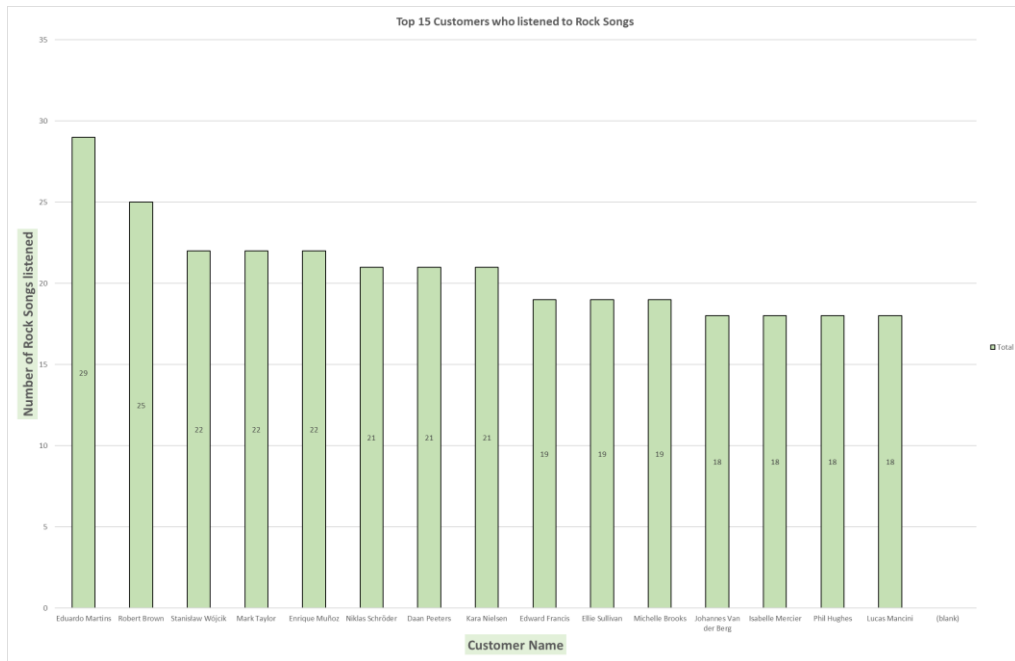


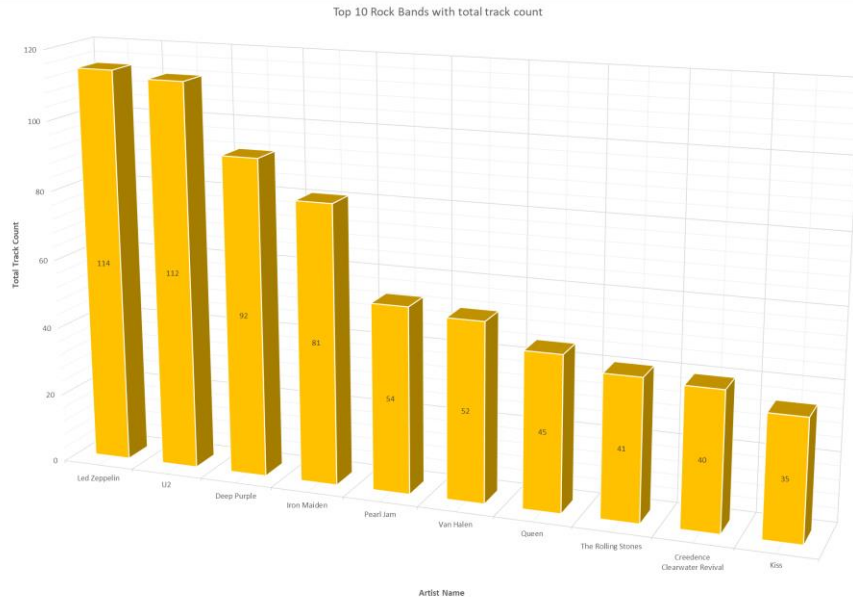
Analysis of Chinook Music Database

Analysis of Top 15 Customers who had listened to Rock Songs



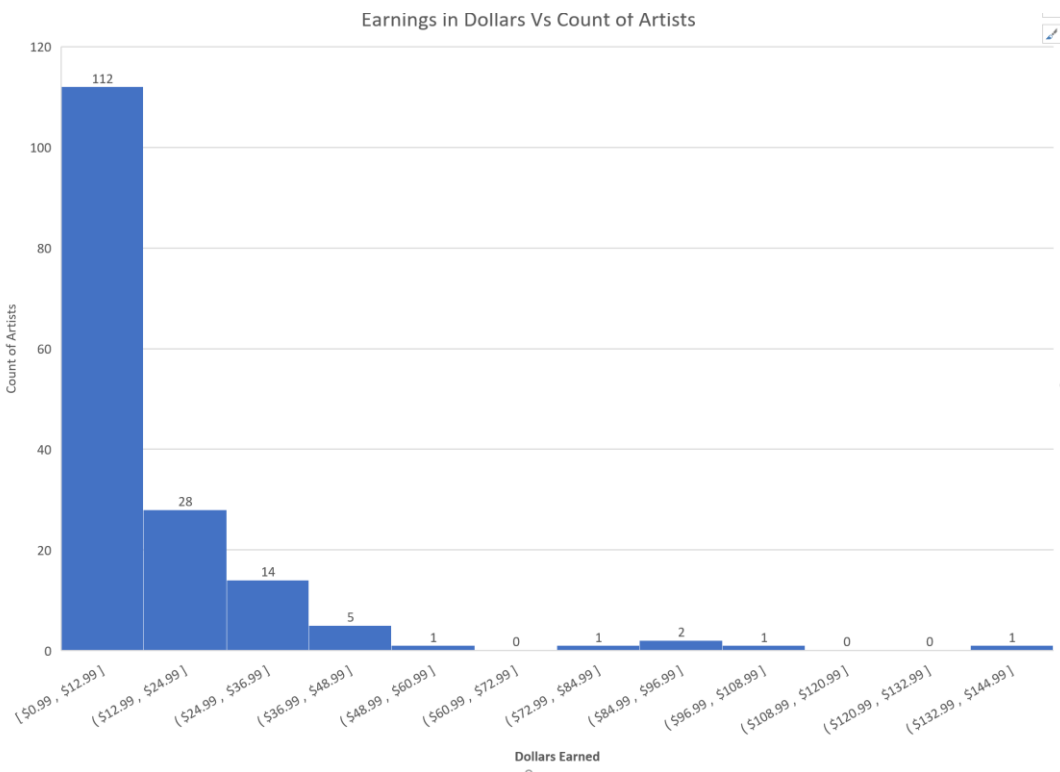
- This chart shows the Analysis of Top 15 Customers who had listened to Rock Songs in Descending order of song count.
- Customer “Eduardo Martins” had listened to most Rock songs with a count of 29.
- Customers “Johannes Van der Berg”, “Isabelle Mercier”, “Phil Hughes” and “Lucas Mancini” had listened to the least number of Rock Songs with a count of 18.

Top 10 Rock Bands by Track Count



- This chart shows Top 10 Rock Bands by Track Count in descending order.
- Among Top 10 Rock Bands, "Led Zeppelin" has most count of tracks with a count of 114
- Among Top 10 Rock Bands, "Kiss" has least count of tracks with a count of 35
- Among Top 10 Rock Bands, "U2" trails behind "Led Zeppelin" with a count of 112 tracks

Earnings in Dollars Vs Count of Artists



The histogram shows the count of Artists by the dollars earned. The histogram is right skewed, therefore the mean for each is higher than the median. The calculated values are as below

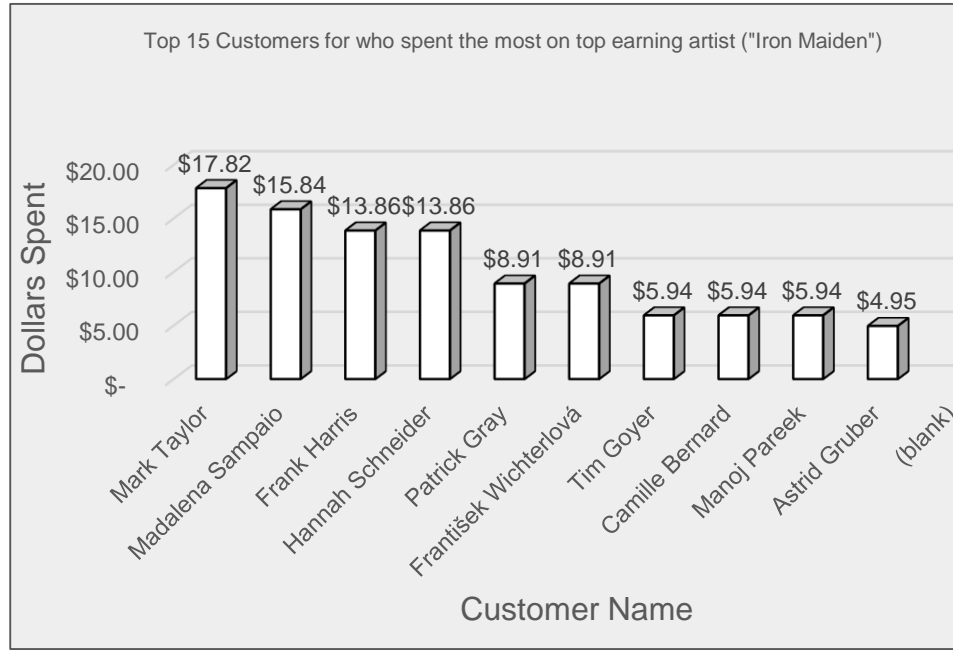
Mean	\$	14.11
Median	\$	7.92
Mode	\$	0.99
Standard Deviation	\$	19.00
Range	\$	137.61
Variance	\$	361.15
MAX	\$	138.60
MIN	\$	0.99

The mode indicates the most frequent occurrence which in this case is \$0.99

Standard deviation measures how far the data values lie from the mean. The histogram indicates a high standard deviation as the data points are spread out over a wider range of values which is confirmed by the range of 137.61. This is due to the outliers in data.

Lets take the mean and move one standard deviation in either direction. The mean here is 14.11 and the standard deviation is 19. We have: $14.11 + 19 = 33.11$ and $14.11 - 19 = -4.89$. What this means is that most of the artists earned between $-\$4.89$ to $\$33.11$ dollars. The median of these 2 numbers $(-4.89 + 33.11)/2 = 14.11$ matches with the mean of the data set which is again 14.11. This confirms that our calculations are correct.

Top 10 Customers for who spent the most on top earning artist ("Iron Maiden")



- This chart shows Top 10 Customers for who spent the most on top earning artist ("Iron Maiden") in descending order of dollars spent.
- Customer Mark Taylor had spent the most on "Iron Maiden" with amount spent totaling \$17.82
- Customer Astrid Gruber had spent the least on "Iron Maiden" with amount spent totaling \$4.95
- On an average, top 10 customers had spent \$10.19 on "Iron Maiden"