Analytics for 2020 Rockbuster Strategy

Prepared for Rockbuster Stealth Management

Agenda

- Objective & Approach
- Executive Summary
- Background: Data at a Glance
- Analytical Insights:
 - Regional Trend
 - Popularity
 - Opportunity
- Recommendations

Objective & Approach

Key Questions:

- Which movies contributed the most/least to revenue gain?
- What was the average rental duration for all videos?
- Which countries are Rockbuster customers based in?
- Where are customers with a high lifetime value based?
- Do sales figures vary between geographic regions?

Approach:

- A multiple pieces of information, including but not limited to film, inventory, customer, and payment data were queried using SQL to address the key questions
 - Source: Rockbuster internal database

Executive Summary

Key Questions Answered

- Movies with most/least revenue contribution:
 - o Most Revenue (\$215.75): Telegraph Voyage
 - o Least Revenue (\$5.94): Duffel Apocalypse, Oklahoma Jumanji, and Texas Watch
- Average rental duration for all movies: 7 days
- Rockbuster customer base:
 - o 599 customers located globally in 597 cities from 108 countries.
 - o Top countries and customer counts: India (60)China (53), United States (36)
- · High lifetime value customer and location:
 - Hightest: Eleanor Hunt from Runion, \$211.55
 - o Top 10 highest lifetime value customers are spread out globally
- · Regional variations of sales figures:

 - Sales figures vary across regions
 Of the total revenue of \$61K, Asia Pacific contributed the most revenue of \$24K (39% of the total)

Background: Data at a Glance

Key Facts:

Number of unique titles: 958

Total inventoried copies: 4,581

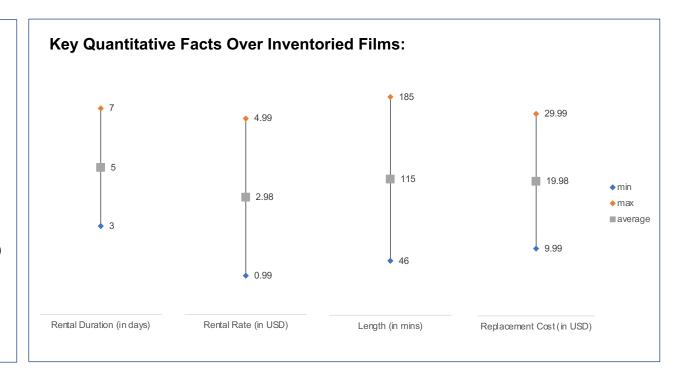
Number of customers: 599

• Total rental revenue: \$61,312.04

Number of rentals: 16,044

Most common film (modal value)

Rating: PG-13Language: EnglishRelease Year: 2016



Analytical Insights

Key Focus Areas

- **Revenue Generation**: Identify the films that contributed the most and least to revenue gain. Also identify any factors or drivers such as rental duration, rating, category that may impact on the revenue generation.
- **Customer Base**: Identify the Rockbuster customer base, including their global presence. Additionally identify where the high lifetime value customers located.
- Regional Sales Trend: Evaluate and highlight any differences in regional sales contributions

Revenue Generation: Top & Bottom Contributors



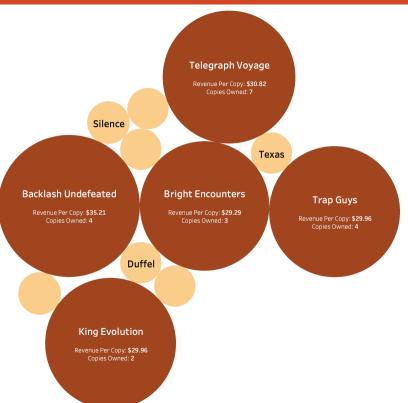
Title	F	Copies Owned	Total Rental Revenue
Telegraph Voya	ge	7	\$215.75
Zorro Ark		8	\$199.72
Wife Turn		8	\$198.73
Innocent Usual		8	\$191.74
Hustler Party		8	\$190.78
Saturday Lambs		8	\$190.74
Titans Jerk		8	\$186.73
Harry Idaho		8	\$177.73
Torque Bound		8	\$169.76
Dogma Family		8	\$168.72
Lights Deer			
Cruelty Unforgiven			
Treatment Jekyl	I		
Rebel Airport			
Young Language	9		
Freedom Cleopa	tra		
Duffel Apocalyp	se		
Oklahoma Juma	nji		
Texas Watch			

Telegraph Voyage was the film that generated the **most revenue with \$215.75** followed by **Zorrow Ark with \$199.72**. Rockbuster has 8 copies each for the top 10 best renting films, except for Telegraph Voyage with 7 copies.

Duffel Apocalypse, **Oklahoma Jumanji**, **Texas Watch** were the films that generated the **least amount of revenue of \$5.94 each**. Rockbuster mostly has 2 copies each for lower revenue generating films.

Tableau Link: https://public.tableau.com/views/CF DI E310 1/RevGen 1?:language=en-US&:display count=n&:origin=viz share link

Revenue Generation: Top & Bottom Contributors



Title	F	Copies Owned	Revenue Per Copy	Total Rental Revenue
Backlash Un	defeated	4	\$35.21	\$140.84
Telegraph V	oyage	7	\$30.82	\$215.75
Trap Guys		4	\$29.96	\$119.85
King Evoluti	on	2	\$29.96	\$59.92
Bright Enco	unters	3	\$29.29	\$87.88
Lawrence Lo	ove			
Silence Kane	9		\$3.17	
Freedom Cle	opatra			
Smoking Bar	rbarella			
Duffel Apoca	alypse			
Oklahoma Ju	umanji			
Texas Watch	1			

In terms of the rental revenue generated per each copy inventoried, while the lowest total revenue generated films generally had the lowest revenue earned per copy, this wasn't the case for the case for the top revenue generators.

Backlash Undefeated had the most revenue generated per copy inventoried of \$35.21. Additionally, despite of small total revenue contribution of \$59.92 and \$87.88, **King Evolution** and **Bright Encounters** were two of the top 5 films that had the highest revenue generated per each copy inventoried with revenue per copy of \$29.96 and \$29.29 respectively.

Tableau Link: https://public.tableau.com/views/CF DI E310 1/RevGen 2?:language=en-US&:display count=n&:origin=viz share link

Rental Duration - Background

The average rental duration for all videos: 7 days

From the individual movie-wise, *Jungle Close* had the longest average rental duration of **16.1** days, followed by *Entrapment Satisfaction* and *Theory Mermaid* of **14.2** days.

While no additional statistical analysis were performed, based on the top 10 movies with the longest rental durations, it appears to be there are no cause and effect relations between rental duration and rating or movie length.

What about the rental duration and revenue generation? Do they have any correlations? A statistical analysis was conducted to identify a possible correlation. Refer to the next slide for details.

Jungle Closer Avg Days Rented Per Each Rental: 16.1 Rating: NC-17 Length: 134 mins	Watership Frontier Avg Days Rented Per Each Rental: 14.1 Rating: G Length: 112 mins	Groove Fiction Avg Days Rented Per Each Rental: 13.7 Rating: NC-17 Length: 111 mins	Strangelove Desire Avg Days Rented Per Each Rental: 13.4 Rating: NC-17 Length: 103 mins
Entrapment Satisfaction Avg Days Rented Per Each Rental: 14.4 Rating: R Length: 176 mins	Gilbert Pelican Avg Days Rented Per Each Rental: 14.1 Rating: G Length: 114 mins	Maker Gables	
		Avg Days Rented Per Each Rental: 13.3 Rating: PG-13 Length: 136 mins	
Theory Mermaid	Mother Oleander	Length 130 mms	
Avg Days Rented Per Each Rental: 14.2 Rating: PG-13 Length: 184 mins	Avg Days Rented Per Each Rental: 13.8 Rating: R Length: 103 mins	Newsies Story Avg Days Rented Per Each Rental: 13.2 Rating: G Length: 159 mins	

Tableau Link: https://public.tableau.com/views/CF_DI_E310_1/AverageRentalDuration?:language=en-US&:display_count=n&:origin=viz_share_link

Rental Duration vs. Total Rental Revenue

Based on the analysis, it was noted that the total rental revenue generated by a film is **inversely** related with the average days rented per each rental with a **moderate correlation of 0.45**.

This means that it is somewhat likely that more revenue tends to be generated by the films that are being rented for shorter periods per each rental

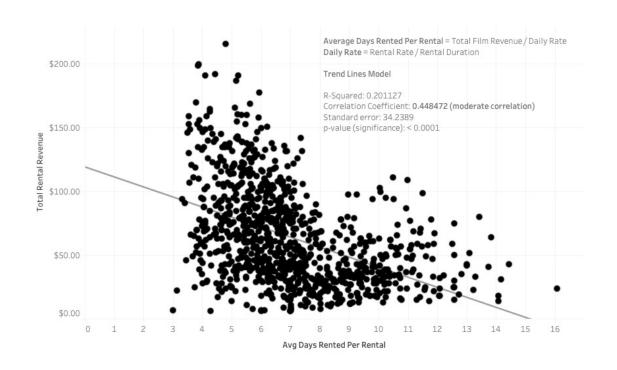


Tableau Link: https://public.tableau.com/views/CF DI E310 1/Revenue vs Duration?:language=en-US&:display count=n&:origin=viz share link

Rental Duration vs. Daily Rental Rate

It was also observed that the rental duration and daily rental rate had a **strong inverse correlation of 0.77**, meaning that the **movies with higher daily rates are being rented for shorter periods** by Rockbuster customers

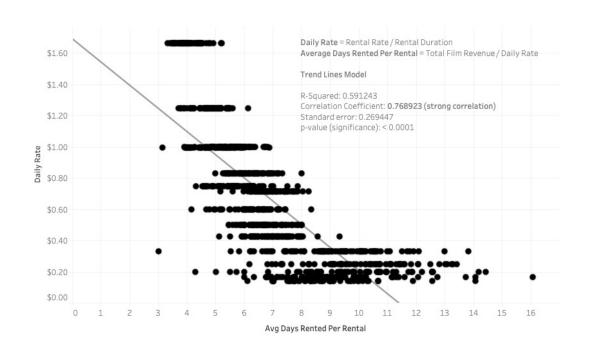
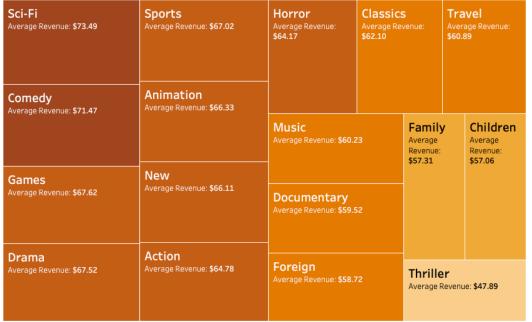
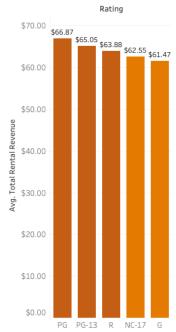


Tableau Link: https://public.tableau.com/views/CF DI E310 1/Rate vs Duration?:language=en-US&:display count=n&:origin=viz share link

Top Category and Rating Contributors





Additionally it was noted that Sci-Fi and Comedy movies were the top revenue drivers with the average revenue of \$73.49 and \$71.47 respectively and Thriller movies contributed the least with the average revenue of \$47.89.

In terms of the movie ratings, while PG rated movies had the highest average rental revenue, but there were no dramatic differences of revenue contributions amongst different ratings

Tableau Link: https://public.tableau.com/views/CF DI E310 1/RevGen Variables?:language=en-US&:display count=n&:origin=viz share link

Customer Base

Countries and Revenue Contributions



Tableau Link: https://public.tableau.com/views/CF DI E310 1/Customer Base?:language=en-US&:display count=n&:origin=viz share link

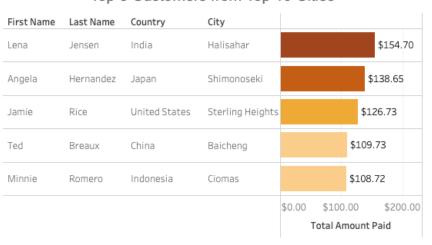
Customer Base

Based on Top 10 Countries: Top Cities and Their High Spenders

Top 10 Cities from Top 10 Countries

Count.. = City United Aurora States Sterling Heights India Halisahar Kanchrapara Mexico Jos Azueta San Felipe del Progreso Brazil Luzinia China Baicheng Indonesia Ciomas Japan Shimonoseki Number of Customers

Top 5 Customers from Top 10 Cities



From the Top 10 countries with the highest number of customer populations, listed above are the cities that had the most number of customers.

It appears that while countries may have large customer bases, customers may be dispersed throughout the country and that is why most cities in the list above show population of only one.

Listed above are the top 5 customers from the top 10 cities referenced in the left table who spent the most. In this list, the top spender was **Lena Jensen** from **Halisahal**, **India**, who spent **\$154.70 total** with Rockbuster

Tableau Link: https://public.tableau.com/views/CF DI E310 1/Top5CustomerTop10Cities?:language=en-US&:display count=n&:origin=viz share link

Customer Base

High Lifetime Value Customers



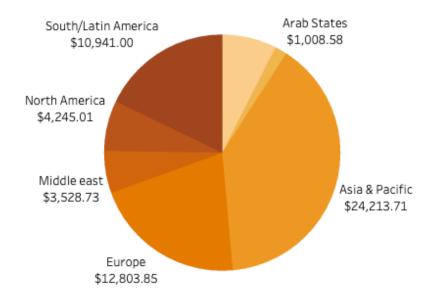
Eleanor Hunt from Runion was the customer with the highest lifetime value of \$211.55, followed by Marion Snyder from Brazil with \$194.61

The top 10 highest lifetime value customers appeared to be spread out globally with their **presence in all regions**.

Tableau Link: https://public.tableau.com/views/CF DI E310 1/High Lifetime Values?:language=en-US&:display count=n&:origin=viz share link

Regional Sales Trend

Sales by Region



Of the total revenue of \$61,312, approximately 39% (\$24K) was generated in the Asia & Pacific region, followed by 21% (\$13K) in the Europe region.

Tableau Link: https://public.tableau.com/views/CF DI E310 1/Regional Sales?:language=en-US&:display count=n&:origin=viz share link

Recommendations

Disclaimer

- Recommendations crafted are based on the insights obtained by analyzing the available Rockbuster internal data. Any inaccuracies and/or incompleteness of the internal data may skew the recommendations raised by the analyst.
- Recommendations are crafted to assist the management team in making informed decisions. They are not mandatory guidelines to be followed.

Recommendations

Area	Key Focus Area	Objective Details	Analytical Insights Summary	Recommendation
Revenue Generation	Top and Bottom Revenue Contributors	Identify the movies contributed the most/least to revenue gain	 Telegraph Voyage was the film that generated the most revenue with \$215.75 Duffel Apocalypse, Oklahoma Jumanji, Texas Watch were the films that generated the least amount of revenue of \$5.94 each It appears to be there are no cause and effect relations between rental duration and rating or movie length based on the top 10 high revenue generating movies 	None in particular for this area
Revenue Generation	Rental Duration	Identify the average rental duration of all movies	 The average rental duration for all videos: 7 days From the individual movie-wise, Jungle Close had the longest average rental duration of 16.1 days, followed by Entrapment Satisfaction and Theory Mermaid of 14.2 days The Total rental revenue generated by a film is inversely related with the average days rented per each rental with a moderate correlation. Also, the rental duration and daily rental rate had a strong inverse correlation. 	It may be beneficial for the Rockbuster to increase the movies with higher daily rates to maximize the company's revenue
Revenue Generation	Other Possible Revenue Drivers	Identify other possible revenue drivers	 Category: Sci-Fi and Comedy movies were the top revenue drivers with the average revenue of \$73.49 and \$71.47 respectively and Thriller movies contributed the least with the average revenue of \$47.89 Rating: while PG rated movies had the highest average rental revenue, but there were no dramatic differences of revenue contributions amongst different ratings 	Consider investing more in increasing Sci-Fi and Comedy movie inventories, while being cautious in increasing Thriller movie inventories

Recommendations

Area	Key Focus Area	Objective Details	Analytical Insights Summary	Recommendation
Customer Base	Location, Customer Counts, and Revenue	Identify the top 10 cities from the top 10 countries with the highest number of customers and find out the top 5 customers from those cities	 Top 10 countries with highest number of customers: India (60), China (53), United States (36), Japan (31), Mexico (30), Brazil (28), Russian Federation (28), Philippines (20), Turkey (15), and Indonesia (14) Top 10 cities from the top 10 countries: Aurora (2), Sterling Heights (1), Halisahar (1), Kanchrapara (1), Jos Azueta (1), San Felipe del Progreso (1), Luzinia (1), Baicheng (1), Ciomas (1), and Shimonoseki (1) Top 5 spenders from top 10 cities: Lena Jenseon (Halisahar, \$154.70), Angela Hernandez (Simonoseki, \$138.65), Jamie Rice (Sterling Heights, \$126.73), Ted Breaux (Baicheng, \$109.73), and Minnie Romero (Ciomas, \$108.72) It appears that while countries may have large customer bases, customers may be dispersed throughout the country and that is why most cities in the list above show population of only one. Top revenue generating countries were in line with the number of customers that countries have: India (\$6.0K), China (\$5.3K), U.S. (\$3.7K), Japan (\$3.1K), Mexico (\$3.0K), Brazil (\$2.9K) and so on. 	Identify any drivers for customer attraction and retention to increase revenue generation
Customer Base	High Lifetime Value Customers	Identify high lifetime value customers and their locations	 Eleanor Hunt from Runion was the customer with the highest lifetime value of \$211.55, followed by Marion Snyder from Brazil with \$194.61 The top 10 highest lifetime value customers appeared to be spread out globally with their presence in all regions. 	 Develop a mechanism (e.g. loyalty rewards, incentive programs) to retain high lifetime value customers
Regional Sales	Regional Sales Variation	Identify how the sales figures vary between regions	 Of the total revenue of \$61,312, approximately 39% (\$24K) was generated in the Asia & Pacific region, followed by 21% (\$13K) in the Europe region. 	Consider focusing on increasing customer bases in those regions where movie streaming services (e.g., Netflix) are still not popular

