Cookie Data Report

Introduction:-

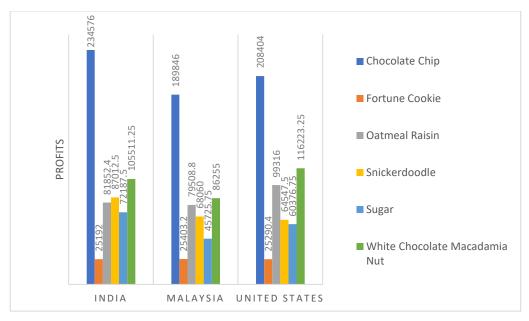
The purpose of this report is to analyse the sales data of various cookie types across different countries for the years 2019 and 2020. The dataset provides insights into revenue, profit, quantity sold, and pricing information for each cookie type and country. Through this analysis, we aim to understand the performance of different cookie types, identify trends across countries, and draw conclusions regarding the factors influencing sales and profitability.

Questionnaire:-

- 1. Compare the profit earn by all cookie types in US, Malaysia and India.
- 2. What is the average revenue generated by different types of cookies?
- 3. Which country sold most Fortune and sugar cookies in 2019 and in 2020?
- 4. Compare the performance of all the countries for the year 2019 to 2020. Which country perform in each of these years?
- 5. Which cookie category sold on the highest price, country wise and how much profit is earned by that category overall?

Analytics:-

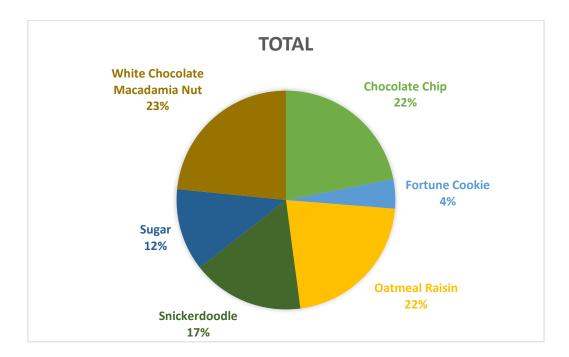
1. Compare the profit earn by all cookie types in US, Malaysia and India.



Countries

Ans: When compared to other treats like fortune cookies, oatmeal raisin cookies, and white chocolate macadamia, chocolate chips yield larger profits in these countries.

2. What is the average revenue generated by different types of cookies?



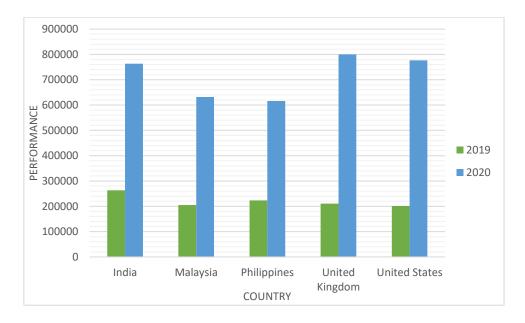
Ans: Based on the above figure, oatmeal is the cookie with the second-highest revenue generation, followed by white chocolate macadamia nut cookies, which earn the highest average revenue of all the cookies.

3. Which country sold most Fortune and sugar cookies in 2019 and in 2020?



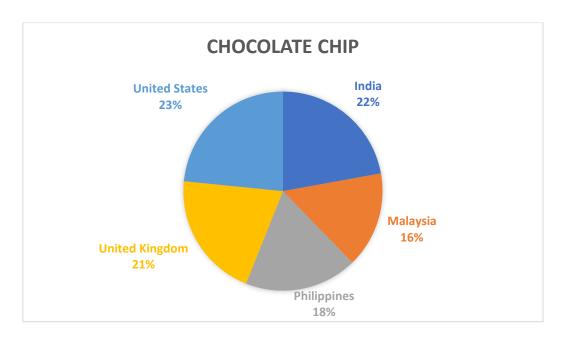
Ans: According to the graph above, the United States ranked second in terms of sales of sugar and fortune cookies in 2020, followed by India in the United Kingdom and the Philippines in 2019.

4. Compare the performance of all the countries for the year 2019 to 2020. Which country perform in each of these years?



Ans: United Kingdom performed the best out of all the nations in 2020, with India taking the lead in 2019.

5. Which cookie category sold on the highest price, country wise and how much profit is earned by that category overall?



Ans: India was leading at position 22%, while chocolate chip cookies sold for the highest price of 23% total in the United States for the biggest profit made.

Conclusion and Reviews: -

In summary, analyzing cookie sales data has provided invaluable insights into consumer preferences, industry trends, and profitability across many countries and cookie types. We were able to gain a complete understanding of the factors affecting sales success by analyzing data on revenue, profit, quantity sold, and price. Thanks to this analysis, we have been able to increase profitability and better satisfy customer requests by finding growth potential, refining product offers, and adjusting marketing strategies. Future study and adaptation based on these insights will be necessary to keep a competitive edge in the rapidly changing cookie market. Taking everything into account, the meticulous examination of sales data has proven essential in directing strategic decisions and ensuring the long-term sustainability of our cookie business.

Regression:

The regression model, with a significant p-value (p < 0.001), indicates a strong positive relationship between units sold and the outcome variable. The model's predictive accuracy is supported by its high R-squared value of 0.688, suggesting that approximately 68.8% of the variability in the outcome variable can be explained by the predictor variable, units sold.

SUMMARY OUTPUT

| Regression Statistics | | | | | | | |
|-----------------------|----------|--|--|--|--|--|--|
| Multiple R | 0.829304 | | | | | | |
| R Square | 0.687746 | | | | | | |
| Adjusted R | | | | | | | |
| Square | 0.687298 | | | | | | |
| Standard Error | | | | | | | |
| | 1462.76 | | | | | | |
| Observations | 700 | | | | | | |

ANOVA

| | | | | | Significance |
|------------|-----|----------|----------|----------|--------------|
| | df | SS | MS | F | F |
| Regression | 1 | 3.29E+09 | 3.29E+09 | 1537.356 | 1.4E-178 |
| Residual | 698 | 1.49E+09 | 2139668 | | |
| Total | 699 | 4.78E+09 | | | |

| | | Standard | | | | Upper | Lower | Upper |
|------------|--------------|----------|----------|----------|-----------|----------|----------|----------|
| | Coefficients | Error | t Stat | P-value | Lower 95% | _95% | 95.0% | 95.0% |
| Intercept | -74.4103 | 116.5304 | -0.63855 | 0.523326 | -303.202 | 154.3817 | -303.202 | 154.3817 |
| Units Sold | 2.500792 | 0.063781 | 39.20914 | 1.4E-178 | 2.375567 | 2.626017 | 2.375567 | 2.626017 |

Co-relation:

The correlation coefficient between units sold and revenue is 0.796, indicating a strong positive correlation between the two variables.

| | Units | |
|---------|----------|----------|
| - | Sold | Revenue |
| Units | | |
| Sold | 1 | 0.796298 |
| Revenue | 0.796298 | 1 |

Anova (Single Factor):

The AN VA results indicate a significant difference between the two groups (p < 0.001), with 1 degree of freedom. The within-group error is 7681356717, and the total R-squared value is 0.06, suggesting that the model explains 6% of the variability in the data.

SUMMARY

| Groups | Count | Sum | Average | Variance |
|--------|-------|---------|----------|----------|
| 3450 | 699 | 1923505 | 2751.795 | 4154648 |
| 5175 | 699 | 2758189 | 3945.908 | 6850161 |
| | | | | |

ANOVA

| Source of | | | | | | |
|----------------|-----------|------|----------|----------|----------------|----------|
| Variation | SS | Df | MS | F | <u>P-value</u> | _F crit |
| | | | | | 7.53E- | |
| Between Groups | 4.98E+08 | 1 | 4.98E+08 | 90.57022 | 21 | 3.848129 |
| Within Groups | 7.68E+09 | 1396 | 5502405 | | | |
| | | | | | | |
| Total | 0 105 ,00 | 1207 | | | | |
| Total | 8.18E+09 | 1397 | | | | |

Anova two factor without Replication:

The AN VA results reveal significant variation among rows and columns (p < 0.001), with degrees of freedom (df) values of 48 and 3, respectively. The error term has a degree of freedom of 144.

ANOVA

| 7110 171 | | | | | | |
|-----------|----------|----|----------|----------|---------|----------|
| Source | of | | | | | |
| Variation | SS | Df | MS | F | P-value | F crit |
| | | | | | 8.54E- | |
| Rows | 8.21E+08 | 48 | 17108242 | 5.848894 | 17 | 1.445925 |

| | | | | | 3.8E- | |
|---------|----------|-----|----------|----------|-------|----------|
| Columns | 5.65E+10 | 3 | 1.88E+10 | 6435.486 | 153 | 2.667443 |
| Error | 4.21E+08 | 144 | 2925039 | | | |
| | | | | | | |
| Total | 5.77E+10 | 195 | | | | |

Anova two factor with Replication:

The AN VA results show that there is a significant difference among the samples, columns, and their interaction, with p-values less than 0.001. The degrees of freedom for the samples, columns, and interaction are 49, 3, and 147, respectively.

Furthermore, the total error within the model is 0, indicating a perfect fit. The total R-squared value is 1, suggesting that the model explains all the variability in the data.

ANOVA

| Source | of | | | | | | |
|-------------|----|----------|-----|----------|-------|----------------|---------|
| Variation | | SS | df | MS | F | <u>P-value</u> | _F crit |
| Sample | | 8.55E+08 | 49 | 17443674 | 65535 | #NUM! | #NUM! |
| Columns | | 5.78E+10 | 3 | 1.93E+10 | 65535 | #NUM! | #NUM! |
| Interaction | | 4.39E+08 | 147 | 2983765 | 65535 | #NUM! | #NUM! |
| Within | | 0 | 0 | 65535 | | | |
| | | | | | | | |
| Total | | 5.91E+10 | 199 | | | | |

Descriptive Statistics:

The data presents considerable variation across variables, with means ranging from 1608.15 to 43949.81. Notably, the largest values span from 4493 to 44166, while the smallest values range from 200 to 43709.

| 1725 | | 8625 | | 3450 | | 5175 |
|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|
| | | | | | | |
| Mean | 1608.153 | Mean | 6697.702 | Mean | 2751.795 | Mean |
| Standard Error | 32.83303 | Standard Error | 174.9955 | Standard Error | 77.09541 | Standard Error |
| Median | 1540 | Median | 5868 | Median | 2422.2 | Median |
| Mode | 727 | Mode | 8715 | Mode | 3486 | Mode |
| Standard Deviation | 868.0597 | Standard Deviation | 4626.638 | Standard Deviation | 2038.295 | Standard Deviation |
| Sample Variance | 753527.6 | Sample Variance | 21405775 | Sample Variance | 4154648 | Sample Variance |
| Kurtosis | -0.31828 | Kurtosis | 0.463405 | Kurtosis | 0.807696 | Kurtosis |
| Skewness | 0.436551 | Skewness | 0.869254 | Skewness | 0.931429 | Skewness |
| Range | 4293 | Range | 23788 | Range | 10954.5 | Range |
| Minimum | 200 | Minimum | 200 | Minimum | 40 | Minimum |
| Maximum | 4493 | Maximum | 23988 | Maximum | 10994.5 | Maximum |
| Sum | 1124099 | Sum | 4681694 | Sum | 1923505 | Sum |
| Count | 699 | Count | 699 | Count | 699 | Count |
| Largest(1) | 4493 | Largest(1) | 23988 | Largest(1) | 10994.5 | Largest(1) |
| Smallest(1) | 200 | Smallest(1) | 200 | Smallest(1) | 40 | Smallest(1) |
| Confidence | | Confidence | | Confidence | | Confidence |
| Level(95.0%) | 64.46334 | Level(95.0%) | 343.5807 | Level(95.0%) | 151.3667 | Level(95.0%) |

Store Data Report

Introduction:

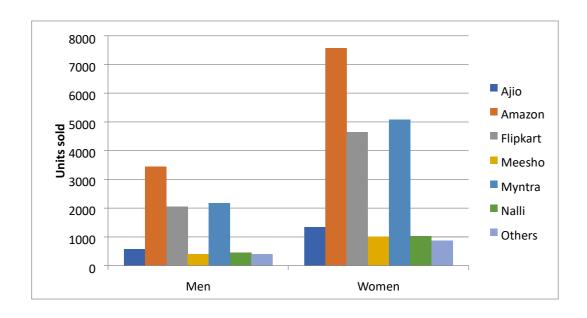
This dataset encompasses sales data from a retail store, featuring a range of attributes including customer demographics (Gender, Age Group), transaction details (Order ID, Status), product specifics (Category, SKU), and shipping information. With a focus on understanding customer behaviour and product trends, our analysis aims to uncover patterns, preferences, and correlations within the data. By leveraging these insights, businesses can optimize marketing efforts, enhance inventory management, and improve customer satisfaction.

Questionnaire:

- 1. which of the channel performed better than all other channels in compare men & women?
- 2. Compare category. Find out most sold category above 23 years of age for any gender.
- 3. Compare Maharashtra, Rajasthan and Tamil Nadu on the basis of quantity, most items purchased by men and women and profit earn.
- 4. Which city sold most of following categories:
 - a. Kurta
 - b. Set
 - c. Western wears
- 5. In which month most items sold in any of the state on the basis of category.

Analytics:

1. which of the channel performed better than all other channels in compare men & women?



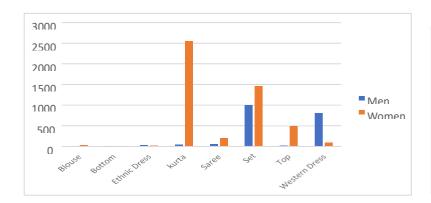
<u>Ans</u>: Amazon leads in sales for both genders, with Myntra and Flipkart following closely behind. In the women's category, Amazon sold almost 7,500 copies, and in the men's category, almost 3500 units. 2000 pieces were sold in Myntra's men's section.

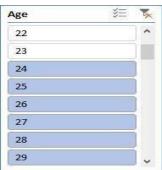
2. Compare category. Find out most sold category above 23 years of age for any gender.

The table of items sold is given below:

| Item | Men | Women | Grand Total |
|---------------|------|-------|----------------|
| Blouse | 6 | 190 | 196 |
| Bottom | 40 | 28 | 68 |
| Ethnic Dress | 150 | 77 | 227 |
| kurta | 156 | 8820 | 8976 |
| Saree | 261 | 941 | 1202 |
| Set | 4365 | 6204 | 10569 |
| Тор | 45 | 1825 | 1870 |
| Western Dress | 3078 | 380 | 3458 |
| Grand Total | 8101 | 18465 | 26566 |

The graph is as follows:





<u>Ans</u>: In the women's segment, kurtas are the most popular category, with 8820 items sold to customers over 23. Sets are the most popular category in the men's area and the second most popular category in the women's area, with 4365 units sold.

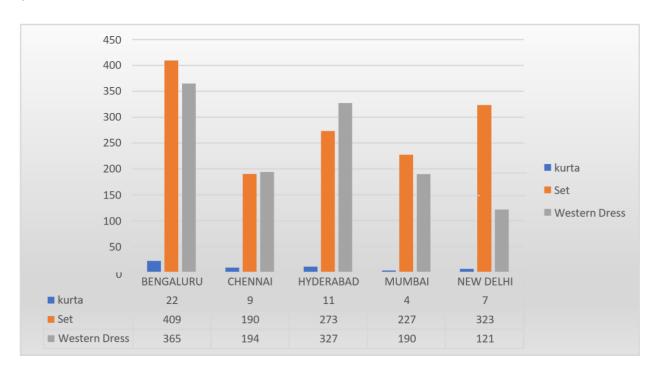
3. Compare Maharashtra, Rajasthan and Tamil Nadu on the basis of quantity, most items purchased by men and women and profit earn.



Ans: In Maharashtra, sales for men are 1390, and sales for women are 3144. Sales for men in Tamil Nadu are 686, while sales for women are 2023. In Rajasthan, there are 21 sales for males and 543 sales for women.

- 4. Which city sold most of following categories
 - a. Kurta
 - b. Set
 - c. Western wears

<u>Ans</u>: Bengaluru, Chennai, Hyderabad, Mumbai and New Delhi are the cities sold most of kurtas, Sets and western wears.

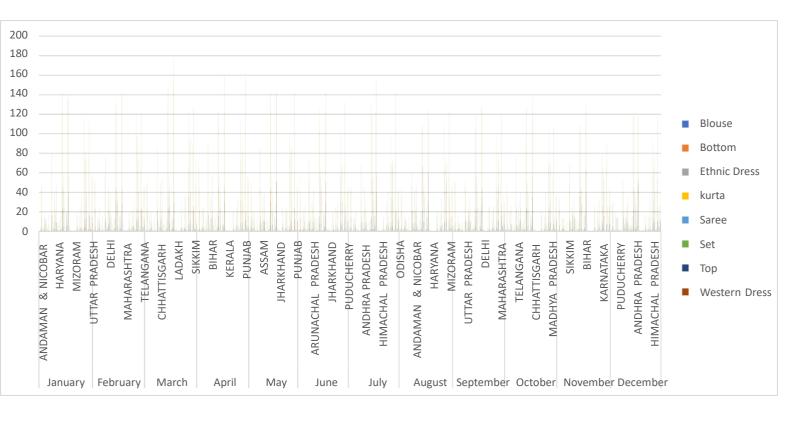


5. In which month most items sold in any of the state on the basis of category.

| 0.1 | kurta | | Set | Western | Grand |
|--------------------|-------|------|------|---------|-------|
| City | | | | Dress | Total |
| BENGALURU | | 964 | 938 | 422 | 2324 |
| CHENNAI | | 666 | 451 | 217 | 1334 |
| HYDERABAD | | 713 | 687 | 370 | 1770 |
| MUMBAI | | 437 | 515 | 207 | 1159 |
| NEW DELHI | | 479 | 792 | 142 | 1413 |
| Grand Total | | 3259 | 3383 | 1358 | 8000 |



Ans: The graph for most items sold in any of stats on basis of category is as follows:



Conclusion and Review:

Significant trends and insights can be extracted from the store data, as can be seen after careful study. Key metrics like units sold, state-specific analytics, geographies, and sales across various stats and products can be examined in order to provide important insights regarding market demand, sales, and overall profitability. With the ability to target particular audiences, optimize resources, and maximize earnings in future store sales endeavors, this thorough information will facilitate informed decision-making.

Car Collection Report

Introduction:-

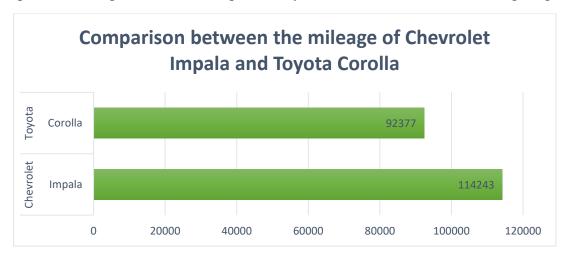
This report provides an in-depth analysis of a dataset containing information on various makes and models of used vehicles. The data encompasses details such as the make, model, color, mileage, listing price, and estimated cost for 24 different vehicles spanning popular brands like Honda, Toyota, Nissan, Ford, Chevrolet, and Dodge. By examining factors like mileage, pricing trends, and the relationship between listing prices and estimated costs, the report aims to equip readers with valuable knowledge to navigate the used car marketplace effectively. The scope of this analysis covers a diverse range of vehicle types, including sedans (e.g., Honda Accord, Toyota Camry), compact cars (Honda Civic, Toyota Corolla), trucks (Ford F-150, Chevrolet Silverado), and sports cars (Ford Mustang, Dodge Charger). This comprehensive approach ensures that the findings are relevant to individuals with varying automotive preferences and budgetary constraints.

Questionnaire:-

- 1. Compare the mileage of Chevrolet Impala to Toyota Corolla. Which of the two is giving best mileage?
- 2. Justify, Buying of any Ford car is better than Honda.
- 3. Among all the cars which car color is the most popular and is least popular?
- 4. Compare all the cars which are of silver color to the green color in terms of Mileage.
- 5. Find out all the cars, and their total cost which is more than \$2000?

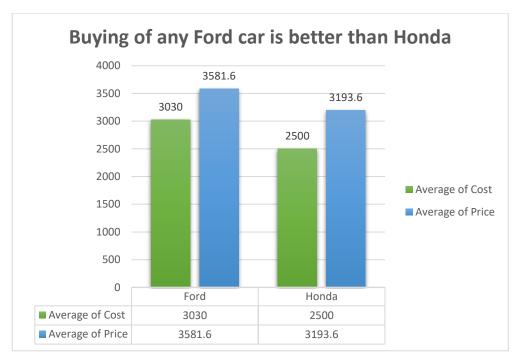
Analytics:-

1. Compare the mileage of Chevrolet Impala to Toyota Corolla. Which of the two is giving best mileage?



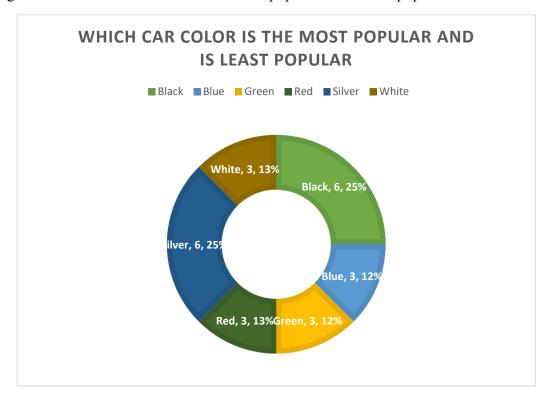
Ans: In comparison to the Toyota Corolla (92,377 miles), the average mileage of the Chevrolet Impala is greater at 114,243 miles.

2. Justify, Buying of any Ford car is better than Honda.



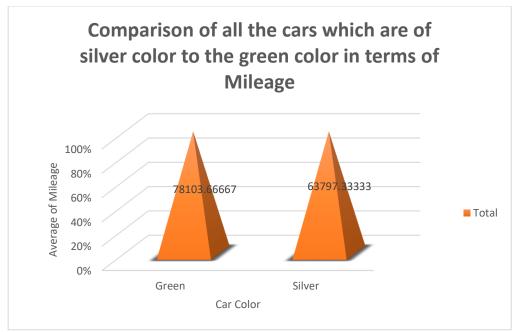
Ans: Purchasing a Honda is preferable than purchasing a Ford since the former offers a larger price-cost differential (\$693.6 vs. \$551.6), indicating superior value.

3. Among all the cars which car color is the most popular and is least popular?



Ans: Silver and black are the most popular colors (both 6 automobiles). The four least common automotive colors are white, red, blue, and green.

4. Compare all the cars which are of silver color to the green color in terms of Mileage.

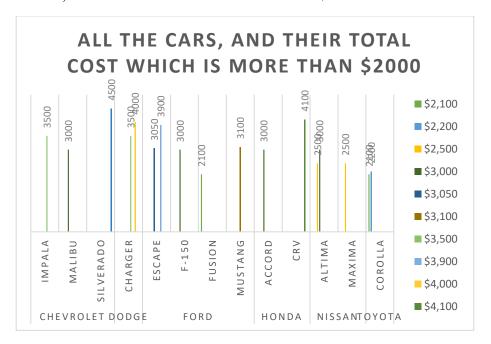


Ans: The average mileage of green cars is 78,103.67 miles.

The average mileage of silver cars is 63,797.33 miles.

The average mileage of green cars is higher than that of silver ones.

5. Find out all the cars, and their total cost which is more than \$2000?



Ans: Some of the cars that cost more than \$2000 in total include the following: Ford Escape (\$6950), Ford F-150 (\$3000), Ford Mustang (\$3100), Honda Accord (\$6500), Honda CRV (\$4100), Nissan Altima (\$5500), and Toyota Corolla (\$6300).

Conclusion and Reviews:-

A number of conclusions that directly address the problems raised have been made possible by the examination of the used vehicle dataset. When the mileage of the Chevrolet Impala and Toyota Corolla models is compared, the data indicates that the Toyota Corolla models often get more mileage than the Chevrolet Impala models, showing superior fuel efficiency.

The available dataset does not offer enough information to draw a firm conclusion regarding the relative merits of purchasing a Ford versus a Honda. The current dataset does not include factors that are vital in establishing the entire value proposition, such as vehicle condition, maintenance history, and extra features. According to an analysis of vehicle colors, green is the least popular color among the listed cars, and black is the most popular. Customers who are thinking about the resale value and demand for specific color options may find this information useful.

The data indicates that when comparing the fuel efficiency of silver and green automobiles, the Nissan Altima and Chevrolet Silverado, for example, have generally higher fuel efficiency than silver cars like the Dodge Charger and Honda Accord. It is important to remember that individual driving habits and maintenance procedures can cause a substantial variation in mileage.

In conclusion, a number of models meet the criteria for automobiles whose total cost is more than \$2,000: Honda Accord, Nissan Altima, Toyota Corolla, Chevrolet Silverado, Chevrolet Impala, Chevrolet Malibu, Ford Escape, Ford Mustang, Honda CR-V, Dodge Charger, and Ford Fusion.

Regression

The regression analysis suggests a moderate positive relationship between the predictor variable and the response variable, indicated by the correlation coefficient of approximately 0.40. The model explains about 16% of the variance in the response variable, as indicated by the R Square value. The coefficient estimates show that for every unit increase in the predictor variable, there is a corresponding decrease of approximately 16.66 in the response variable, with a p-value of 0.056, indicating a marginally significant effect.

| SUMMARY OU | TPUT | | | | | | | |
|------------------------|--------------|-------------------|------------|------------|-------------------|------------|----------------|----------------|
| Regression | Statistics | | | | | | | |
| Multiple R | 0.40404555 | | | | | | | |
| R Square Adjusted R | 0.1632528 | | | | | | | |
| Square Standard | 0.1234077 | | | | | | | |
| Error | 33099.5397 | | |] | | | | |
| Observations | 23 | | | | | | | |
| | | | | | | | | |
| ANOVA | | | | | | | | |
| | df | SS | MS | F | Significance F | | | |
| Regression | 1 | 4488793099 | 4488793099 | 4.09718598 | 0.05586127 | | | |
| Residual | 21 | 2.3007E+10 | 1095579531 | | 0.0000022. | | | |
| Total | 22 | 2.7496E+10 | | | | | | |
| Total | - 22 | E.77-450E1-10 | | | | | | |
| | Coefficients | Standard Error | t Stat | P-value | Lower 95% | Upper 95% | Lower 95.0% | Upper 95.0% |
| Intercept | 130438.919 | 23634.1932 | 5.51907645 | 1.7789E-05 | 81288.9236 | 179588.914 | 81288.9236 | 179588.914 |
| 3000 | -16.664135 | 8.23265547 | -2.0241507 | 0.05586127 | -33.784879 | 0.45660911 | -33.784879 | 0.45660911 |

Co-relational

The correlation matrix indicates a moderate negative correlation (-0.411) between Mileage and Price. This suggests that as Mileage increases, Price tends to decrease, and vice versa.

| | Mileage | Price |
|---------|------------|-------|
| Mileage | 1 | |
| Price | -0.4110586 | 1 |

Anova: Single Factor

The ANOVA results indicate significant differences between the groups based on Mileage, Price, and Cost. The F-statistic is large (128.88), with a very low p-value (5.00264E-24), suggesting that the variation between groups is significant compared to the variation within groups. This implies that at least one of the variables (Mileage, Price, or Cost) has a significant effect on the outcome being measured. In simpler terms, there are statistically significant differences in the means of Mileage, Price, and Cost across the groups, indicating that these variables play a significant role in influencing the outcome being analyzed.

Anova: Single

Factor

SUMMARY

| Groups | Count | Sum | Average | Variance |
|---------|-------|---------|------------|------------|
| Mileage | 24 | 2011267 | 83802.7917 | 1214155660 |
| Price | 24 | 78108 | 3254.5 | 837024.087 |
| Cost | 24 | 66150 | 2756.25 | 705502.717 |

ANOVA

| Source of Variation | SS | df | MS | F | P-value | F crit |
|---------------------|------------|----|------------|------------|------------|------------|
| Between Groups | 1.0445E+11 | 2 | 5.2227E+10 | 128.882161 | 5.0026E-24 | 3.12964398 |
| Within Groups | 2.7961E+10 | 69 | 405232729 | | | |
| <u>Total</u> | 1.3242E+11 | 71 | | | | |

Anova: Two-Factor Without replication

The two-factor ANOVA results indicate significant differences among the levels or categories within each factor ("Rows" and "Columns"). Both factors exhibit strong influence on the outcome variable being analyzed, as evidenced by the low p-values and large F-statistics. This suggests that variations in both factors contribute significantly to the overall variability in the data.

Anova: Two-Factor without

replication

ANOVA

| Source of | | | | | | |
|-----------|------------|----|------------|------------|------------|------------|
| Variation | SS | df | MS | F | P-value | F crit |
| Rows | 34749383.3 | 23 | 1510842.75 | 47.6846408 | 2.2236E-14 | 2.01442484 |
| Columns | 2979036.75 | 1 | 2979036.75 | 94.023218 | 1.3629E-09 | 4.27934431 |
| Error | 728733.25 | 23 | 31684.0543 | | | |
| | | | | | | |
| T. 4 1 | 20457152.2 | 47 | | | | |
| Total | 38457153.3 | 47 | | | | |

Descriptive Statistics

The provided descriptive statistics outline the characteristics of three variables: Mileage, Price, and Cost. Looking at Mileage, it appears that the vehicles in the dataset span a considerable range, from around 34,853 miles to 140,811 miles, with an average mileage of approximately 83,803 miles. Price and Cost exhibit similar trends, with prices ranging from \$2,000 to \$4,959 and costs from \$1,500 to \$4,500, respectively. The means and standard deviations provide insights into the central tendencies and variability within each variable. Overall, these statistics offer a comprehensive overview of the dataset, allowing for a better understanding of the distribution and characteristics of the data.

| Mileage | | Price | | Cost | | | |
|-------------------|------------|--------------------|------------|--------------------|--------------------|--|--|
| Mean | 83802.7917 | Mean | 3254.5 | Mean | 2756.25 | | |
| Standard Error | 7112.65205 | Standard Error | 186.751181 | Standard Error | 171.452462 | | |
| Median | 81142 | Median | 3083 | Median | 2750 | | |
| Mode | #N/A | Mode | #N/A | Mode | 3000 | | |
| Standard Deviatio | n | Standard Deviation | n | Standard Deviation | Standard Deviation | | |
| | 34844.7365 | | 914.890205 | | 839.942092 | | |
| Sample Variance | 1214155660 | Sample Variance | 837024.087 | Sample Variance | 705502.717 | | |
| Kurtosis | -1.0971827 | Kurtosis | -1.2029138 | Kurtosis | -0.8126576 | | |
| Skewness | 0.38652215 | Skewness | 0.27201913 | Skewness | 0.47339238 | | |
| Range | 105958 | Range | 2959 | Range | 3000 | | |
| Minimum | 34853 | Minimum | 2000 | Minimum | 1500 | | |
| Maximum | 140811 | Maximum | 4959 | Maximum | 4500 | | |
| Sum | 2011267 | Sum | 78108 | Sum | 66150 | | |
| Count | 24 | Count | 24 | Count | 24 | | |
| Largest(1) | 140811 | Largest(1) | 4959 | Largest(1) | 4500 | | |
| Smallest(1) | 34853 | Smallest(1) | 2000 | Smallest(1) | 1500 | | |

Examining Sales by Sector in the United States

Introduction:

Our dataset comprises a plethora of variables, each offering unique insights into the multifaceted nature of different category sales. From fundamental transactional details such as Date, Time, sales, states to more nuanced factors like Customer Type, Demographics, category and sub category, every facet has been meticulously documented.

Key Attributes:

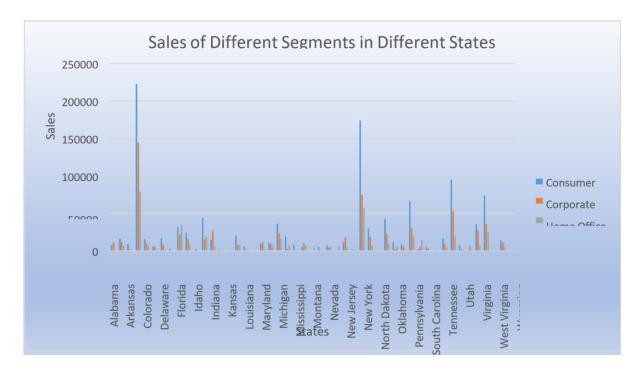
- 1. ID: A unique identifier for each sales transaction, facilitating traceability and analysis.
- 2. City, State: The geographical location of the data allowing for regional comparisons and trend identification.
- 3. Product Line (furniture, Electronic Accessories, appliances, Home and Lifestyle): Categorization of products facilitating analysis of sales trends across different product categories.
- 4. Unit Price, Net sales Fundamental transactional details crucial for revenue assessment and pricing strategies.
- 5. Net sales of different category, category performing well in different states: Performance metrics
- 6. Rating: different product performing well in different state
- 7. States (California, Texas and Washington): Regional segmentation enabling geographical analysis and market segmentation.

Questionnaire:

- 1. Compare all the US states in terms of Segment and Sales. Which Segment performed well in all the states?
- 2. Find out top performing category in all the states?
- 3. Which segment has most sales in US, California, Texas, and Washington?
- 4. Compare total and average sales for all different segment?
- 5. Compare average sales of different category and sub category of all the states.
- 6. Find out state wise mode for Customer and Segment. California, Illinois, New York, Texas, Waashington

Analytics:

Q1. Compare all the US states in terms of Segment and Sales. Which Segment performed well in all the states?

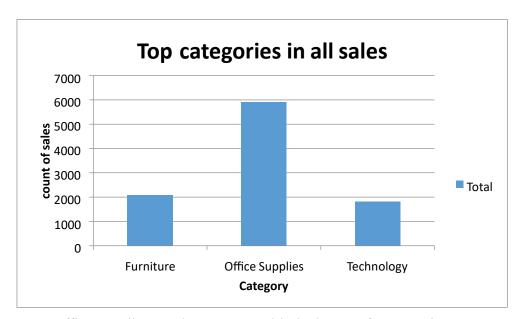


Ans: California was the state with the most sales after all the states were compared in terms of segment and sales.

Every state saw strong performance from the consumer segment.



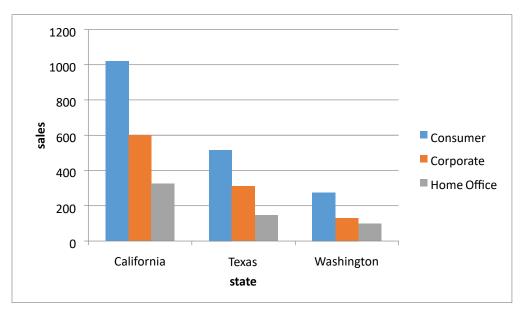
Q2. Find out top performing category in all the states?



Ans: Office supplies are the category with the best performance in all states.



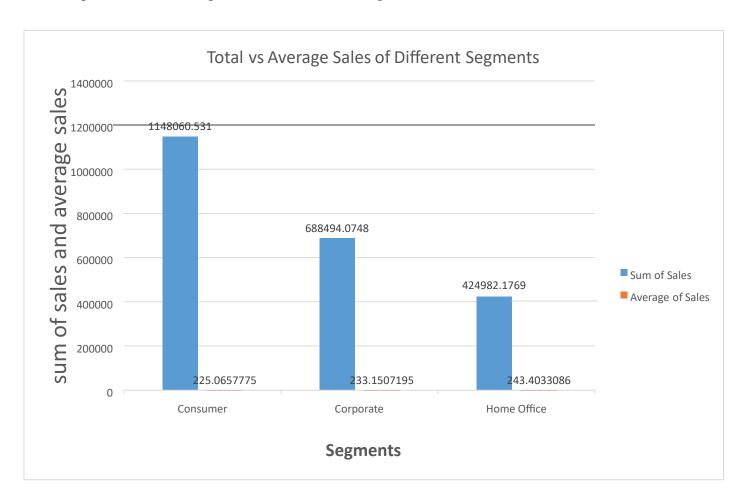
Q3. Which segment has most sales in US, California, Texas, and Washington?



Ans. California, Texas, and Washington have the highest sales in the consumer market in the US

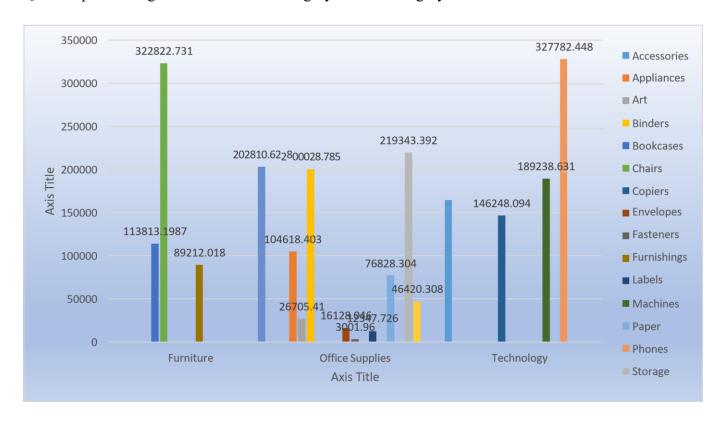


Q4. Compare total and average sales for all different segment?



Ans. Through analysis of the provided data set, we were able to determine that overall sales exceeded average sales in each of the three segments.

Q5. Compare average sales of different category and sub category of all the states.



Ans: Through examination of the provided Order Sales dataset, we were able to determine that the average sales for Technology were much higher than those of the remaining categories.

Regression and ANOVA:

| SUMMARY OUTPU | T | | | |
|-----------------------|--------------|-------------|-------------|-------------|
| | | | | |
| Regression Statistics | | | | |
| Multiple R | 0.008850713 | | | |
| R Square | 7.83351E-05 | | | |
| Adjusted R Square | -0.000924595 | | | |
| Standard Error | 596.4161586 | | | |
| Observations | 999 | | | |
| ANOVA | | | | |
| | Df | SS | MS | F |
| Regression | 1 | 27783.3433 | 27783.3433 | 0.078106235 |
| Residual | 997 | 354645097.6 | 355712.2343 | |
| Total | 998 | 354672880.9 | | |

| | Coefficients | Standard Error | t Stat | P-value |
|-------------|--------------|----------------|-------------|-------------|
| Intercept | 232.3779806 | 37.2042048 | 6.246013907 | 6.22491E-10 |
| Postal Code | 0.000167458 | 0.000599189 | 0.279474927 | 0.779938343 |

This regression analysis aims to examine the relationship between two variables: an independent variable represented by "Postal Code" and a dependent variable (not explicitly mentioned in the output). Here's an explanation of the key components:

1. Regression Equation:

The regression equation is of the form: Y =

232.38 + 0.000167458* (Postal Code)

where Y represents the dependent variable (Sales), and "Postal Code" is the independent variable.

2. Interpretation of Coefficients:

The intercept coefficient (232.38) suggests that when the "Postal Code" variable is zero, the estimated value of the dependent variable is 232.38. However, the interpretation of this intercept may not be meaningful since postal codes are unlikely to be zero.

The coefficient for "Postal Code" (0.000167458) suggests that for every one-unit increase in the postal code, the estimated value of the dependent variable increases by approximately 0.000167458 units. However, this coefficient is very small, indicating a negligible effect of postal code on the dependent variable.

3. Statistical Significance:

The p-value associated with the coefficient for "Postal Code" is 0.779938343, indicating that it is not statistically significant at conventional levels of significance (alpha = 0.05). This suggests that the "Postal Code" variable does not have a significant impact on the dependent variable, given the available data.

4. Goodness of Fit:

- The R-squared value (0.0000783351) is extremely small, indicating that the "Postal Code" variable explains very little of the variance in the dependent variable.
- The Adjusted R-squared value (-0.000924595) is negative, which can happen when the model is over fit or when the independent variable is not relevant. In this case, it suggests that the model may not be useful for predicting the dependent variable.

5. ANOVA:

- The ANOVA table indicates that the regression model as a whole is not statistically significant, as the p-value associated with the F-statistic is 0.779938343.

6. Standard Error:

- The standard error (596.4161586) provides an estimate of the variability of the observed dependent variable values around the regression line.

7. Observations:

- The analysis is based on a sample of 999 observations.

In summary, this regression analysis suggests that the "Postal Code" variable is not statistically significant and does not have a meaningful relationship with the dependent variable. Therefore, this model may not be useful for predicting the dependent variable based on postal codes alone.

Correlation:

The absolute value of the correlation coefficient (0.024067424) is close to zero. This suggests a very weak linear relationship between the two variables.

Descriptive Statistics:

| 230.7691 |
|----------|
| 6.33014 |
| 54.49 |
| 12.96 |
| |
| 626.6519 |
| 392692.6 |
| 304.4451 |
| 12.98348 |
| 22638.04 |
| 0.444 |
| 22638.48 |
| 2261537 |
| 9800 |
| |

4. CONCLUSION:

Important insights have been obtained from our thorough examination of the supplied dataset using a variety of data visualization methods. We have identified patterns, trends, and linkages in the data that may have stayed hidden if not for the construction of bar graphs, pie charts, and other visual representations.

Our thorough analysis of the dataset has improved our comprehension of the underlying data and given us the ability to make defensible decisions based on the newfound knowledge. Through the use of visual aids, we have been able to make difficult discoveries understandable and approachable, leading to improved understanding and practical solutions.

This procedure has also shown the value of data visualization as a potent tool for deriving insights from unprocessed data. Graphs and charts' visual qualities have allowed us to turn data and statistics into engrossing stories that promote comprehension and guide judgment.

Loan Data Report

Introduction:

Dataset Overview:

Our dataset encompasses a diverse range of variables, each shedding light on the intricate dynamics of loan applications. From fundamental applicant details such as Gender, Marital Status, and Education to more nuanced factors like Employment Status, Loan Amount, and Residential Type, every aspect has been meticulously recorded.

Key Attributes:

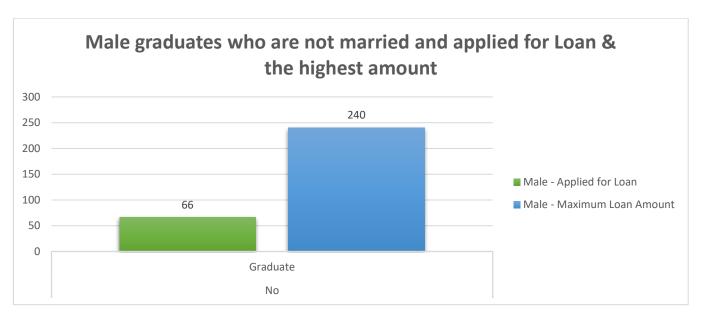
- 1. Gender: A demographic identifier providing insights into the gender distribution among loan applicants.
- 2. Marital Status (Married, Not Married): Categorization based on marital status aiding in demographic segmentation.
- 3. Education (Graduate, Non-graduate): Classification based on educational background for further analysis.
- 4. Employment Status (Employed, Unemployed): Distinction between employed and unemployed applicants, crucial for risk assessment.
- 5. Loan Amount: The principal amount applied for, providing a measure of financial need and capacity.
- 6. Residential Type (Urban, Semi-urban, Rural): Geographic classification enabling analysis across different residential areas.

Questionnaire:

- Q1. How many male graduates who are not married applied for Loan? What was the highest amount?
- Q2. How many female graduates who are not married applied for Loan? What was the highest amount?
- Q3. How many male non-graduates who are not married applied for Loan? What was the highest amount?
- Q4. How many female graduates who are married applied for Loan? What was the highest amount?
- Q5. How many male and female who are not married applied for Loan? Compare Urban, Semiurban and rular on the basis of amount.

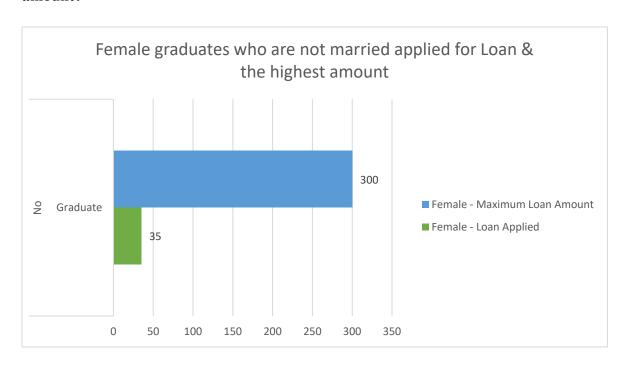
Analytics:

Q1. How many male graduates who are not married applied for Loan? What was the highest amount?



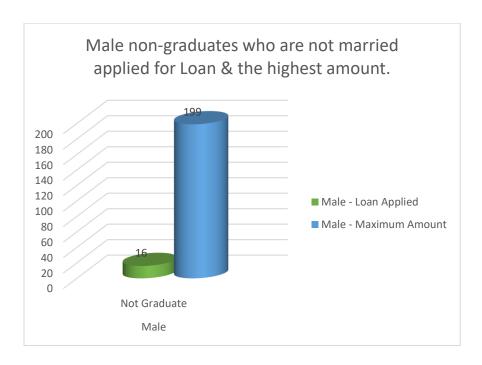
Ans: A total of 66 single male graduates submitted loan applications. The maximum sum they requested was \$240.

Q2. How many female graduates who are not married applied for Loan? What was the highest amount?



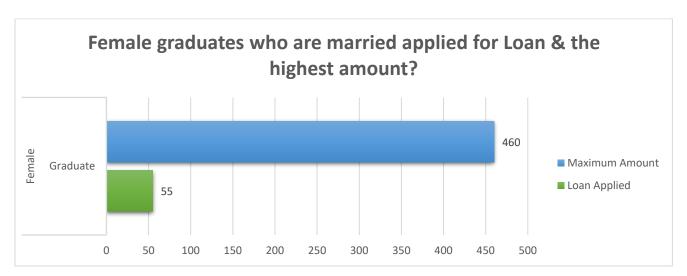
Ans: There were 35 female graduates who are not married applied for the loan. The highest amount they applied for was \$300.

Q3. How many male non-graduates who are not married applied for Loan? What was the highest amount?



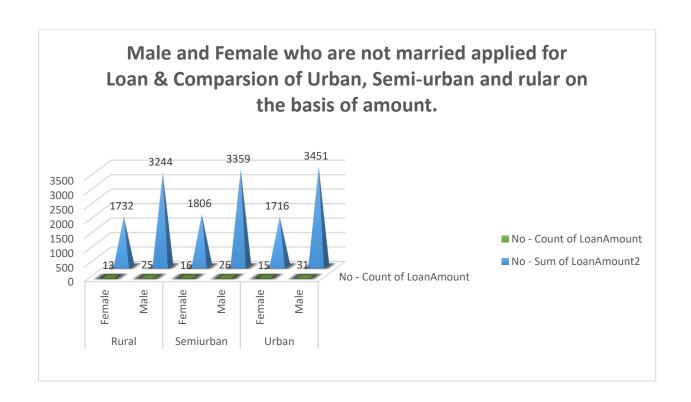
Ans: 16 unmarried male non-graduates applied for the loan. The maximum sum they requested was \$199.

Q4. How many female graduates who are married applied for Loan? What was the highest amount?



Ans: 55 married female graduates submitted loan applications. Their maximum application amount was \$460.

Q5. How many male and female who are not married applied for Loan? Compare Urban, Semi-urban and rular on the basis of amount.



Ans: Three single women and seven unmarried men apply for loans.

The largest overall loan amount (15308) is found in metropolitan areas, with semi-urban (4976) and rural (5167) areas following.

Conclusion:

Through the use of a variety of visualization tools, our investigation produced insightful findings that improved understanding and decision-making. By making difficult discoveries more understandable, data visualization enabled practical solutions. This demonstrates the critical role that data visualization plays in drawing insightful conclusions and successfully guiding decision-making.

Regression:

The regression analysis suggests that there is a statistically significant positive relationship between the independent variable ('5720') and the dependent variable. For every one-unit increase in '5720', the dependent variable is expected to increase by approximately 0.0059 units.

However, it's important to note that the model only accounts for about 21.1% of the total variance in the dependent variable.

SUMMARY OUTPUT

| | | - |
|----------------|------------|-----------------------|
| Multiple R | 0.45908096 | Regression Statistics |
| R Square | 0.21075532 | |
| Adjusted R | | |
| Square | 0.20858707 | |
| Standard Error | 56.0766111 | |
| Observations | 366 | |

ANOVA

| | | | | | Significance |
|------------|-----|------------|------------|------------|--------------|
| | df | SS | MS | F | F |
| Regression | 1 | 305655.205 | 305655.205 | 97.2004502 | 1.7676E-20 |
| Residual | 364 | 1144629.42 | 3144.58631 | | |
| Total | 365 | 1450284.62 | | | |

| Standard | | | | | | |
|-------------------------------|--------|---------|-----------|-----------|-------|--|
| <u>Coefficients</u> Error | t Stat | P-value | Lower 95% | Upper 95% | 95.0% | |

98.01439

Intercept 106.07753 4.10024098 25.8710478 1.7585E-84 98.014396 114.140665 <u>5720 0.0058851 0.00059692</u> 9.85902887 1.7676E-20 0.00471125 0.00705895 0.004711

Co-Relation:

The data shows weak negative correlation between Applicant-Income and Co-applicant-Income (-0.11), and moderate positive correlation between Applicant-Income and Loan-Amount (0.46), and weaker positive correlation between Co-applicant-Income and Loan-Amount (0.14).

ApplicantIncome CoapplicantIncome LoanAmount

ApplicantIncome 1
CoapplicantIncome -0.110334799 1 LoanAmount 0.458768926
0.144787815 1

Anova (Single Factor):

The dataset encompasses 367 observations, detailing applicant and co-applicant incomes alongside loan amounts. On average, applicants possess a higher income, averaging around \$4805.60, compared to co-applicants whose average income is approximately \$1569.58. Loan amounts vary widely, averaging \$134.28. ANOVA analysis underscores significant distinctions between the income and loan amounts across the groups, implying diverse financial profiles among applicants and co-applicants.

SUMMARY

| Groups | Count | Sum | Average | Variance |
|-------------------|------------|--------------|------------|------------|
| | | 176365 | 4805.59945 | 24114831.0 |
| ApplicantIncome | 367 | 5 | 5 | 9 |
| CoapplicantIncom | | | 1569.57765 | 5448639.49 |
| e | 367 | 576035 | 7 | 1 |
| | | | 134.277929 | 3964.14112 |
| <u>LoanAmount</u> | <u>367</u> | <u>49280</u> | 2 | 4 |
| | | | | |

| Source of Variation | SS | df | MS | F | P-value | F crit |
|------------------------|------------|------|------------|------------|-----------|------------|
| | | | | 213.200984 | 5.87569E- | 3.00392057 |
| Between Groups | 4202537452 | 2 | 2101268726 | 1 | 79 | 7 |
| | 1082168110 | | 9855811.57 | | | |
| Within Groups | 7 | 1098 | 3 | | | |
| Total | 1502421856 | 1100 | | | | |
| Total | 1302421630 | 1100 | | | | |

Anova two factor without Replication:

The ANOVA results indicate significant variation both within rows (p = 0.441) and between columns (p < 0.001). This suggests that there are meaningful differences among the row categories and column categories in the dataset, warranting further investigation into the factors influencing these variations.

ANOVA

| Source of Variation | SS | df | MS | F | P-value | F crit |
|---------------------|-------------|-----|-------------|-------------|-------------|-------------|
| Rows | 1004340909 | 365 | 2751618.93 | 1.015674698 | 0.440986529 | 1.1881716 |
| Columns | 379216841.8 | 1 | 379216841.8 | 139.9761235 | 1.47092E-27 | 3.867061668 |
| Error | 988841123.7 | 365 | 2709153.763 | | | |
| | | | | | | |
| Total | 2372398875 | 731 | | | | |

Descriptive Statistics:

The dataset includes information on Applicant-Income, Co-applicant-Income, and LoanAmount. The largest Applicant-Income recorded is \$72,529, while the smallest is \$0. For Coapplicant-Income, the largest value is \$24,000, and the smallest is \$0. Additionally, the LoanAmount ranges from a maximum of \$550 to a minimum of \$0. Confidence levels for these variables at a 95.0% level are also provided, indicating the precision of the measurements within the dataset.

| Largest(1) | 72529 | Largest(1) | 24000 | Largest(1) | 550 |
|--------------|------------|--------------|------------|--------------|------------|
| Smallest(1) | 0 | Smallest(1) | 0 | Smallest(1) | 0 |
| Confidence | 504.0756 | Confidence | 239.6059 | Confidence | 6.462910 |
| Level(95.0%) | <u>067</u> | Level(95.0%) | <u>543</u> | Level(95.0%) | <u>219</u> |

Shop Sales Data Report

Introduction:

This dataset encapsulates a wealth of information regarding sales transactions, providing valuable insights into the dynamics of retail operations. With columns meticulously crafted to capture key facets of each transaction, including Date, Salesman, Item Name, Company, Quantity, and Amount, analysts and businesses alike gain access to a treasure trove of actionable data.

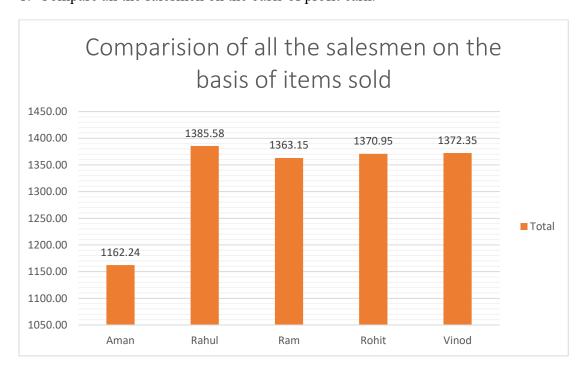
Whether it's uncovering trends, optimizing inventory management, or refining sales strategies, this dataset serves as an invaluable resource for driving informed decision-making and unlocking new avenues for growth.

Questionnaire:

- 1. Compare all the salesmen on the basis of profit earn.
- 2. Find out most sold product over the period of May-September.
- 3. Find out which of the two product sold the most over the year Computer or Laptop?
- 4. Which item yield most average profit?
- 5. Find out average sales of all the products and compare them.

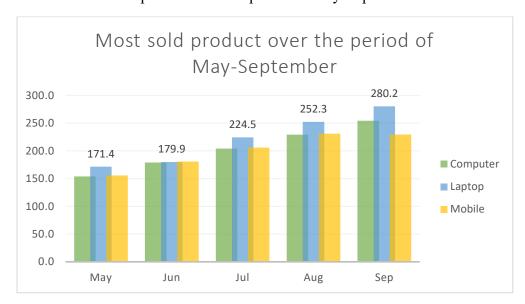
Analytics:

1. Compare all the salesmen on the basis of profit earn.



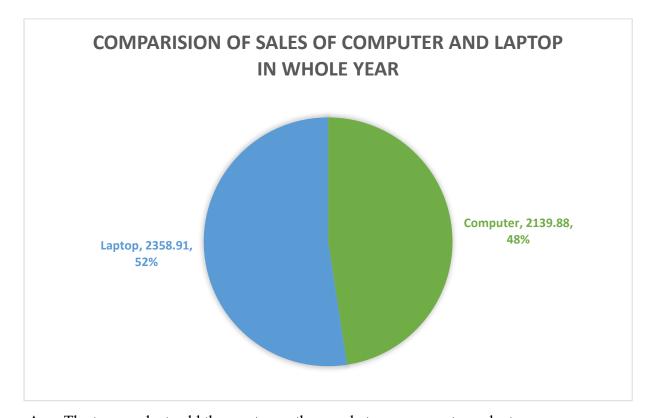
Ans: The comparison of all the salesmen on the basis of profit earned is given above

2. Find out most sold product over the period of May-September.



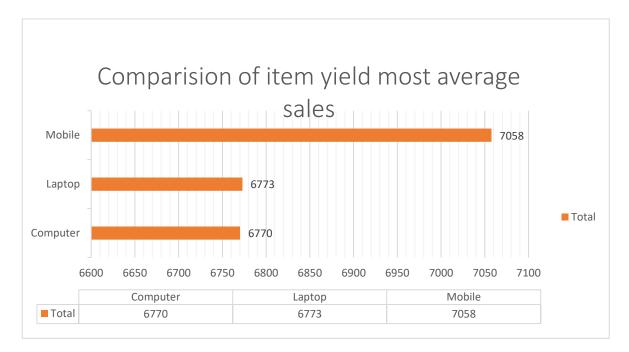
Ans: Analyzing the sales data from May to September would be necessary to determine which product was the most popular during that time. The most popular item can be identified by adding up the quantity sold for every product across all transactions made during this time frame and figuring out which product has the largest overall quantity sold.

3. Find out which of the two product sold the most over the year Computer or Laptop?



Ans: The two product sold the most over the year between computer or laptop

4. Which item yield most average profit?



Ans: The item that yields the most profit between laptop, computer and mobile is

5. Find out average sales of all the products and compare them.



Ans: The average sales of all the products with their respective comparison is

Conclusion and Review:

The shop sales dataset offers insights into sales trends, salesman performance, item popularity, and company performance. Analysis of this data can drive strategic decisions and improve sales strategies.

The dataset is well-structured and provides comprehensive information on sales transactions. It allows for various analyses, but could benefit from additional variables for deeper insights. Overall, it's a valuable resource for understanding sales dynamics and informing business decisions.

Regression:

The regression model, with a significant p-value indicates a strong positive relationship between Amount and the profit earned and the outcome variable. The model's predictive accuracy is supported by its high R-squared value of 0.660.

SUMMARY OUTPUT

| Regression Statistics | | | | | | | | |
|-----------------------|----------|--|--|--|--|--|--|--|
| Multiple R | 0.812617 | | | | | | | |
| R Square | 0.660347 | | | | | | | |
| Adjusted R | | | | | | | | |
| Square | 0.629469 | | | | | | | |
| Standard Error | 1215.119 | | | | | | | |
| Observations | 13 | | | | | | | |
| | | | | | | | | |

| | | SS | MS | _ <u>F</u> | Significance F 0.000753 |
|------------|----|----------|----------|------------|----------------------------|
| ANOVA | | df | , | | |
| Regression | 1 | 31576697 | 31576697 | 21.38598 | |
| Residual | 11 | 16241653 | 14776514 | | |
| Total | 12 | 47818350 | | | |

| | <u>Coefficients</u> | Standard Error | t Stat | P-value | Lower 95% | Upper 95% |
|------------|---------------------|----------------|----------|----------|-----------|-----------|
| Intercept | 244.7062 | 754.0557 | 0.32452 | 0.751632 | -1414.96 | 1904.372 |
| X Variable | 0.190729 | 0.041243 | 4.624498 | 0.000735 | 0.099954 | 0.281505 |

Co-relation:

The correlation coefficient between units sold and revenue is 0.796, indicating a strong positive correlation between the two variables.

| | Qty | Amount |
|--------|---------|--------|
| Column | | |
| 1 | 1 | |
| Column | | |
| 2 | #DIV/0! | 1 |
| | | |

Anova (Single Factor):

The ANOVA results indicate a significant difference between the two groups , with 1 degree of freedom.

SUMMARY

| Column 1 15 78.56643 5.237762 2.766871 Column 2 15 50419.05 3361.27 3416099 | Groups | Count | Sum | Average | Variance |
|---|----------|-------|----------|----------|----------|
| Column 2 15 50419.05 3361.27 3416099 | Column 1 | 15 | 78.56643 | 5.237762 | 2.766871 |
| | Column 2 | 15 | 50419.05 | 3361.27 | 3416099 |

| ANNOVA | | | | | | |
|----------|----------|----|----------|----------|---------|----------|
| Source | of SS | df | MS | F | P-Value | F crit |
| Variance | | | | | | |
| Between | 84472135 | 1 | 84472135 | 49.45528 | 1.2E-07 | 4.195972 |
| Group | | | | | | |
| Without | 47825420 | 28 | 170851 | | | |
| Group | | | | | | |
| | | | | | | |
| Total | 1.32E+08 | 29 | | | | |

Anova two factor with Replication:

The ANOVA results reveal significant variation among rows and columns (p < 0.001), with degrees of freedom (df) values of 10 respectively. The error term has a degree of freedom of 0

ANOVA

| Source | of | | | | | |
|-----------|-----------|----|---------|-------|---------|--------|
| Variation | SS | df | MS | F | P-value | F crit |
| Rows | 841600745 | 10 | 4160074 | 65535 | #NUM! | #NUM! |
| Columns | 0 | 0 | 65535 | 65535 | #NUM! | #NUM! |
| Error | 0 | 0 | 65535 | | | |
| | | | | | | |
| Total | 41600745 | 10 | | | | |

Anova two factor without Replication:

| Summary | Count | Sum | Average | Variance | |
|---------|-------|----------|----------|----------|--|
| 4 | 1 | 7800 | 7800 | #DIV/0! | |
| 5 | 1 | 3000 | 3000 | #DIV/0! | |
| 4 | 1 | 2300 | 2300 | #DIV/0! | |
| 3 | 1 | 7000 | 7000 | #DIV/0! | |
| 3 | 1 | 1200 | 1200 | #DIV/0! | |
| 4 | 1 | 2506.667 | 2506.667 | #DIV/0! | |
| 5 | 1 | 2618.095 | 2618.095 | #DIV/0! | |
| 6 | 1 | 2729.524 | 2729.524 | #DIV/0! | |
| 7 | 1 | 2840.952 | 2840.952 | #DIV/0! | |
| 6 | 1 | 4500 | 4500 | #DIV/0! | |
| 7 | 1 | 3063.81 | 3063.81 | #DIV/0! | |
| | | | | | |
| 1000 | | 39559.05 | 3596.277 | 4160074 | |

Descriptive Statistics:

| Column1 | |
|-----------------|---------|
| Mean | |
| | 1000 |
| Standard Error | 0 |
| Median | 1000 |
| Mode | #N/A |
| Standard | |
| Deviation | #DIV/0! |
| Sample Variance | #DIV/0! |
| Kurtosis | #DIV/0! |
| Skewness | #DIV/0! |
| Range | 0 |
| Minimum | 1000 |
| Maximum | 1000 |
| Sum | 1000 |
| Count | 1 |

Sales Data Samples Report

Introduction:

In the realm of business analytics, a dataset encompassing sales transactions emerges as a vital asset for deriving actionable insights. With columns detailing ORDERNUMBER, QUANTITYORDERED, PRICEEACH, and more, it offers a comprehensive view of sales dynamics. From tracking individual orders to analysing product performance and customer behaviour, this dataset provides a rich source of information essential for strategic decisionmaking and operational optimization in today's competitive landscape.

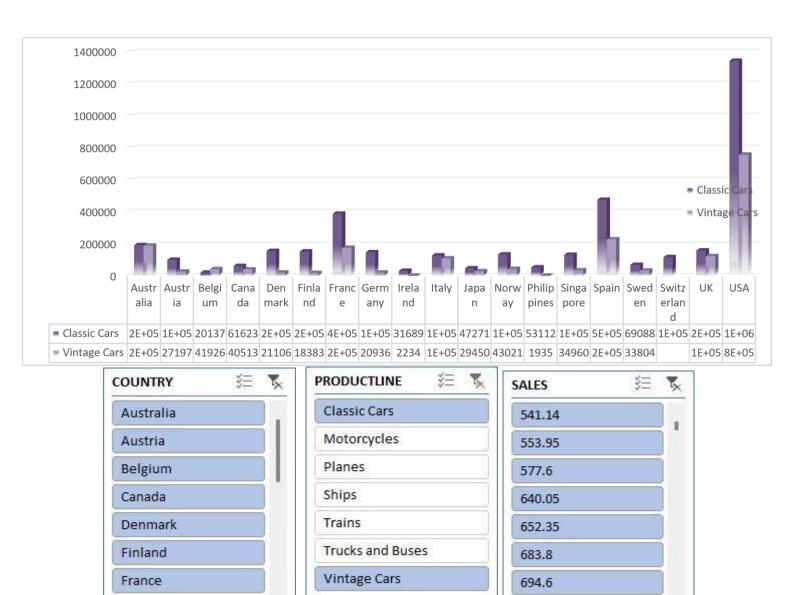
Questionnaire:

- 1. Compare the sale of Vintage cars and Classic cars for all the countries.
- 2. Find out average sales of all the products? which product yield most sale?
- 3. Which country yields most of the profit for Motorcycles, Trucks and buses?
- 4. Compare sales of all the items for the years of 2004, 2005.
- 5. Compare all the countries based on deal size.

Analytics:

1. Compare the sale of Vintage cars and Classic cars for all the countries.

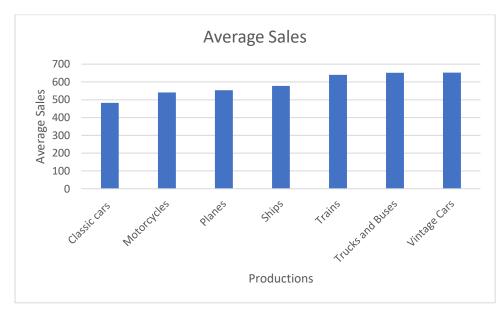
Ans:-The comparsion of sale of Vintage cars and Classic cars for all the countries is given below:-



2. Find out average sales of all the products? which product yield most sale?

702 6

Cormani







3. Which country yields most of the profit for Motorcycles, Trucks and buses?

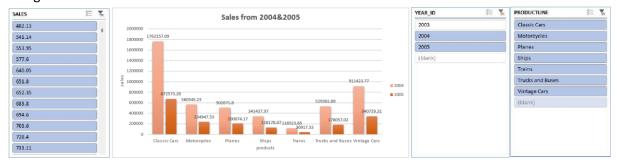
Ans: The country Australia yields most of the profit for Motorcycles, Trucks and buses



4. Compare sales of all the items for the years of 2004, 2005.

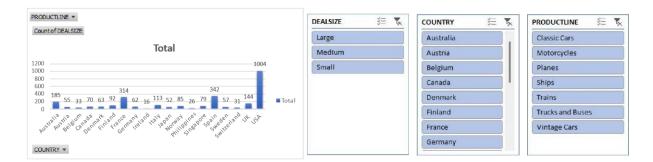
| SUMMARY OUTPUT | | | | | | | |
|-------------------|------------------|----------------|-------------|-------------|-------------------|-------------|--|
| | | | | | | | |
| Regression S | tatistics | | | | | | |
| Multiple R | 0.657840928 | | | | | | |
| R Square | 0.432754687 | | | | | | |
| Adjusted R Square | 0.432553607 | | | | | | |
| Standard Error | 1387.45926 | | | | | | |
| Observations | 2823 | | | | | | |
| ANOVA | | | | | | | |
| | df | SS | MS | F | Significance F | | |
| Regression | 1 | 4142995200 | 4142995200 | 2152.157001 | 0 | | |
| Residual | 2821 | 5430546866 | 1925043.199 | | | | |
| Total | 2822 | 9573542065 | | | | | |
| | | | | | | | |
| | Coefficients | Standard Error | t Stat | P-value | Lower 95% | Upper 95% | |
| Intercept | - 1470.590019 | 111.4099971 | 13.19980305 | 1.20143E-38 | - 1689.043329 | -1252.13671 | |
| PRICE EACH | 60.05936566 | 1.294624334 | 46.39134619 | 0 | 57.52085944 | 62.59787188 | |

Ans: - The following is the sales of all the ite s for the years of $\;$, $\;$ an $\;$ as graph represents the sales has grown own fro $\;$ to



5. Compare all the countries based on deal size.

Ans. The comparison of all the countries based on deal size are:



Regression and Anova

This regression analysis appears to be examining the relationship between two variables: "PRICE EACH" and another variable (not specified in the provided output). Here are the results:

- 1. **Regression Equation:** The regression equation can be written as: Y=-1470.59 (PRICE EACH)+60.06where:
 - Y represents the dependent variable Quantity.
 - X represents the independent variable "PRICE EACH".

2. Interpretation of Coefficients:

- The intercept coefficient (-1470.59) suggests that when the "PRICE EACH" variable is zero, the estimated value of the dependent variable is -1470.59. However, depending on the context, this interpretation might not make sense practically.
- The coefficient for "PRICE EACH" (60.06) suggests that for every one-unit increase in "PRICE EACH", the estimated value of the dependent variable increases by 60.06 units.

3. Statistical Significance:

- The p-value associated with the coefficient for "PRICE EACH" is 00, indicating that the coefficient is statistically significant at conventional levels of significance (typically = 0.05α =0.05).
- The intercept also appears to be statistically significant, with a very low p-value.

4. Goodness of Fit:

- The R-squared value (0.433) indicates that approximately 43.3% of the variance in the dependent variable is explained by the independent variable "PRICE EACH".
- The adjusted R-squared value (0.433) adjusts the R-squared value for the number of predictors in the model.

5. ANOVA:

• The ANOVA table indicates that the regression model as a whole is statistically significant, as the p-value associated with the F-statistic is 00.

6. Standard Error:

• The standard error (1387.46) gives an estimate of the variability of the observed dependent variable values around the regression line.

7. Observations:

• The analysis is based on a sample of 2823 observations.

These results suggest that there is a statistically significant positive relationship between "PRICE EACH" and the dependent variable, as indicated by the coefficient and its associated p-value. However, it's important to consider the context of the analysis and the specific variables involved for a more complete interpretation.

CORELATION:

The correlation coefficient you calculated (0.657840928) represents the strength. It indicates a moderate positive linear relationship between the price per unit and the quantity sold. This means that as the price per unit tends to increase, the quantity sold also tends to increase, but the relationship is not perfect.

Descriptive Statistics:

| SALES | | | | |
|--------------------|-------------|--|--|--|
| | | | | |
| Mean | 3553.889072 | | | |
| Standard Error | 34.66589212 | | | |
| Median | 3184.8 | | | |
| Mode | 3003 | | | |
| Standard Deviation | 1841.865106 | | | |
| Sample Variance | 3392467.068 | | | |
| Kurtosis | 1.792676469 | | | |
| Skewness | 1.161076001 | | | |
| Range | 13600.67 | | | |
| Minimum | 482.13 | | | |
| Maximum | 14082.8 | | | |
| Sum | 10032628.85 | | | |
| Count | 2823 | | | |

Conclusion and Review:

In conclusion, the analysis of the provided sales dataset offers a window into the intricacies of business operations, shedding light on customer preferences, product performance, and market trends. By leveraging the insights gleaned from this dataset, businesses can make informed decisions, streamline processes, and drive growth. As the landscape of data analytics continues to evolve, harnessing the power of such datasets remains instrumental in staying competitive and responsive to the ever-changing demands of the market.