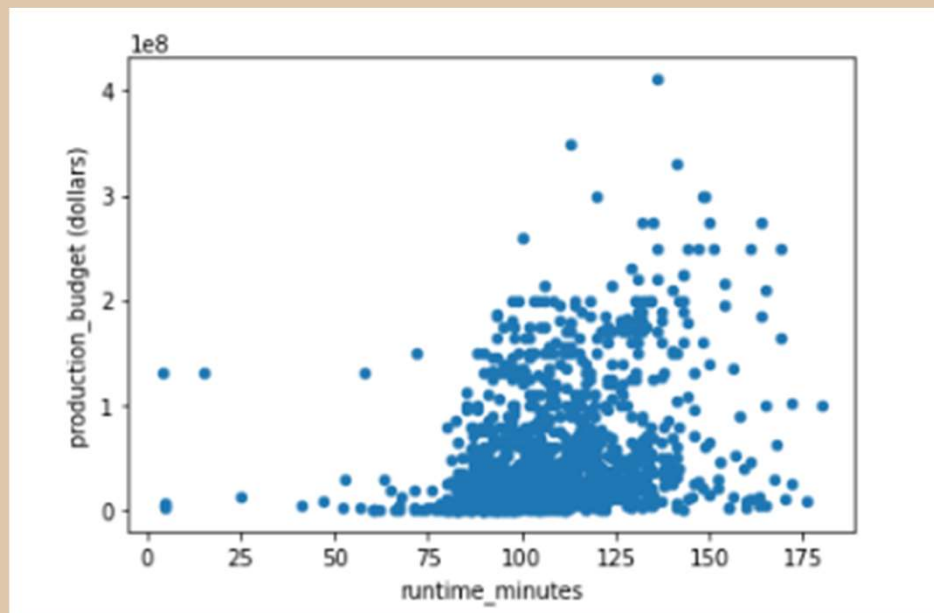
## Modeling



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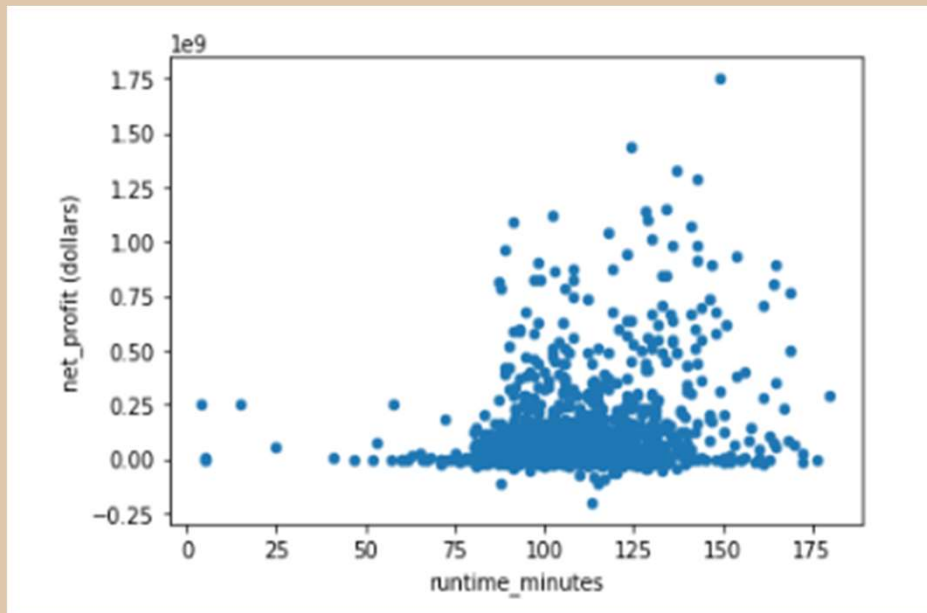
# Data Understanding

- Runtime vs. Production Budget
- Weak Correlation



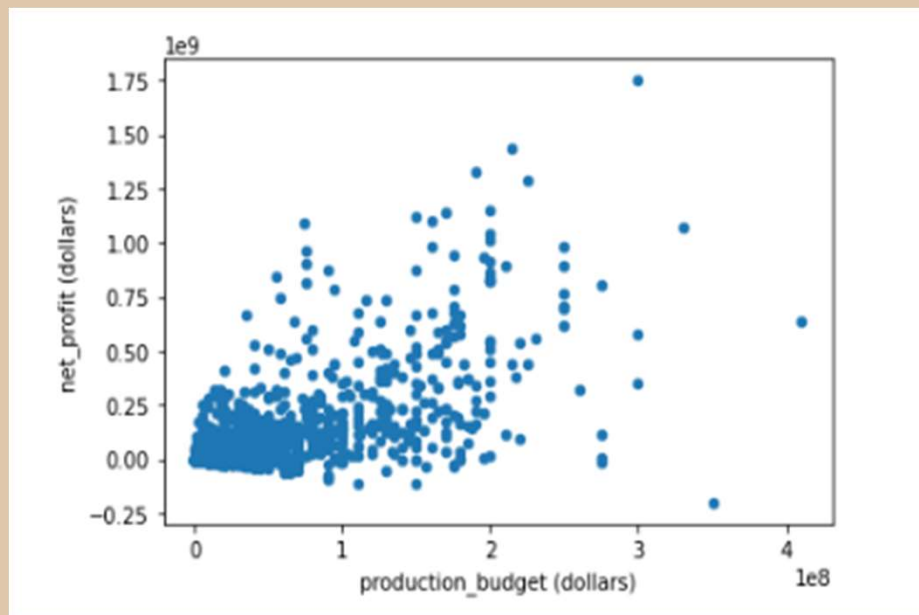
# Data Understanding

- Runtime vs. Net Profit
- Weak Correlation



# Data Understanding

- Production Budget vs. Net Profit
  - Strong Correlation



# Data Understanding

- Production Budget vs. Net Profit
  - Model
- Net Profit =  $2.2875 \text{ (Production Budget)} + -5,300,000$



# 04

## Recommendations and Conclusions



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# Recommendations and Conclusions

- 1 – ~~Runtime vs. Production Budget~~
- 2 – ~~Runtime vs. Net Profit~~
- 3 – ~~Production Budget vs. Net Profit~~

# 05

## Next Steps



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# Next Steps

## 1 – Refine Financial Metrics

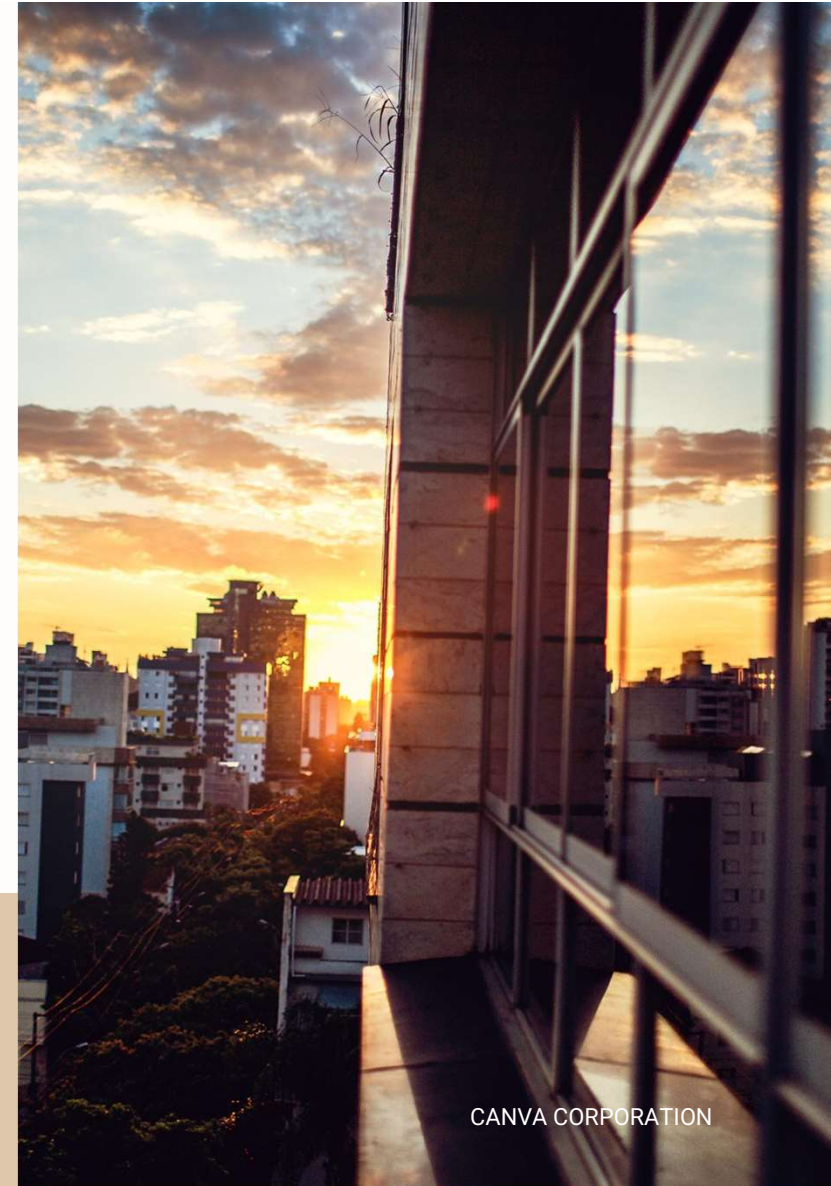
- DVD Sales
- Streaming Sales
- Multiple Releases
- Intangible Assets

## 2 – Other Attributes

- Genre
- Movie Studio
- Language

## 3 – Other Relationships and Models

- Logistic Regression

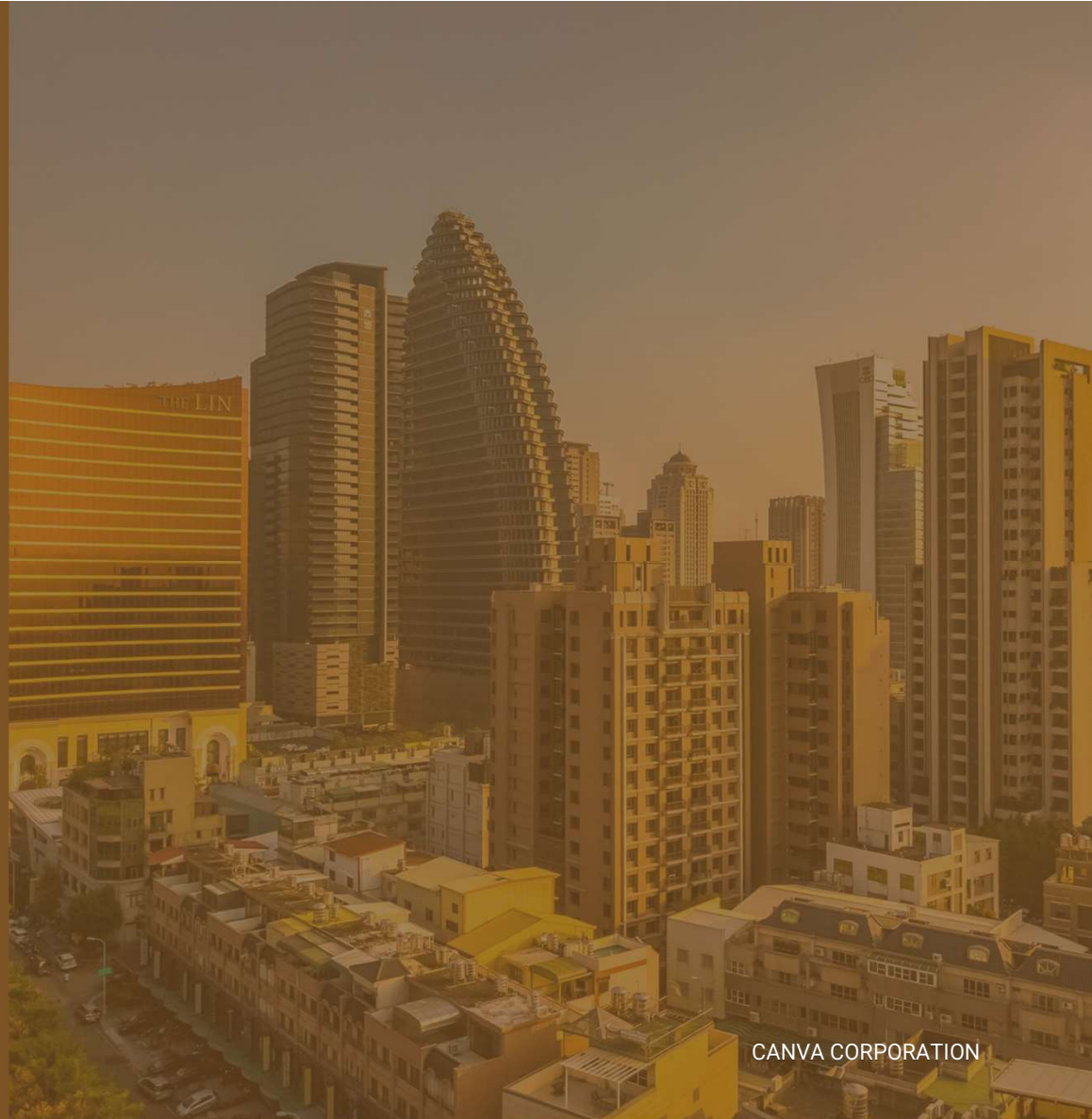


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# 06

## Appendix



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# Appendix

- *What is the Most Profitable Movie Ever?* - [What Is the Most Profitable Movie Ever? \(hollywoodreporter.com\)](https://www.hollywoodreporter.com/movies/movie-what-is-the-most-profitable-movie-ever-1234567890/)
- Blade (Wikipedia) - [Blade \(franchise\) - Wikipedia](https://en.wikipedia.org/wiki/Blade_(franchise))
- Internet Movie Database (IMDb) - [IMDb: Ratings, Reviews, and Where to Watch the Best Movies & TV Shows](https://www.imdb.com/)
- Box Office Mojo - [Home - Box Office Mojo](https://www.boxofficemojo.com/)
- Rotten Tomatoes - [Rotten Tomatoes: Movies | TV Shows | Movie Trailers | Reviews | Rotten Tomatoes](https://www.rottentomatoes.com/)
- The Movie Database - [The Movie Database \(TMDB\) \(themoviedb.org\)](https://www.themoviedb.org/)
- The Numbers - [The Numbers - Where Data and the Movie Business Meet \(the-numbers.com\)](https://www.the-numbers.com/)