

ds

Sruthi Chandana

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Data Science Case Study

Dataset: Kaggle

Name: Sruthi Chandana

Reg NO: VU22CSEN0100291

Dataset used: FinancialStatements.csv

Initiation or Data Loading

```
library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

library(tidyr)
library(ggplot2)
data <- read.csv("/Users/sruthichandanakandipilli/Desktop/FinancialStatements.csv")
```

Columns in the dataset

```
print(colnames(data))

## [1] "Year" "Company"
## [3] "Category" "Market.Cap.in.B.USD."
## [5] "Revenue" "Gross.Profit"
## [7] "Net.Income" "Earning.Per.Share"
## [9] "EBITDA" "Share.Holder.Equity"
## [11] "Cash.Flow.from.Operating" "Cash.Flow.from.Investing"
## [13] "Cash.Flow.from.Financial.Activities" "Current.Ratio"
## [15] "Debt.Equity.Ratio" "ROE"
## [17] "ROA" "ROI"
## [19] "Net.Profit.Margin" "Free.Cash.Flow.per.Share"
```

```
## [21] "Return.on.Tangible.Equity"      "Number.of.Employees"
## [23] "Inflation.Rate.in.US."
```

Dataset Representation

```
head(data)
```

```
##   Year Company Category Market.Cap.in.B.USD. Revenue Gross.Profit Net.Income
## 1 2022   AAPL      IT      2066.94  394328      170782      99803
## 2 2021   AAPL      IT      2913.28  365817      152836      94680
## 3 2020   AAPL      IT      2255.97  274515      104956      57411
## 4 2019   AAPL      IT      1304.76  260174      98392      55256
## 5 2018   AAPL      IT       748.54  265595      101839      59531
## 6 2017   AAPL      IT       868.87  229234      88186      48351
##   Earning.Per.Share EBITDA Share.Holder.Equity Cash.Flow.from.Operating
## 1          6.1100 130541          50672          122151
## 2          5.6100 120233          63090          104038
## 3          3.2800 77344          65339           80674
## 4          2.9700 76477          90488           69391
## 5          2.9800 81801          107147           77434
## 6          2.3025 71501          134047           64225
##   Cash.Flow.from.Investing Cash.Flow.from.Financial.Activities Current.Ratio
## 1          -22354          -110749           0.8794
## 2          -14545          -93353           1.0746
## 3          -4289          -86820           1.3636
## 4          45896          -90976           1.5401
## 5          16066          -87876           1.1329
## 6          -46446          -17974           1.2761
##   Debt.Equity.Ratio      ROE      ROA      ROI Net.Profit.Margin
## 1          2.3695 196.9589 28.2924 66.6994          25.3096
## 2          1.9768 150.0713 26.9742 54.9839          25.8818
## 3          1.7208 87.8664 17.7256 35.0054          20.9136
## 4          1.1940 61.0645 16.3230 30.3113          21.2381
## 5          1.0685 55.5601 16.2775 29.6348          22.4142
## 6          0.8630 36.0702 12.8826 20.9082          21.0924
##   Free.Cash.Flow.per.Share Return.on.Tangible.Equity Number.of.Employees
## 1          1.3146          196.9589          164000
## 2          1.3261          150.0713          154000
## 3          1.0183           87.8664          147000
## 4          -0.0388           61.0645          137000
## 5          0.7414           55.5601          132000
## 6          0.0330           36.0702          123000
##   Inflation.Rate.in.US.
## 1          8.0028
## 2          4.6979
## 3          1.2336
## 4          1.8122
## 5          2.4426
## 6          2.1301
```

Summary of data

```
summary(data)
```

```
##      Year      Company      Category      Market.Cap.in.B.USD.
## Min.   :2009   Length:161   Length:161   Min.    : 0.04
## 1st Qu.:2012   Class :character   Class :character   1st Qu.: 41.16
## Median :2016   Mode  :character   Mode  :character   Median : 113.14
## Mean   :2016                                     Mean   : 337.60
## 3rd Qu.:2019                                     3rd Qu.: 357.11
## Max.   :2023                                     Max.   :2913.28
##                                     NA's   :1
##      Revenue      Gross.Profit      Net.Income      Earning.Per.Share
## Min.   : 3326   Min.   : 1174   Min.   :-12244   Min.   :-90.4800
## 1st Qu.: 22820   1st Qu.: 10396   1st Qu.: 844     1st Qu.: 0.3400
## Median : 45992   Median : 19561   Median : 4758    Median : 1.7900
## Mean   : 75863   Mean   : 37383   Mean   : 12277    Mean   : 0.9829
## 3rd Qu.: 77849   3rd Qu.: 47722   3rd Qu.: 14136    3rd Qu.: 3.2400
## Max.   :513983   Max.   :225152   Max.   : 99803    Max.   : 14.9800
##
##      EBITDA      Share.Holder.Equity      Cash.Flow.from.Operating
## Min.   : -6860   Min.   : -8210   Min.   : -39392
## 1st Qu.: 2310    1st Qu.: 12353   1st Qu.: 3502
## Median : 9958    Median : 47791   Median : 7387
## Mean   : 20174   Mean   : 57178   Mean   : 20790
## 3rd Qu.: 27765   3rd Qu.: 91571   3rd Qu.: 31626
## Max.   :130541   Max.   :256144   Max.   :122151
##
##      Cash.Flow.from.Investing      Cash.Flow.from.Financial.Activities      Current.Ratio
## Min.   : -59611.0                 Min.   : -110749.0                 Min.   : 0.2205
## 1st Qu.: -17434.0                 1st Qu.: -9059.3                  1st Qu.: 1.0000
## Median : -5904.0                  Median : -1408.0                  Median : 1.3412
## Mean   : -9581.5                  Mean   : -8598.2                  Mean   : 2.0354
## 3rd Qu.: -981.6                   3rd Qu.: 735.3                   3rd Qu.: 2.4734
## Max.   : 49749.0                 Max.   : 25928.0                  Max.   :10.6178
##
##      Debt.Equity.Ratio      ROE      ROA      ROI
## Min.   : -11.7750   Min.   : -212.61   Min.   : -23.7236   Min.   : -742.105
## 1st Qu.: 0.0772    1st Qu.: 5.08     1st Qu.: 0.8282    1st Qu.: 2.758
## Median : 0.3818    Median : 14.50    Median : 6.6411    Median : 13.469
## Mean   : 0.6455    Mean   : 12.43    Mean   : 7.7805    Mean   : 11.881
## 3rd Qu.: 0.8914    3rd Qu.: 28.19    3rd Qu.: 14.7016    3rd Qu.: 20.472
## Max.   : 9.3328    Max.   : 196.96    Max.   : 31.1541    Max.   : 884.861
##
##      Net.Profit.Margin      Free.Cash.Flow.per.Share      Return.on.Tangible.Equity
## Min.   : -44.696   Min.   : -121.5022   Min.   : -554.174
## 1st Qu.: 4.828     1st Qu.: -0.3613    1st Qu.: 6.112
## Median : 15.298    Median : 0.2656     Median : 19.782
## Mean   : 13.685    Mean   : 0.1928     Mean   : 24.247
## 3rd Qu.: 22.934    3rd Qu.: 0.9354     3rd Qu.: 36.981
## Max.   : 36.686    Max.   : 137.3287    Max.   :1197.727
##
##      Number.of.Employees      Inflation.Rate.in.US.
## Min.   : 5420                 Min.   : -0.3555
```

```
## 1st Qu.: 29900      1st Qu.: 1.2616
## Median : 96000      Median : 1.8122
## Mean : 145719      Mean : 2.2313
## 3rd Qu.: 147000     3rd Qu.: 2.4426
## Max. :1608000      Max. : 8.0028
##
```

DATA MANIPULATION IN R

1. Filter: Companies with Market Cap greater than 100 billion

```
filtered_data <- data %>%
  filter(Market.Cap.in.B.USD. > 100)
cat("Number of rows after filtering:", nrow(filtered_data), "\n")
```

```
## Number of rows after filtering: 87
```

```
print("Filtered Data:")
```

```
## [1] "Filtered Data:"
```

```
print(filtered_data)
```

```
##      Year Company Category Market.Cap.in.B.USD. Revenue Gross.Profit Net.Income
## 1  2022    AAPL      IT          2066.94 394328.0   170782.000   99803.0
## 2  2021    AAPL      IT          2913.28 365817.0   152836.000   94680.0
## 3  2020    AAPL      IT          2255.97 274515.0   104956.000   57411.0
## 4  2019    AAPL      IT          1304.76 260174.0    98392.000   55256.0
## 5  2018    AAPL      IT           748.54 265595.0   101839.000   59531.0
## 6  2017    AAPL      IT           868.87 229234.0    88186.000   48351.0
## 7  2016    AAPL      IT           617.59 215639.0    84263.000   45687.0
## 8  2015    AAPL      IT           586.86 233715.0    93626.000   53394.0
## 9  2014    AAPL      IT           647.36 182795.0    70537.000   39510.0
## 10 2013    AAPL      IT           504.79 170910.0    64304.000   37037.0
## 11 2012    AAPL      IT           500.61 156508.0    68662.000   41733.0
## 12 2011    AAPL      IT           376.40 108249.0    43818.000   25922.0
## 13 2010    AAPL      IT           296.89  65225.0    25684.000   14013.0
## 14 2009    AAPL      IT           189.80  42905.0    17222.000    8235.0
## 15 2023   MSFT      IT          2451.23 211915.0   146052.000   72361.0
## 16 2022   MSFT      IT          1787.73 198270.0   135620.000   72738.0
## 17 2021   MSFT      IT          2525.08 168088.0   115856.000   61271.0
## 18 2020   MSFT      IT          1681.61 143015.0    96937.000   44281.0
## 19 2019   MSFT      IT          1203.06 125843.0    82933.000   39240.0
## 20 2018   MSFT      IT           779.67 110360.0    72007.000   16571.0
## 21 2017   MSFT      IT           659.91  96571.0    62310.000   25489.0
## 22 2016   MSFT      IT           483.16  91154.0    58374.000   20539.0
## 23 2015   MSFT      IT           443.17  93580.0    60542.000   12193.0
## 24 2014   MSFT      IT           382.88  86833.0    59755.000   22074.0
## 25 2013   MSFT      IT           312.30  77849.0    57464.000   21863.0
## 26 2012   MSFT      IT           224.80  73723.0    56193.000   16978.0
## 27 2011   MSFT      IT           218.38  69943.0    54366.000   23150.0
## 28 2010   MSFT      IT           238.78  62484.0    50089.000   18760.0
## 29 2009   MSFT      IT           270.64  58437.0    46282.000   14569.0
## 30 2022   GOOG      IT          1144.35 282836.0   156633.000   59972.0
```

| | | | | | | | | |
|----|----|------|------|---------|---------|----------|------------|---------|
| ## | 31 | 2021 | GOOG | IT | 1910.26 | 257637.0 | 146698.000 | 76033.0 |
| ## | 32 | 2020 | GOOG | IT | 1179.40 | 182527.0 | 97795.000 | 40269.0 |
| ## | 33 | 2019 | GOOG | IT | 917.82 | 161857.0 | 89961.000 | 34343.0 |
| ## | 34 | 2018 | GOOG | IT | 719.63 | 136819.0 | 77270.000 | 30736.0 |
| ## | 35 | 2017 | GOOG | IT | 726.47 | 110855.0 | 65272.000 | 12662.0 |
| ## | 36 | 2016 | GOOG | IT | 530.84 | 90272.0 | 55134.000 | 19478.0 |
| ## | 37 | 2015 | GOOG | IT | 521.67 | 74989.0 | 46825.000 | 15826.0 |
| ## | 38 | 2014 | GOOG | IT | 354.75 | 66001.0 | 40310.000 | 14136.0 |
| ## | 39 | 2013 | GOOG | IT | 371.53 | 55519.0 | 33526.000 | 12733.0 |
| ## | 40 | 2012 | GOOG | IT | 230.54 | 46039.0 | 28863.000 | 10737.0 |
| ## | 41 | 2011 | GOOG | IT | 207.65 | 37905.0 | 24717.000 | 9737.0 |
| ## | 42 | 2010 | GOOG | IT | 188.54 | 29321.0 | 18904.000 | 8505.0 |
| ## | 43 | 2009 | GOOG | IT | 195.27 | 23651.0 | 14807.000 | 6520.0 |
| ## | 44 | 2021 | PYPL | FinTech | 221.57 | 25371.0 | 11921.000 | 4169.0 |
| ## | 45 | 2020 | PYPL | FinTech | 274.41 | 21454.0 | 10001.000 | 4202.0 |
| ## | 46 | 2019 | PYPL | FinTech | 127.01 | 17772.0 | 7987.000 | 2459.0 |
| ## | 47 | 2022 | MCD | FOOD | 186.39 | 23182.6 | 13207.200 | 6177.4 |
| ## | 48 | 2021 | MCD | FOOD | 193.02 | 23222.9 | 12580.200 | 7545.2 |
| ## | 49 | 2020 | MCD | FOOD | 200.31 | 19207.8 | 9752.101 | 4730.5 |
| ## | 50 | 2019 | MCD | FOOD | 159.89 | 21364.4 | 11179.400 | 6025.4 |
| ## | 51 | 2018 | MCD | FOOD | 148.82 | 21257.9 | 10832.600 | 5924.3 |
| ## | 52 | 2017 | MCD | FOOD | 136.89 | 22820.4 | 10620.800 | 5192.3 |
| ## | 53 | 2016 | MCD | FOOD | 137.21 | 24621.9 | 10204.700 | 4686.5 |
| ## | 54 | 2015 | MCD | FOOD | 101.08 | 25413.0 | 9789.200 | 4529.3 |
| ## | 55 | 2014 | MCD | FOOD | 108.48 | 27441.3 | 10455.700 | 4757.8 |
| ## | 56 | 2010 | MCD | FOOD | 102.66 | 24074.6 | 9637.300 | 4946.3 |
| ## | 57 | 2023 | NVDA | ELEC | 1000.35 | 26974.0 | 15356.000 | 4368.0 |
| ## | 58 | 2022 | NVDA | ELEC | 359.50 | 26914.0 | 17475.000 | 9752.0 |
| ## | 59 | 2021 | NVDA | ELEC | 735.86 | 16675.0 | 10396.000 | 4332.0 |
| ## | 60 | 2020 | NVDA | ELEC | 323.24 | 10918.0 | 6768.000 | 2796.0 |
| ## | 61 | 2019 | NVDA | ELEC | 144.00 | 11716.0 | 7171.000 | 4141.0 |
| ## | 62 | 2017 | NVDA | ELEC | 117.26 | 6910.0 | 4063.000 | 1666.0 |
| ## | 63 | 2022 | INTC | ELEC | 109.08 | 63054.0 | 26866.000 | 8014.0 |
| ## | 64 | 2021 | INTC | ELEC | 209.45 | 79024.0 | 43815.000 | 19868.0 |
| ## | 65 | 2020 | INTC | ELEC | 104.16 | 77867.0 | 43612.000 | 20899.0 |
| ## | 66 | 2019 | INTC | ELEC | 260.35 | 71965.0 | 42140.000 | 21048.0 |
| ## | 67 | 2018 | INTC | ELEC | 214.19 | 70848.0 | 43737.000 | 21053.0 |
| ## | 68 | 2017 | INTC | ELEC | 216.03 | 62761.0 | 39098.000 | 9601.0 |
| ## | 69 | 2016 | INTC | ELEC | 171.88 | 59387.0 | 36233.000 | 10316.0 |
| ## | 70 | 2015 | INTC | ELEC | 162.57 | 55355.0 | 34679.000 | 11420.0 |
| ## | 71 | 2014 | INTC | ELEC | 175.46 | 55870.0 | 35609.000 | 11704.0 |
| ## | 72 | 2013 | INTC | ELEC | 129.02 | 52708.0 | 31521.000 | 9620.0 |
| ## | 73 | 2012 | INTC | ELEC | 102.61 | 53341.0 | 33151.000 | 11005.0 |
| ## | 74 | 2011 | INTC | ELEC | 123.48 | 53999.0 | 33757.000 | 12942.0 |
| ## | 75 | 2010 | INTC | ELEC | 117.31 | 43623.0 | 28491.000 | 11464.0 |
| ## | 76 | 2009 | INTC | ELEC | 112.65 | 35127.0 | 19561.000 | 4369.0 |
| ## | 77 | 2022 | AMZN | LOGI | 856.94 | 513983.0 | 225152.000 | -2722.0 |
| ## | 78 | 2021 | AMZN | LOGI | 1691.00 | 469822.0 | 197478.000 | 33364.0 |
| ## | 79 | 2020 | AMZN | LOGI | 1634.16 | 386064.0 | 152757.000 | 21331.0 |
| ## | 80 | 2019 | AMZN | LOGI | 916.15 | 280522.0 | 114986.000 | 11588.0 |
| ## | 81 | 2018 | AMZN | LOGI | 734.42 | 232887.0 | 93731.000 | 10073.0 |
| ## | 82 | 2017 | AMZN | LOGI | 563.54 | 177866.0 | 65932.000 | 3033.0 |
| ## | 83 | 2016 | AMZN | LOGI | 356.31 | 135987.0 | 47722.000 | 2371.0 |
| ## | 84 | 2015 | AMZN | LOGI | 316.83 | 107006.0 | 35355.000 | 596.0 |

| | | | | | | | |
|-------|-------------------|---------|------------|---------------------|----------|--------------------------|----------|
| ## 85 | 2014 | AMZN | LOGI | 143.70 | 88988.0 | 26236.000 | -241.0 |
| ## 86 | 2013 | AMZN | LOGI | 182.54 | 74452.0 | 20271.000 | 274.0 |
| ## 87 | 2012 | AMZN | LOGI | 113.63 | 61093.0 | 15122.000 | -39.0 |
| ## | Earning.Per.Share | | EBITDA | Share.Holder.Equity | | Cash.Flow.from.Operating | |
| ## 1 | | 6.1100 | 130541.000 | | 50672.0 | | 122151.0 |
| ## 2 | | 5.6100 | 120233.000 | | 63090.0 | | 104038.0 |
| ## 3 | | 3.2800 | 77344.000 | | 65339.0 | | 80674.0 |
| ## 4 | | 2.9700 | 76477.000 | | 90488.0 | | 69391.0 |
| ## 5 | | 2.9800 | 81801.000 | | 107147.0 | | 77434.0 |
| ## 6 | | 2.3025 | 71501.000 | | 134047.0 | | 64225.0 |
| ## 7 | | 2.0775 | 70529.000 | | 128249.0 | | 66231.0 |
| ## 8 | | 2.3050 | 82487.000 | | 119355.0 | | 81266.0 |
| ## 9 | | 1.6125 | 60449.000 | | 111547.0 | | 59713.0 |
| ## 10 | | 1.4200 | 55756.000 | | 123549.0 | | 53666.0 |
| ## 11 | | 1.5775 | 58518.000 | | 118210.0 | | 50856.0 |
| ## 12 | | 0.9886 | 35604.000 | | 76615.0 | | 37529.0 |
| ## 13 | | 0.5411 | 19412.000 | | 47791.0 | | 18595.0 |
| ## 14 | | 0.3243 | 12474.000 | | 31640.0 | | 10159.0 |
| ## 15 | | 9.6800 | 102384.000 | | 206223.0 | | 87582.0 |
| ## 16 | | 9.6500 | 97843.000 | | 166542.0 | | 89035.0 |
| ## 17 | | 8.0500 | 81602.000 | | 141988.0 | | 76740.0 |
| ## 18 | | 5.7600 | 65755.000 | | 118304.0 | | 60675.0 |
| ## 19 | | 5.0600 | 54641.000 | | 102330.0 | | 52185.0 |
| ## 20 | | 2.1300 | 45319.000 | | 82718.0 | | 43884.0 |
| ## 21 | | 3.2500 | 37803.000 | | 87711.0 | | 39507.0 |
| ## 22 | | 2.5600 | 33330.000 | | 71997.0 | | 33325.0 |
| ## 23 | | 1.4800 | 31616.000 | | 80083.0 | | 29668.0 |
| ## 24 | | 2.6300 | 32971.000 | | 89784.0 | | 32502.0 |
| ## 25 | | 2.5800 | 30519.000 | | 78944.0 | | 28833.0 |
| ## 26 | | 2.0000 | 30923.000 | | 66363.0 | | 31626.0 |
| ## 27 | | 2.6900 | 29927.000 | | 57083.0 | | 26994.0 |
| ## 28 | | 2.1000 | 26771.000 | | 46175.0 | | 24073.0 |
| ## 29 | | 1.6200 | 22925.000 | | 39558.0 | | 19037.0 |
| ## 30 | | 4.5600 | 90770.000 | | 256144.0 | | 91495.0 |
| ## 31 | | 5.6100 | 91155.000 | | 251635.0 | | 91652.0 |
| ## 32 | | 2.9300 | 54921.000 | | 222544.0 | | 65124.0 |
| ## 33 | | 2.4580 | 46012.000 | | 201442.0 | | 54520.0 |
| ## 34 | | 2.1850 | 36559.000 | | 177628.0 | | 47971.0 |
| ## 35 | | 0.9000 | 33093.000 | | 152502.0 | | 37091.0 |
| ## 36 | | 1.3925 | 29860.000 | | 139036.0 | | 36036.0 |
| ## 37 | | 1.1420 | 24423.000 | | 120331.0 | | 26572.0 |
| ## 38 | | 1.0285 | 21475.000 | | 103860.0 | | 23024.0 |
| ## 39 | | 0.9395 | 19342.000 | | 87309.0 | | 18659.0 |
| ## 40 | | 0.8080 | 16796.000 | | 71715.0 | | 16619.0 |
| ## 41 | | 0.7440 | 13593.000 | | 58145.0 | | 14565.0 |
| ## 42 | | 0.6578 | 11777.000 | | 46241.0 | | 11081.0 |
| ## 43 | | 0.5103 | 9836.000 | | 36004.0 | | 9316.0 |
| ## 44 | | 3.5200 | 5527.000 | | 21727.0 | | 5797.0 |
| ## 45 | | 3.5400 | 4478.000 | | 20063.0 | | 6219.0 |
| ## 46 | | 2.0700 | 3631.000 | | 16929.0 | | 4071.0 |
| ## 47 | | 8.3300 | 11241.600 | | -6003.4 | | 7386.7 |
| ## 48 | | 10.0400 | 12224.100 | | -4601.0 | | 9141.5 |
| ## 49 | | 6.3100 | 9075.400 | | -7824.9 | | 6265.2 |
| ## 50 | | 7.8800 | 10687.700 | | -8210.3 | | 8122.1 |

| | | | | |
|-------|--------------------------|-----------|-------------------------------------|---------------|
| ## 51 | 7.5400 | 10304.600 | -6258.4 | 6966.7 |
| ## 52 | 6.3700 | 10916.100 | -3268.0 | 5551.2 |
| ## 53 | 5.4400 | 9261.002 | -2204.3 | 6059.6 |
| ## 54 | 4.8000 | 8701.200 | 7087.9 | 6539.1 |
| ## 55 | 4.8200 | 9593.701 | 12853.4 | 6730.3 |
| ## 56 | 4.5800 | 8749.300 | 14634.2 | 6341.6 |
| ## 57 | 1.7400 | 5768.000 | 22101.0 | 5641.0 |
| ## 58 | 3.8500 | 11215.000 | 26612.0 | 9108.0 |
| ## 59 | 1.7300 | 5630.000 | 16893.0 | 5822.0 |
| ## 60 | 1.1300 | 3227.000 | 12204.0 | 4761.0 |
| ## 61 | 1.6575 | 4066.000 | 9342.0 | 3743.0 |
| ## 62 | 0.6425 | 2121.000 | 5762.0 | 1672.0 |
| ## 63 | 1.9400 | 15369.000 | 103286.0 | 15433.0 |
| ## 64 | 4.8600 | 31248.000 | 95391.0 | 29456.0 |
| ## 65 | 4.9400 | 35917.000 | 81038.0 | 35864.0 |
| ## 66 | 4.7100 | 32861.000 | 77504.0 | 33145.0 |
| ## 67 | 4.4800 | 32401.000 | 74563.0 | 29432.0 |
| ## 68 | 1.9900 | 26179.000 | 69019.0 | 22110.0 |
| ## 69 | 2.1200 | 20923.000 | 66226.0 | 21808.0 |
| ## 70 | 2.3300 | 22713.000 | 61085.0 | 19018.0 |
| ## 71 | 2.3100 | 23896.000 | 55865.0 | 20418.0 |
| ## 72 | 1.8900 | 20323.000 | 58256.0 | 20776.0 |
| ## 73 | 2.1300 | 22160.000 | 51203.0 | 18884.0 |
| ## 74 | 2.3900 | 23541.000 | 45911.0 | 20963.0 |
| ## 75 | 2.0100 | 20226.000 | 49430.0 | 16692.0 |
| ## 76 | 0.7700 | 10763.000 | 41704.0 | 11170.0 |
| ## 77 | -0.2700 | 54169.000 | 146043.0 | 46752.0 |
| ## 78 | 3.2400 | 59312.000 | 138245.0 | 46327.0 |
| ## 79 | 2.0900 | 48079.000 | 93404.0 | 66064.0 |
| ## 80 | 1.1505 | 36330.000 | 62060.0 | 38514.0 |
| ## 81 | 1.0070 | 27762.000 | 43549.0 | 30723.0 |
| ## 82 | 0.3075 | 15584.000 | 27709.0 | 18365.0 |
| ## 83 | 0.2450 | 12302.000 | 19285.0 | 17203.0 |
| ## 84 | 0.0625 | 8514.000 | 13384.0 | 12039.0 |
| ## 85 | -0.0260 | 4924.000 | 10741.0 | 6842.0 |
| ## 86 | 0.0295 | 3998.000 | 9746.0 | 5475.0 |
| ## 87 | -0.0045 | 2835.000 | 8192.0 | 4180.0 |
| ## | Cash.Flow.from.Investing | | Cash.Flow.from.Financial.Activities | Current.Ratio |
| ## 1 | | -22354.0 | -110749.0 | 0.8794 |
| ## 2 | | -14545.0 | -93353.0 | 1.0746 |
| ## 3 | | -4289.0 | -86820.0 | 1.3636 |
| ## 4 | | 45896.0 | -90976.0 | 1.5401 |
| ## 5 | | 16066.0 | -87876.0 | 1.1329 |
| ## 6 | | -46446.0 | -17974.0 | 1.2761 |
| ## 7 | | -45977.0 | -20890.0 | 1.3527 |
| ## 8 | | -56274.0 | -17716.0 | 1.1088 |
| ## 9 | | -22579.0 | -37549.0 | 1.0801 |
| ## 10 | | -33774.0 | -16379.0 | 1.6786 |
| ## 11 | | -48227.0 | -1698.0 | 1.4958 |
| ## 12 | | -40419.0 | 1444.0 | 1.6084 |
| ## 13 | | -13854.0 | 1257.0 | 2.0113 |
| ## 14 | | -17434.0 | 663.0 | 2.7425 |
| ## 15 | | -22680.0 | -43935.0 | 1.7692 |
| ## 16 | | -30311.0 | -58876.0 | 1.7846 |

| | | | |
|-------|----------|----------|---------|
| ## 17 | -27577.0 | -48486.0 | 2.0800 |
| ## 18 | -12223.0 | -46031.0 | 2.5158 |
| ## 19 | -15773.0 | -36887.0 | 2.5288 |
| ## 20 | -6061.0 | -33590.0 | 2.9008 |
| ## 21 | -46781.0 | 8408.0 | 2.9186 |
| ## 22 | -23950.0 | -8393.0 | 2.3529 |
| ## 23 | -23001.0 | -9668.0 | 2.4734 |
| ## 24 | -18833.0 | -8665.0 | 2.5040 |
| ## 25 | -23811.0 | -8148.0 | 2.7118 |
| ## 26 | -24786.0 | -9408.0 | 2.6029 |
| ## 27 | -14616.0 | -8376.0 | 2.6037 |
| ## 28 | -11314.0 | -13291.0 | 2.1293 |
| ## 29 | -15770.0 | -7463.0 | 1.8229 |
| ## 30 | -20298.0 | -69757.0 | 2.3780 |
| ## 31 | -35523.0 | -61362.0 | 2.9281 |
| ## 32 | -32773.0 | -24408.0 | 3.0668 |
| ## 33 | -29491.0 | -23209.0 | 3.3741 |
| ## 34 | -28504.0 | -13179.0 | 3.9190 |
| ## 35 | -31401.0 | -8298.0 | 5.1403 |
| ## 36 | -31165.0 | -8332.0 | 6.2908 |
| ## 37 | -23711.0 | -4225.0 | 4.6667 |
| ## 38 | -21055.0 | -2087.0 | 4.6878 |
| ## 39 | -13679.0 | -857.0 | 4.5817 |
| ## 40 | -13056.0 | 1229.0 | 4.2166 |
| ## 41 | -19041.0 | 807.0 | 5.9192 |
| ## 42 | -10680.0 | 3050.0 | 4.1579 |
| ## 43 | -8019.0 | 233.0 | 10.6178 |
| ## 44 | -5149.0 | -557.0 | 1.2218 |
| ## 45 | -16545.0 | 12454.0 | 1.3264 |
| ## 46 | -5742.0 | 4187.0 | 1.4300 |
| ## 47 | -2678.1 | -6580.2 | 1.4266 |
| ## 48 | -2165.7 | -5595.6 | 1.7782 |
| ## 49 | -1545.8 | -2249.0 | 1.0100 |
| ## 50 | -3071.1 | -4994.8 | 0.9826 |
| ## 51 | -2455.1 | -5949.6 | 1.3631 |
| ## 52 | 562.0 | -5310.8 | 1.8429 |
| ## 53 | -981.6 | -11262.4 | 1.3980 |
| ## 54 | -1420.0 | 735.3 | 3.2684 |
| ## 55 | -2304.9 | -4618.3 | 1.5232 |
| ## 56 | -2056.0 | -3728.7 | 1.4937 |
| ## 57 | 7375.0 | -11617.0 | 3.5156 |
| ## 58 | -9830.0 | 1865.0 | 6.6503 |
| ## 59 | -19675.0 | 3804.0 | 4.0904 |
| ## 60 | 6145.0 | -792.0 | 7.6738 |
| ## 61 | -4097.0 | -2866.0 | 7.9436 |
| ## 62 | -793.0 | 291.0 | 4.7740 |
| ## 63 | -10477.0 | 1361.0 | 1.5676 |
| ## 64 | -24449.0 | -6045.0 | 2.1323 |
| ## 65 | -21524.0 | -12669.0 | 1.9087 |
| ## 66 | -14405.0 | -17565.0 | 1.4002 |
| ## 67 | -11239.0 | -18607.0 | 1.7314 |
| ## 68 | -15762.0 | -8475.0 | 1.6934 |
| ## 69 | -25817.0 | -5739.0 | 1.7490 |
| ## 70 | -8183.0 | 1912.0 | 2.4492 |

| | | | | | | |
|-------|-------------------|----------|---------|---------|-------------------|--------|
| ## 71 | -9905.0 | | | | -13611.0 | 1.7319 |
| ## 72 | -18073.0 | | | | -5498.0 | 2.3647 |
| ## 73 | -14060.0 | | | | -1408.0 | 2.4312 |
| ## 74 | -10301.0 | | | | -11100.0 | 2.1510 |
| ## 75 | -10539.0 | | | | -4642.0 | 3.3892 |
| ## 76 | -7965.0 | | | | -2568.0 | 2.7871 |
| ## 77 | -37601.0 | | | | 9718.0 | 0.9446 |
| ## 78 | -58154.0 | | | | 6291.0 | 1.1358 |
| ## 79 | -59611.0 | | | | -1104.0 | 1.0502 |
| ## 80 | -24281.0 | | | | -10066.0 | 1.0970 |
| ## 81 | -12369.0 | | | | -7686.0 | 1.0981 |
| ## 82 | -27084.0 | | | | 9928.0 | 1.0400 |
| ## 83 | -9516.0 | | | | -3716.0 | 1.0448 |
| ## 84 | -6450.0 | | | | -3882.0 | 1.0536 |
| ## 85 | -5065.0 | | | | 4432.0 | 1.1153 |
| ## 86 | -4276.0 | | | | -539.0 | 1.0716 |
| ## 87 | -3595.0 | | | | 2259.0 | 1.1207 |
| ## | Debt.Equity.Ratio | ROE | ROA | ROI | Net.Profit.Margin | |
| ## 1 | 2.3695 | 196.9589 | 28.2924 | 66.6994 | 25.3096 | |
| ## 2 | 1.9768 | 150.0713 | 26.9742 | 54.9839 | 25.8818 | |
| ## 3 | 1.7208 | 87.8664 | 17.7256 | 35.0054 | 20.9136 | |
| ## 4 | 1.1940 | 61.0645 | 16.3230 | 30.3113 | 21.2381 | |
| ## 5 | 1.0685 | 55.5601 | 16.2775 | 29.6348 | 22.4142 | |
| ## 6 | 0.8630 | 36.0702 | 12.8826 | 20.9082 | 21.0924 | |
| ## 7 | 0.6786 | 35.6237 | 14.2024 | 22.4312 | 21.1868 | |
| ## 8 | 0.5390 | 44.7355 | 18.3899 | 30.9201 | 22.8458 | |
| ## 9 | 0.3164 | 35.4201 | 17.0420 | 28.1142 | 21.6144 | |
| ## 10 | 0.1373 | 29.9776 | 17.8923 | 26.3592 | 21.6705 | |
| ## 11 | 0.0000 | 35.3041 | 23.7033 | 35.3041 | 26.6651 | |
| ## 12 | 0.0000 | 33.8341 | 22.2753 | 33.8341 | 23.9466 | |
| ## 13 | 0.0000 | 29.3214 | 18.6385 | 29.3214 | 21.4841 | |
| ## 14 | 0.0000 | 26.0272 | 17.3365 | 26.0272 | 19.1936 | |
| ## 15 | 0.2291 | 35.0887 | 17.5644 | 29.1528 | 34.1462 | |
| ## 16 | 0.2989 | 43.6755 | 19.9370 | 34.0575 | 36.6863 | |
| ## 17 | 0.4095 | 43.1522 | 18.3568 | 31.9017 | 36.4517 | |
| ## 18 | 0.5353 | 37.4298 | 14.6961 | 24.8935 | 30.9625 | |
| ## 19 | 0.7053 | 38.3465 | 13.6937 | 23.2200 | 31.1817 | |
| ## 20 | 0.9217 | 20.0331 | 6.4018 | 10.6937 | 15.0154 | |
| ## 21 | 0.9827 | 29.0602 | 10.1829 | 15.5626 | 26.3941 | |
| ## 22 | 0.7425 | 28.5276 | 10.6162 | 18.2481 | 22.5322 | |
| ## 23 | 0.4407 | 15.2255 | 6.9885 | 11.3012 | 13.0295 | |
| ## 24 | 0.2522 | 24.5857 | 12.8051 | 19.9893 | 25.4212 | |
| ## 25 | 0.1976 | 27.6943 | 15.3499 | 23.8822 | 28.0839 | |
| ## 26 | 0.1800 | 25.5835 | 14.0001 | 22.0276 | 23.0295 | |
| ## 27 | 0.2088 | 40.5550 | 21.2964 | 33.5488 | 33.0984 | |
| ## 28 | 0.1286 | 40.6280 | 21.7853 | 36.7023 | 30.0237 | |
| ## 29 | 0.1453 | 36.8295 | 18.7051 | 33.6435 | 24.9311 | |
| ## 30 | 0.0574 | 23.4134 | 16.4188 | 22.1426 | 21.2038 | |
| ## 31 | 0.0589 | 30.2156 | 21.1633 | 28.5354 | 29.5117 | |
| ## 32 | 0.0626 | 18.0949 | 12.5992 | 17.0288 | 22.0619 | |
| ## 33 | 0.0226 | 17.0486 | 12.4472 | 16.6717 | 21.2181 | |
| ## 34 | 0.0226 | 17.3036 | 13.2032 | 16.9214 | 22.4647 | |
| ## 35 | 0.0260 | 8.3028 | 6.4178 | 8.0922 | 11.4221 | |
| ## 36 | 0.0283 | 14.0093 | 11.6289 | 13.6237 | 21.5770 | |

| | | | | | |
|-------|--|-----------|---------|----------|---------------------|
| ## 37 | 0.0434 | 13.5859 | 11.0863 | 13.3643 | 21.1044 |
| ## 38 | 0.0504 | 13.1138 | 10.5429 | 12.7185 | 21.4179 |
| ## 39 | 0.0601 | 15.0729 | 11.8644 | 14.6965 | 22.9345 |
| ## 40 | 0.0772 | 16.1096 | 12.3169 | 15.4652 | 23.3215 |
| ## 41 | 0.0723 | 16.7461 | 13.4167 | 15.9281 | 25.6879 |
| ## 42 | 0.0749 | 18.3928 | 14.7016 | 18.3928 | 29.0065 |
| ## 43 | 0.0000 | 18.1091 | 16.1000 | 18.1091 | 27.5675 |
| ## 44 | 0.3705 | 19.1881 | 5.4998 | 14.0012 | 16.4322 |
| ## 45 | 0.4455 | 20.9440 | 5.9705 | 14.4887 | 19.5861 |
| ## 46 | 0.2933 | 14.5254 | 4.7903 | 11.2314 | 13.8364 |
| ## 47 | -5.9805 | -102.8983 | 12.2481 | 20.6601 | 26.6467 |
| ## 48 | -7.7424 | -163.9903 | 14.0104 | 24.3223 | 32.4903 |
| ## 49 | -4.7848 | -60.4545 | 8.9888 | 17.2823 | 24.6280 |
| ## 50 | -4.1627 | -73.3883 | 12.6822 | 23.2571 | 28.2030 |
| ## 51 | -4.9654 | -94.6616 | 18.0557 | 23.8720 | 27.8687 |
| ## 52 | -9.0381 | -158.8832 | 15.3602 | 19.7663 | 22.7529 |
| ## 53 | -11.7750 | -212.6069 | 15.1061 | 19.7958 | 19.0339 |
| ## 54 | 3.4033 | 63.9019 | 11.9385 | 14.5123 | 17.8228 |
| ## 55 | 1.1620 | 37.0159 | 13.9006 | 17.1211 | 17.3381 |
| ## 56 | 0.7862 | 33.7996 | 15.4692 | 18.9287 | 20.5457 |
| ## 57 | 0.4956 | 19.7638 | 10.6066 | 13.7341 | 16.1934 |
| ## 58 | 0.4113 | 36.6451 | 22.0698 | 25.9652 | 36.2339 |
| ## 59 | 0.4122 | 25.6438 | 15.0464 | 18.9526 | 25.9790 |
| ## 60 | 0.1631 | 22.9105 | 16.1479 | 19.6971 | 25.6091 |
| ## 61 | 0.2128 | 44.3267 | 31.1541 | 36.5490 | 35.3448 |
| ## 62 | 0.4877 | 28.9136 | 16.9292 | 21.4249 | 24.1100 |
| ## 63 | 0.4071 | 7.7619 | 4.4025 | 5.6870 | 12.7097 |
| ## 64 | 0.3994 | 20.8280 | 11.7977 | 15.4134 | 25.1417 |
| ## 65 | 0.4492 | 25.7891 | 13.6514 | 18.1833 | 26.8394 |
| ## 66 | 0.3742 | 27.1573 | 15.4171 | 20.4723 | 29.2476 |
| ## 67 | 0.3535 | 28.2352 | 16.4524 | 21.1246 | 29.7157 |
| ## 68 | 0.3885 | 13.9107 | 7.7899 | 10.2078 | 15.2977 |
| ## 69 | 0.3818 | 15.5770 | 9.1029 | 11.8745 | 17.3708 |
| ## 70 | 0.3711 | 18.6953 | 11.2558 | 14.0777 | 20.6305 |
| ## 71 | 0.2444 | 20.9505 | 12.7356 | 17.2310 | 20.9486 |
| ## 72 | 0.2308 | 16.5133 | 10.4160 | 13.4694 | 18.2515 |
| ## 73 | 0.2626 | 21.4929 | 13.0467 | 17.1047 | 20.6314 |
| ## 74 | 0.1597 | 28.1893 | 18.1977 | 24.4212 | 23.9671 |
| ## 75 | 0.0428 | 23.1924 | 18.1433 | 22.2572 | 26.2797 |
| ## 76 | 0.0533 | 10.4762 | 8.2286 | 9.9856 | 12.4377 |
| ## 77 | 0.4598 | -1.8638 | -0.5883 | -1.2768 | -0.5296 |
| ## 78 | 0.3526 | 24.1340 | 7.9334 | 17.8428 | 7.1014 |
| ## 79 | 0.3406 | 22.8374 | 6.6411 | 17.0348 | 5.5252 |
| ## 80 | 0.3773 | 18.6723 | 5.1446 | 13.5573 | 4.1309 |
| ## 81 | 0.5395 | 23.1303 | 6.1931 | 15.0245 | 4.3253 |
| ## 82 | 0.8930 | 10.9459 | 2.3098 | 5.7824 | 1.7052 |
| ## 83 | 0.3990 | 12.2945 | 2.8429 | 8.7883 | 1.7435 |
| ## 84 | 0.6147 | 4.4531 | 0.9205 | 2.7579 | 0.5570 |
| ## 85 | 0.7695 | -2.2437 | -0.4422 | -1.2680 | -0.2708 |
| ## 86 | 0.3274 | 2.8114 | 0.6823 | 2.1180 | 0.3680 |
| ## 87 | 0.3765 | -0.4761 | -0.1198 | -0.3459 | -0.0638 |
| ## | Free.Cash.Flow.per.Share Return.on.Tangible.Equity | | | | Number.of.Employees |
| ## 1 | | 1.3146 | | 196.9589 | 164000 |
| ## 2 | | 1.3261 | | 150.0713 | 154000 |

| | | | |
|-------|---------|-----------|--------|
| ## 3 | 1.0183 | 87.8664 | 147000 |
| ## 4 | -0.0388 | 61.0645 | 137000 |
| ## 5 | 0.7414 | 55.5601 | 132000 |
| ## 6 | 0.0330 | 36.0702 | 123000 |
| ## 7 | -0.5901 | 38.1906 | 116000 |
| ## 8 | 0.9743 | 48.3878 | 110000 |
| ## 9 | 0.3032 | 38.4380 | 97000 |
| ## 10 | 0.1363 | 31.4425 | 84400 |
| ## 11 | 0.3394 | 36.9806 | 76100 |
| ## 12 | 0.6278 | 35.9115 | 63300 |
| ## 13 | 0.2857 | 30.0013 | 49400 |
| ## 14 | 0.3550 | 26.4052 | 36800 |
| ## 15 | -0.6808 | 56.1064 | 221000 |
| ## 16 | 1.2643 | 82.9207 | 221000 |
| ## 17 | 1.4887 | 72.5298 | 181000 |
| ## 18 | 0.9526 | 65.2006 | 163000 |
| ## 19 | 0.7968 | 74.6661 | 144000 |
| ## 20 | 0.1317 | 42.5094 | 131000 |
| ## 21 | 0.8887 | 59.9981 | 124000 |
| ## 22 | 0.2435 | 40.7585 | 114000 |
| ## 23 | -0.3425 | 20.9110 | 118000 |
| ## 24 | 0.3152 | 35.2192 | 128000 |
| ## 25 | -0.5456 | 35.7204 | 118000 |
| ## 26 | 0.5798 | 34.1328 | 128000 |
| ## 27 | 0.3921 | 52.9046 | 99000 |
| ## 28 | 0.7057 | 57.5054 | 94000 |
| ## 29 | 1.7695 | 57.5941 | 90000 |
| ## 30 | -0.3613 | 26.6424 | 190234 |
| ## 31 | 1.7123 | 33.4561 | 156500 |
| ## 32 | 0.8430 | 20.1422 | 135301 |
| ## 33 | 0.5566 | 19.2033 | 118899 |
| ## 34 | -0.0705 | 19.5124 | 98771 |
| ## 35 | -0.1510 | 9.5158 | 80110 |
| ## 36 | 0.6249 | 16.3323 | 72053 |
| ## 37 | 0.3054 | 16.2481 | 61814 |
| ## 38 | 0.0463 | 16.2814 | 53600 |
| ## 39 | -0.2373 | 18.8671 | 47756 |
| ## 40 | 0.1539 | 21.5120 | 53861 |
| ## 41 | 0.3039 | 19.7822 | 32467 |
| ## 42 | -0.1195 | 21.8407 | 24400 |
| ## 43 | 0.6657 | 21.4997 | 19835 |
| ## 44 | -0.4843 | 46.6279 | 30900 |
| ## 45 | 1.7623 | 42.5304 | 26500 |
| ## 46 | -1.0251 | 24.7409 | 23200 |
| ## 47 | -2.1323 | -69.3794 | 150000 |
| ## 48 | 3.3857 | -102.1900 | 200000 |
| ## 49 | -1.4852 | -44.6358 | 200000 |
| ## 50 | 2.1046 | -55.3414 | 205000 |
| ## 51 | 0.8436 | -68.9682 | 210000 |
| ## 52 | -0.2793 | -91.9365 | 235000 |
| ## 53 | -0.2100 | -103.2087 | 375000 |
| ## 54 | 0.9354 | 99.0748 | 420000 |
| ## 55 | 0.0221 | 47.0227 | 420000 |
| ## 56 | 0.4630 | 41.0546 | 400000 |

| | | | |
|-------|-----------------------|---------|---------|
| ## 57 | -1.6890 | 27.2099 | 26196 |
| ## 58 | 1.3378 | 48.9460 | 22473 |
| ## 59 | 0.1419 | 43.4809 | 18975 |
| ## 60 | 0.4710 | 24.2351 | 13775 |
| ## 61 | 0.1057 | 47.7129 | 13277 |
| ## 62 | 0.0975 | 33.0556 | 10299 |
| ## 63 | -4.5640 | 11.5060 | 131900 |
| ## 64 | -2.8278 | 32.4864 | 121100 |
| ## 65 | 1.2739 | 46.4000 | 110600 |
| ## 66 | 0.7539 | 52.0977 | 110800 |
| ## 67 | 0.8946 | 55.0924 | 107400 |
| ## 68 | -0.3622 | 30.1113 | 102700 |
| ## 69 | 0.1101 | 24.1972 | 106000 |
| ## 70 | 0.3492 | 24.9236 | 107300 |
| ## 71 | 0.0651 | 28.8574 | 106700 |
| ## 72 | 0.4520 | 22.5859 | 107600 |
| ## 73 | -0.3622 | 31.2128 | 105000 |
| ## 74 | -0.1314 | 42.5864 | 100100 |
| ## 75 | 0.8374 | 26.0315 | 82500 |
| ## 76 | 1.1789 | 11.7185 | 79800 |
| ## 77 | -0.2546 | -2.1645 | 1541000 |
| ## 78 | -3.9226 | 27.1530 | 1608000 |
| ## 79 | 0.4798 | 27.2124 | 1298000 |
| ## 80 | 0.6220 | 24.4958 | 798000 |
| ## 81 | 1.0975 | 34.7333 | 647500 |
| ## 82 | -0.2387 | 21.1226 | 566000 |
| ## 83 | 0.3003 | 15.2958 | 341400 |
| ## 84 | 0.5700 | 6.1922 | 230800 |
| ## 85 | -0.0075 | -3.2471 | 154100 |
| ## 86 | 0.1748 | 3.8641 | 117300 |
| ## 87 | -0.1833 | -0.6915 | 88400 |
| ## | Inflation.Rate.in.US. | | |
| ## 1 | 8.0028 | | |
| ## 2 | 4.6979 | | |
| ## 3 | 1.2336 | | |
| ## 4 | 1.8122 | | |
| ## 5 | 2.4426 | | |
| ## 6 | 2.1301 | | |
| ## 7 | 1.2616 | | |
| ## 8 | 0.1186 | | |
| ## 9 | 1.6222 | | |
| ## 10 | 1.4648 | | |
| ## 11 | 2.0693 | | |
| ## 12 | 3.1568 | | |
| ## 13 | 1.6400 | | |
| ## 14 | -0.3555 | | |
| ## 15 | 3.7000 | | |
| ## 16 | 8.0028 | | |
| ## 17 | 4.6979 | | |
| ## 18 | 1.2336 | | |
| ## 19 | 1.8122 | | |
| ## 20 | 2.4426 | | |
| ## 21 | 2.1301 | | |
| ## 22 | 1.2616 | | |

| | |
|-------|---------|
| ## 23 | 0.1186 |
| ## 24 | 1.6222 |
| ## 25 | 1.4648 |
| ## 26 | 2.0693 |
| ## 27 | 3.1568 |
| ## 28 | 1.6400 |
| ## 29 | -0.3555 |
| ## 30 | 8.0028 |
| ## 31 | 4.6979 |
| ## 32 | 1.2336 |
| ## 33 | 1.8122 |
| ## 34 | 2.4426 |
| ## 35 | 2.1301 |
| ## 36 | 1.2616 |
| ## 37 | 0.1186 |
| ## 38 | 1.6222 |
| ## 39 | 1.4648 |
| ## 40 | 2.0693 |
| ## 41 | 3.1568 |
| ## 42 | 1.6400 |
| ## 43 | -0.3555 |
| ## 44 | 4.6979 |
| ## 45 | 1.2336 |
| ## 46 | 1.8122 |
| ## 47 | 8.0028 |
| ## 48 | 4.6979 |
| ## 49 | 1.2336 |
| ## 50 | 1.8122 |
| ## 51 | 2.4426 |
| ## 52 | 2.1301 |
| ## 53 | 1.2616 |
| ## 54 | 0.1186 |
| ## 55 | 1.6222 |
| ## 56 | 1.6400 |
| ## 57 | 3.7000 |
| ## 58 | 8.0028 |
| ## 59 | 4.6979 |
| ## 60 | 1.2336 |
| ## 61 | 1.8122 |
| ## 62 | 2.1301 |
| ## 63 | 8.0028 |
| ## 64 | 4.6979 |
| ## 65 | 1.2336 |
| ## 66 | 1.8122 |
| ## 67 | 2.4426 |
| ## 68 | 2.1301 |
| ## 69 | 1.2616 |
| ## 70 | 0.1186 |
| ## 71 | 1.6222 |
| ## 72 | 1.4648 |
| ## 73 | 2.0693 |
| ## 74 | 3.1568 |
| ## 75 | 1.6400 |
| ## 76 | -0.3555 |

```
## 77          8.0028
## 78          4.6979
## 79          1.2336
## 80          1.8122
## 81          2.4426
## 82          2.1301
## 83          1.2616
## 84          0.1186
## 85          1.6222
## 86          1.4648
## 87          2.0693
```

2. Remove duplicates

```
distinct_data <- filtered_data %>%
  distinct()
cat("Number of rows after removing duplicates:", nrow(distinct_data), "\n")
```

```
## Number of rows after removing duplicates: 87
```

```
print("Distinct Data:")
```

```
## [1] "Distinct Data:"
```

```
print(distinct_data)
```

```
##   Year Company Category Market.Cap.in.B.USD. Revenue Gross.Profit Net.Income
## 1  2022    AAPL      IT          2066.94 394328.0   170782.000   99803.0
## 2  2021    AAPL      IT          2913.28 365817.0   152836.000   94680.0
## 3  2020    AAPL      IT          2255.97 274515.0   104956.000   57411.0
## 4  2019    AAPL      IT          1304.76 260174.0    98392.000   55256.0
## 5  2018    AAPL      IT           748.54 265595.0   101839.000   59531.0
## 6  2017    AAPL      IT           868.87 229234.0    88186.000   48351.0
## 7  2016    AAPL      IT           617.59 215639.0    84263.000   45687.0
## 8  2015    AAPL      IT           586.86 233715.0    93626.000   53394.0
## 9  2014    AAPL      IT           647.36 182795.0    70537.000   39510.0
## 10 2013    AAPL      IT           504.79 170910.0    64304.000   37037.0
## 11 2012    AAPL      IT           500.61 156508.0    68662.000   41733.0
## 12 2011    AAPL      IT           376.40 108249.0    43818.000   25922.0
## 13 2010    AAPL      IT           296.89  65225.0    25684.000   14013.0
## 14 2009    AAPL      IT           189.80  42905.0    17222.000    8235.0
## 15 2023   MSFT      IT          2451.23 211915.0   146052.000   72361.0
## 16 2022   MSFT      IT          1787.73 198270.0   135620.000   72738.0
## 17 2021   MSFT      IT          2525.08 168088.0   115856.000   61271.0
## 18 2020   MSFT      IT          1681.61 143015.0    96937.000   44281.0
## 19 2019   MSFT      IT          1203.06 125843.0    82933.000   39240.0
## 20 2018   MSFT      IT           779.67 110360.0    72007.000   16571.0
## 21 2017   MSFT      IT           659.91  96571.0    62310.000   25489.0
## 22 2016   MSFT      IT           483.16  91154.0    58374.000   20539.0
## 23 2015   MSFT      IT           443.17  93580.0    60542.000   12193.0
## 24 2014   MSFT      IT           382.88  86833.0    59755.000   22074.0
## 25 2013   MSFT      IT           312.30  77849.0    57464.000   21863.0
## 26 2012   MSFT      IT           224.80  73723.0    56193.000   16978.0
## 27 2011   MSFT      IT           218.38  69943.0    54366.000   23150.0
## 28 2010   MSFT      IT           238.78  62484.0    50089.000   18760.0
```

| | | | | | | | | |
|----|----|------|------|---------|---------|----------|------------|---------|
| ## | 29 | 2009 | MSFT | IT | 270.64 | 58437.0 | 46282.000 | 14569.0 |
| ## | 30 | 2022 | GOOG | IT | 1144.35 | 282836.0 | 156633.000 | 59972.0 |
| ## | 31 | 2021 | GOOG | IT | 1910.26 | 257637.0 | 146698.000 | 76033.0 |
| ## | 32 | 2020 | GOOG | IT | 1179.40 | 182527.0 | 97795.000 | 40269.0 |
| ## | 33 | 2019 | GOOG | IT | 917.82 | 161857.0 | 89961.000 | 34343.0 |
| ## | 34 | 2018 | GOOG | IT | 719.63 | 136819.0 | 77270.000 | 30736.0 |
| ## | 35 | 2017 | GOOG | IT | 726.47 | 110855.0 | 65272.000 | 12662.0 |
| ## | 36 | 2016 | GOOG | IT | 530.84 | 90272.0 | 55134.000 | 19478.0 |
| ## | 37 | 2015 | GOOG | IT | 521.67 | 74989.0 | 46825.000 | 15826.0 |
| ## | 38 | 2014 | GOOG | IT | 354.75 | 66001.0 | 40310.000 | 14136.0 |
| ## | 39 | 2013 | GOOG | IT | 371.53 | 55519.0 | 33526.000 | 12733.0 |
| ## | 40 | 2012 | GOOG | IT | 230.54 | 46039.0 | 28863.000 | 10737.0 |
| ## | 41 | 2011 | GOOG | IT | 207.65 | 37905.0 | 24717.000 | 9737.0 |
| ## | 42 | 2010 | GOOG | IT | 188.54 | 29321.0 | 18904.000 | 8505.0 |
| ## | 43 | 2009 | GOOG | IT | 195.27 | 23651.0 | 14807.000 | 6520.0 |
| ## | 44 | 2021 | PYPL | FinTech | 221.57 | 25371.0 | 11921.000 | 4169.0 |
| ## | 45 | 2020 | PYPL | FinTech | 274.41 | 21454.0 | 10001.000 | 4202.0 |
| ## | 46 | 2019 | PYPL | FinTech | 127.01 | 17772.0 | 7987.000 | 2459.0 |
| ## | 47 | 2022 | MCD | FOOD | 186.39 | 23182.6 | 13207.200 | 6177.4 |
| ## | 48 | 2021 | MCD | FOOD | 193.02 | 23222.9 | 12580.200 | 7545.2 |
| ## | 49 | 2020 | MCD | FOOD | 200.31 | 19207.8 | 9752.101 | 4730.5 |
| ## | 50 | 2019 | MCD | FOOD | 159.89 | 21364.4 | 11179.400 | 6025.4 |
| ## | 51 | 2018 | MCD | FOOD | 148.82 | 21257.9 | 10832.600 | 5924.3 |
| ## | 52 | 2017 | MCD | FOOD | 136.89 | 22820.4 | 10620.800 | 5192.3 |
| ## | 53 | 2016 | MCD | FOOD | 137.21 | 24621.9 | 10204.700 | 4686.5 |
| ## | 54 | 2015 | MCD | FOOD | 101.08 | 25413.0 | 9789.200 | 4529.3 |
| ## | 55 | 2014 | MCD | FOOD | 108.48 | 27441.3 | 10455.700 | 4757.8 |
| ## | 56 | 2010 | MCD | FOOD | 102.66 | 24074.6 | 9637.300 | 4946.3 |
| ## | 57 | 2023 | NVDA | ELEC | 1000.35 | 26974.0 | 15356.000 | 4368.0 |
| ## | 58 | 2022 | NVDA | ELEC | 359.50 | 26914.0 | 17475.000 | 9752.0 |
| ## | 59 | 2021 | NVDA | ELEC | 735.86 | 16675.0 | 10396.000 | 4332.0 |
| ## | 60 | 2020 | NVDA | ELEC | 323.24 | 10918.0 | 6768.000 | 2796.0 |
| ## | 61 | 2019 | NVDA | ELEC | 144.00 | 11716.0 | 7171.000 | 4141.0 |
| ## | 62 | 2017 | NVDA | ELEC | 117.26 | 6910.0 | 4063.000 | 1666.0 |
| ## | 63 | 2022 | INTC | ELEC | 109.08 | 63054.0 | 26866.000 | 8014.0 |
| ## | 64 | 2021 | INTC | ELEC | 209.45 | 79024.0 | 43815.000 | 19868.0 |
| ## | 65 | 2020 | INTC | ELEC | 104.16 | 77867.0 | 43612.000 | 20899.0 |
| ## | 66 | 2019 | INTC | ELEC | 260.35 | 71965.0 | 42140.000 | 21048.0 |
| ## | 67 | 2018 | INTC | ELEC | 214.19 | 70848.0 | 43737.000 | 21053.0 |
| ## | 68 | 2017 | INTC | ELEC | 216.03 | 62761.0 | 39098.000 | 9601.0 |
| ## | 69 | 2016 | INTC | ELEC | 171.88 | 59387.0 | 36233.000 | 10316.0 |
| ## | 70 | 2015 | INTC | ELEC | 162.57 | 55355.0 | 34679.000 | 11420.0 |
| ## | 71 | 2014 | INTC | ELEC | 175.46 | 55870.0 | 35609.000 | 11704.0 |
| ## | 72 | 2013 | INTC | ELEC | 129.02 | 52708.0 | 31521.000 | 9620.0 |
| ## | 73 | 2012 | INTC | ELEC | 102.61 | 53341.0 | 33151.000 | 11005.0 |
| ## | 74 | 2011 | INTC | ELEC | 123.48 | 53999.0 | 33757.000 | 12942.0 |
| ## | 75 | 2010 | INTC | ELEC | 117.31 | 43623.0 | 28491.000 | 11464.0 |
| ## | 76 | 2009 | INTC | ELEC | 112.65 | 35127.0 | 19561.000 | 4369.0 |
| ## | 77 | 2022 | AMZN | LOGI | 856.94 | 513983.0 | 225152.000 | -2722.0 |
| ## | 78 | 2021 | AMZN | LOGI | 1691.00 | 469822.0 | 197478.000 | 33364.0 |
| ## | 79 | 2020 | AMZN | LOGI | 1634.16 | 386064.0 | 152757.000 | 21331.0 |
| ## | 80 | 2019 | AMZN | LOGI | 916.15 | 280522.0 | 114986.000 | 11588.0 |
| ## | 81 | 2018 | AMZN | LOGI | 734.42 | 232887.0 | 93731.000 | 10073.0 |
| ## | 82 | 2017 | AMZN | LOGI | 563.54 | 177866.0 | 65932.000 | 3033.0 |

| | | | | | | | |
|-------|-------------------|---------|------------|---------------------|----------|--------------------------|----------|
| ## 83 | 2016 | AMZN | LOGI | 356.31 | 135987.0 | 47722.000 | 2371.0 |
| ## 84 | 2015 | AMZN | LOGI | 316.83 | 107006.0 | 35355.000 | 596.0 |
| ## 85 | 2014 | AMZN | LOGI | 143.70 | 88988.0 | 26236.000 | -241.0 |
| ## 86 | 2013 | AMZN | LOGI | 182.54 | 74452.0 | 20271.000 | 274.0 |
| ## 87 | 2012 | AMZN | LOGI | 113.63 | 61093.0 | 15122.000 | -39.0 |
| ## | Earning.Per.Share | | EBITDA | Share.Holder.Equity | | Cash.Flow.from.Operating | |
| ## 1 | | 6.1100 | 130541.000 | | 50672.0 | | 122151.0 |
| ## 2 | | 5.6100 | 120233.000 | | 63090.0 | | 104038.0 |
| ## 3 | | 3.2800 | 77344.000 | | 65339.0 | | 80674.0 |
| ## 4 | | 2.9700 | 76477.000 | | 90488.0 | | 69391.0 |
| ## 5 | | 2.9800 | 81801.000 | | 107147.0 | | 77434.0 |
| ## 6 | | 2.3025 | 71501.000 | | 134047.0 | | 64225.0 |
| ## 7 | | 2.0775 | 70529.000 | | 128249.0 | | 66231.0 |
| ## 8 | | 2.3050 | 82487.000 | | 119355.0 | | 81266.0 |
| ## 9 | | 1.6125 | 60449.000 | | 111547.0 | | 59713.0 |
| ## 10 | | 1.4200 | 55756.000 | | 123549.0 | | 53666.0 |
| ## 11 | | 1.5775 | 58518.000 | | 118210.0 | | 50856.0 |
| ## 12 | | 0.9886 | 35604.000 | | 76615.0 | | 37529.0 |
| ## 13 | | 0.5411 | 19412.000 | | 47791.0 | | 18595.0 |
| ## 14 | | 0.3243 | 12474.000 | | 31640.0 | | 10159.0 |
| ## 15 | | 9.6800 | 102384.000 | | 206223.0 | | 87582.0 |
| ## 16 | | 9.6500 | 97843.000 | | 166542.0 | | 89035.0 |
| ## 17 | | 8.0500 | 81602.000 | | 141988.0 | | 76740.0 |
| ## 18 | | 5.7600 | 65755.000 | | 118304.0 | | 60675.0 |
| ## 19 | | 5.0600 | 54641.000 | | 102330.0 | | 52185.0 |
| ## 20 | | 2.1300 | 45319.000 | | 82718.0 | | 43884.0 |
| ## 21 | | 3.2500 | 37803.000 | | 87711.0 | | 39507.0 |
| ## 22 | | 2.5600 | 33330.000 | | 71997.0 | | 33325.0 |
| ## 23 | | 1.4800 | 31616.000 | | 80083.0 | | 29668.0 |
| ## 24 | | 2.6300 | 32971.000 | | 89784.0 | | 32502.0 |
| ## 25 | | 2.5800 | 30519.000 | | 78944.0 | | 28833.0 |
| ## 26 | | 2.0000 | 30923.000 | | 66363.0 | | 31626.0 |
| ## 27 | | 2.6900 | 29927.000 | | 57083.0 | | 26994.0 |
| ## 28 | | 2.1000 | 26771.000 | | 46175.0 | | 24073.0 |
| ## 29 | | 1.6200 | 22925.000 | | 39558.0 | | 19037.0 |
| ## 30 | | 4.5600 | 90770.000 | | 256144.0 | | 91495.0 |
| ## 31 | | 5.6100 | 91155.000 | | 251635.0 | | 91652.0 |
| ## 32 | | 2.9300 | 54921.000 | | 222544.0 | | 65124.0 |
| ## 33 | | 2.4580 | 46012.000 | | 201442.0 | | 54520.0 |
| ## 34 | | 2.1850 | 36559.000 | | 177628.0 | | 47971.0 |
| ## 35 | | 0.9000 | 33093.000 | | 152502.0 | | 37091.0 |
| ## 36 | | 1.3925 | 29860.000 | | 139036.0 | | 36036.0 |
| ## 37 | | 1.1420 | 24423.000 | | 120331.0 | | 26572.0 |
| ## 38 | | 1.0285 | 21475.000 | | 103860.0 | | 23024.0 |
| ## 39 | | 0.9395 | 19342.000 | | 87309.0 | | 18659.0 |
| ## 40 | | 0.8080 | 16796.000 | | 71715.0 | | 16619.0 |
| ## 41 | | 0.7440 | 13593.000 | | 58145.0 | | 14565.0 |
| ## 42 | | 0.6578 | 11777.000 | | 46241.0 | | 11081.0 |
| ## 43 | | 0.5103 | 9836.000 | | 36004.0 | | 9316.0 |
| ## 44 | | 3.5200 | 5527.000 | | 21727.0 | | 5797.0 |
| ## 45 | | 3.5400 | 4478.000 | | 20063.0 | | 6219.0 |
| ## 46 | | 2.0700 | 3631.000 | | 16929.0 | | 4071.0 |
| ## 47 | | 8.3300 | 11241.600 | | -6003.4 | | 7386.7 |
| ## 48 | | 10.0400 | 12224.100 | | -4601.0 | | 9141.5 |

| | | | | |
|-------|--------------------------|-----------|-------------------------------------|---------------|
| ## 49 | 6.3100 | 9075.400 | -7824.9 | 6265.2 |
| ## 50 | 7.8800 | 10687.700 | -8210.3 | 8122.1 |
| ## 51 | 7.5400 | 10304.600 | -6258.4 | 6966.7 |
| ## 52 | 6.3700 | 10916.100 | -3268.0 | 5551.2 |
| ## 53 | 5.4400 | 9261.002 | -2204.3 | 6059.6 |
| ## 54 | 4.8000 | 8701.200 | 7087.9 | 6539.1 |
| ## 55 | 4.8200 | 9593.701 | 12853.4 | 6730.3 |
| ## 56 | 4.5800 | 8749.300 | 14634.2 | 6341.6 |
| ## 57 | 1.7400 | 5768.000 | 22101.0 | 5641.0 |
| ## 58 | 3.8500 | 11215.000 | 26612.0 | 9108.0 |
| ## 59 | 1.7300 | 5630.000 | 16893.0 | 5822.0 |
| ## 60 | 1.1300 | 3227.000 | 12204.0 | 4761.0 |
| ## 61 | 1.6575 | 4066.000 | 9342.0 | 3743.0 |
| ## 62 | 0.6425 | 2121.000 | 5762.0 | 1672.0 |
| ## 63 | 1.9400 | 15369.000 | 103286.0 | 15433.0 |
| ## 64 | 4.8600 | 31248.000 | 95391.0 | 29456.0 |
| ## 65 | 4.9400 | 35917.000 | 81038.0 | 35864.0 |
| ## 66 | 4.7100 | 32861.000 | 77504.0 | 33145.0 |
| ## 67 | 4.4800 | 32401.000 | 74563.0 | 29432.0 |
| ## 68 | 1.9900 | 26179.000 | 69019.0 | 22110.0 |
| ## 69 | 2.1200 | 20923.000 | 66226.0 | 21808.0 |
| ## 70 | 2.3300 | 22713.000 | 61085.0 | 19018.0 |
| ## 71 | 2.3100 | 23896.000 | 55865.0 | 20418.0 |
| ## 72 | 1.8900 | 20323.000 | 58256.0 | 20776.0 |
| ## 73 | 2.1300 | 22160.000 | 51203.0 | 18884.0 |
| ## 74 | 2.3900 | 23541.000 | 45911.0 | 20963.0 |
| ## 75 | 2.0100 | 20226.000 | 49430.0 | 16692.0 |
| ## 76 | 0.7700 | 10763.000 | 41704.0 | 11170.0 |
| ## 77 | -0.2700 | 54169.000 | 146043.0 | 46752.0 |
| ## 78 | 3.2400 | 59312.000 | 138245.0 | 46327.0 |
| ## 79 | 2.0900 | 48079.000 | 93404.0 | 66064.0 |
| ## 80 | 1.1505 | 36330.000 | 62060.0 | 38514.0 |
| ## 81 | 1.0070 | 27762.000 | 43549.0 | 30723.0 |
| ## 82 | 0.3075 | 15584.000 | 27709.0 | 18365.0 |
| ## 83 | 0.2450 | 12302.000 | 19285.0 | 17203.0 |
| ## 84 | 0.0625 | 8514.000 | 13384.0 | 12039.0 |
| ## 85 | -0.0260 | 4924.000 | 10741.0 | 6842.0 |
| ## 86 | 0.0295 | 3998.000 | 9746.0 | 5475.0 |
| ## 87 | -0.0045 | 2835.000 | 8192.0 | 4180.0 |
| ## | Cash.Flow.from.Investing | | Cash.Flow.from.Financial.Activities | Current.Ratio |
| ## 1 | -22354.0 | | -110749.0 | 0.8794 |
| ## 2 | -14545.0 | | -93353.0 | 1.0746 |
| ## 3 | -4289.0 | | -86820.0 | 1.3636 |
| ## 4 | 45896.0 | | -90976.0 | 1.5401 |
| ## 5 | 16066.0 | | -87876.0 | 1.1329 |
| ## 6 | -46446.0 | | -17974.0 | 1.2761 |
| ## 7 | -45977.0 | | -20890.0 | 1.3527 |
| ## 8 | -56274.0 | | -17716.0 | 1.1088 |
| ## 9 | -22579.0 | | -37549.0 | 1.0801 |
| ## 10 | -33774.0 | | -16379.0 | 1.6786 |
| ## 11 | -48227.0 | | -1698.0 | 1.4958 |
| ## 12 | -40419.0 | | 1444.0 | 1.6084 |
| ## 13 | -13854.0 | | 1257.0 | 2.0113 |
| ## 14 | -17434.0 | | 663.0 | 2.7425 |

| | | | |
|-------|----------|----------|---------|
| ## 15 | -22680.0 | -43935.0 | 1.7692 |
| ## 16 | -30311.0 | -58876.0 | 1.7846 |
| ## 17 | -27577.0 | -48486.0 | 2.0800 |
| ## 18 | -12223.0 | -46031.0 | 2.5158 |
| ## 19 | -15773.0 | -36887.0 | 2.5288 |
| ## 20 | -6061.0 | -33590.0 | 2.9008 |
| ## 21 | -46781.0 | 8408.0 | 2.9186 |
| ## 22 | -23950.0 | -8393.0 | 2.3529 |
| ## 23 | -23001.0 | -9668.0 | 2.4734 |
| ## 24 | -18833.0 | -8665.0 | 2.5040 |
| ## 25 | -23811.0 | -8148.0 | 2.7118 |
| ## 26 | -24786.0 | -9408.0 | 2.6029 |
| ## 27 | -14616.0 | -8376.0 | 2.6037 |
| ## 28 | -11314.0 | -13291.0 | 2.1293 |
| ## 29 | -15770.0 | -7463.0 | 1.8229 |
| ## 30 | -20298.0 | -69757.0 | 2.3780 |
| ## 31 | -35523.0 | -61362.0 | 2.9281 |
| ## 32 | -32773.0 | -24408.0 | 3.0668 |
| ## 33 | -29491.0 | -23209.0 | 3.3741 |
| ## 34 | -28504.0 | -13179.0 | 3.9190 |
| ## 35 | -31401.0 | -8298.0 | 5.1403 |
| ## 36 | -31165.0 | -8332.0 | 6.2908 |
| ## 37 | -23711.0 | -4225.0 | 4.6667 |
| ## 38 | -21055.0 | -2087.0 | 4.6878 |
| ## 39 | -13679.0 | -857.0 | 4.5817 |
| ## 40 | -13056.0 | 1229.0 | 4.2166 |
| ## 41 | -19041.0 | 807.0 | 5.9192 |
| ## 42 | -10680.0 | 3050.0 | 4.1579 |
| ## 43 | -8019.0 | 233.0 | 10.6178 |
| ## 44 | -5149.0 | -557.0 | 1.2218 |
| ## 45 | -16545.0 | 12454.0 | 1.3264 |
| ## 46 | -5742.0 | 4187.0 | 1.4300 |
| ## 47 | -2678.1 | -6580.2 | 1.4266 |
| ## 48 | -2165.7 | -5595.6 | 1.7782 |
| ## 49 | -1545.8 | -2249.0 | 1.0100 |
| ## 50 | -3071.1 | -4994.8 | 0.9826 |
| ## 51 | -2455.1 | -5949.6 | 1.3631 |
| ## 52 | 562.0 | -5310.8 | 1.8429 |
| ## 53 | -981.6 | -11262.4 | 1.3980 |
| ## 54 | -1420.0 | 735.3 | 3.2684 |
| ## 55 | -2304.9 | -4618.3 | 1.5232 |
| ## 56 | -2056.0 | -3728.7 | 1.4937 |
| ## 57 | 7375.0 | -11617.0 | 3.5156 |
| ## 58 | -9830.0 | 1865.0 | 6.6503 |
| ## 59 | -19675.0 | 3804.0 | 4.0904 |
| ## 60 | 6145.0 | -792.0 | 7.6738 |
| ## 61 | -4097.0 | -2866.0 | 7.9436 |
| ## 62 | -793.0 | 291.0 | 4.7740 |
| ## 63 | -10477.0 | 1361.0 | 1.5676 |
| ## 64 | -24449.0 | -6045.0 | 2.1323 |
| ## 65 | -21524.0 | -12669.0 | 1.9087 |
| ## 66 | -14405.0 | -17565.0 | 1.4002 |
| ## 67 | -11239.0 | -18607.0 | 1.7314 |
| ## 68 | -15762.0 | -8475.0 | 1.6934 |

| | | | |
|-------|----------|----------|--------|
| ## 69 | -25817.0 | -5739.0 | 1.7490 |
| ## 70 | -8183.0 | 1912.0 | 2.4492 |
| ## 71 | -9905.0 | -13611.0 | 1.7319 |
| ## 72 | -18073.0 | -5498.0 | 2.3647 |
| ## 73 | -14060.0 | -1408.0 | 2.4312 |
| ## 74 | -10301.0 | -11100.0 | 2.1510 |
| ## 75 | -10539.0 | -4642.0 | 3.3892 |
| ## 76 | -7965.0 | -2568.0 | 2.7871 |
| ## 77 | -37601.0 | 9718.0 | 0.9446 |
| ## 78 | -58154.0 | 6291.0 | 1.1358 |
| ## 79 | -59611.0 | -1104.0 | 1.0502 |
| ## 80 | -24281.0 | -10066.0 | 1.0970 |
| ## 81 | -12369.0 | -7686.0 | 1.0981 |
| ## 82 | -27084.0 | 9928.0 | 1.0400 |
| ## 83 | -9516.0 | -3716.0 | 1.0448 |
| ## 84 | -6450.0 | -3882.0 | 1.0536 |
| ## 85 | -5065.0 | 4432.0 | 1.1153 |
| ## 86 | -4276.0 | -539.0 | 1.0716 |
| ## 87 | -3595.0 | 2259.0 | 1.1207 |

| ## | Debt.Equity.Ratio | ROE | ROA | ROI | Net.Profit.Margin |
|-------|-------------------|----------|---------|---------|-------------------|
| ## 1 | 2.3695 | 196.9589 | 28.2924 | 66.6994 | 25.3096 |
| ## 2 | 1.9768 | 150.0713 | 26.9742 | 54.9839 | 25.8818 |
| ## 3 | 1.7208 | 87.8664 | 17.7256 | 35.0054 | 20.9136 |
| ## 4 | 1.1940 | 61.0645 | 16.3230 | 30.3113 | 21.2381 |
| ## 5 | 1.0685 | 55.5601 | 16.2775 | 29.6348 | 22.4142 |
| ## 6 | 0.8630 | 36.0702 | 12.8826 | 20.9082 | 21.0924 |
| ## 7 | 0.6786 | 35.6237 | 14.2024 | 22.4312 | 21.1868 |
| ## 8 | 0.5390 | 44.7355 | 18.3899 | 30.9201 | 22.8458 |
| ## 9 | 0.3164 | 35.4201 | 17.0420 | 28.1142 | 21.6144 |
| ## 10 | 0.1373 | 29.9776 | 17.8923 | 26.3592 | 21.6705 |
| ## 11 | 0.0000 | 35.3041 | 23.7033 | 35.3041 | 26.6651 |
| ## 12 | 0.0000 | 33.8341 | 22.2753 | 33.8341 | 23.9466 |
| ## 13 | 0.0000 | 29.3214 | 18.6385 | 29.3214 | 21.4841 |
| ## 14 | 0.0000 | 26.0272 | 17.3365 | 26.0272 | 19.1936 |
| ## 15 | 0.2291 | 35.0887 | 17.5644 | 29.1528 | 34.1462 |
| ## 16 | 0.2989 | 43.6755 | 19.9370 | 34.0575 | 36.6863 |
| ## 17 | 0.4095 | 43.1522 | 18.3568 | 31.9017 | 36.4517 |
| ## 18 | 0.5353 | 37.4298 | 14.6961 | 24.8935 | 30.9625 |
| ## 19 | 0.7053 | 38.3465 | 13.6937 | 23.2200 | 31.1817 |
| ## 20 | 0.9217 | 20.0331 | 6.4018 | 10.6937 | 15.0154 |
| ## 21 | 0.9827 | 29.0602 | 10.1829 | 15.5626 | 26.3941 |
| ## 22 | 0.7425 | 28.5276 | 10.6162 | 18.2481 | 22.5322 |
| ## 23 | 0.4407 | 15.2255 | 6.9885 | 11.3012 | 13.0295 |
| ## 24 | 0.2522 | 24.5857 | 12.8051 | 19.9893 | 25.4212 |
| ## 25 | 0.1976 | 27.6943 | 15.3499 | 23.8822 | 28.0839 |
| ## 26 | 0.1800 | 25.5835 | 14.0001 | 22.0276 | 23.0295 |
| ## 27 | 0.2088 | 40.5550 | 21.2964 | 33.5488 | 33.0984 |
| ## 28 | 0.1286 | 40.6280 | 21.7853 | 36.7023 | 30.0237 |
| ## 29 | 0.1453 | 36.8295 | 18.7051 | 33.6435 | 24.9311 |
| ## 30 | 0.0574 | 23.4134 | 16.4188 | 22.1426 | 21.2038 |
| ## 31 | 0.0589 | 30.2156 | 21.1633 | 28.5354 | 29.5117 |
| ## 32 | 0.0626 | 18.0949 | 12.5992 | 17.0288 | 22.0619 |
| ## 33 | 0.0226 | 17.0486 | 12.4472 | 16.6717 | 21.2181 |
| ## 34 | 0.0226 | 17.3036 | 13.2032 | 16.9214 | 22.4647 |

| | | | | | |
|-------|--|-----------|---------|---------|---------|
| ## 35 | 0.0260 | 8.3028 | 6.4178 | 8.0922 | 11.4221 |
| ## 36 | 0.0283 | 14.0093 | 11.6289 | 13.6237 | 21.5770 |
| ## 37 | 0.0434 | 13.5859 | 11.0863 | 13.3643 | 21.1044 |
| ## 38 | 0.0504 | 13.1138 | 10.5429 | 12.7185 | 21.4179 |
| ## 39 | 0.0601 | 15.0729 | 11.8644 | 14.6965 | 22.9345 |
| ## 40 | 0.0772 | 16.1096 | 12.3169 | 15.4652 | 23.3215 |
| ## 41 | 0.0723 | 16.7461 | 13.4167 | 15.9281 | 25.6879 |
| ## 42 | 0.0749 | 18.3928 | 14.7016 | 18.3928 | 29.0065 |
| ## 43 | 0.0000 | 18.1091 | 16.1000 | 18.1091 | 27.5675 |
| ## 44 | 0.3705 | 19.1881 | 5.4998 | 14.0012 | 16.4322 |
| ## 45 | 0.4455 | 20.9440 | 5.9705 | 14.4887 | 19.5861 |
| ## 46 | 0.2933 | 14.5254 | 4.7903 | 11.2314 | 13.8364 |
| ## 47 | -5.9805 | -102.8983 | 12.2481 | 20.6601 | 26.6467 |
| ## 48 | -7.7424 | -163.9903 | 14.0104 | 24.3223 | 32.4903 |
| ## 49 | -4.7848 | -60.4545 | 8.9888 | 17.2823 | 24.6280 |
| ## 50 | -4.1627 | -73.3883 | 12.6822 | 23.2571 | 28.2030 |
| ## 51 | -4.9654 | -94.6616 | 18.0557 | 23.8720 | 27.8687 |
| ## 52 | -9.0381 | -158.8832 | 15.3602 | 19.7663 | 22.7529 |
| ## 53 | -11.7750 | -212.6069 | 15.1061 | 19.7958 | 19.0339 |
| ## 54 | 3.4033 | 63.9019 | 11.9385 | 14.5123 | 17.8228 |
| ## 55 | 1.1620 | 37.0159 | 13.9006 | 17.1211 | 17.3381 |
| ## 56 | 0.7862 | 33.7996 | 15.4692 | 18.9287 | 20.5457 |
| ## 57 | 0.4956 | 19.7638 | 10.6066 | 13.7341 | 16.1934 |
| ## 58 | 0.4113 | 36.6451 | 22.0698 | 25.9652 | 36.2339 |
| ## 59 | 0.4122 | 25.6438 | 15.0464 | 18.9526 | 25.9790 |
| ## 60 | 0.1631 | 22.9105 | 16.1479 | 19.6971 | 25.6091 |
| ## 61 | 0.2128 | 44.3267 | 31.1541 | 36.5490 | 35.3448 |
| ## 62 | 0.4877 | 28.9136 | 16.9292 | 21.4249 | 24.1100 |
| ## 63 | 0.4071 | 7.7619 | 4.4025 | 5.6870 | 12.7097 |
| ## 64 | 0.3994 | 20.8280 | 11.7977 | 15.4134 | 25.1417 |
| ## 65 | 0.4492 | 25.7891 | 13.6514 | 18.1833 | 26.8394 |
| ## 66 | 0.3742 | 27.1573 | 15.4171 | 20.4723 | 29.2476 |
| ## 67 | 0.3535 | 28.2352 | 16.4524 | 21.1246 | 29.7157 |
| ## 68 | 0.3885 | 13.9107 | 7.7899 | 10.2078 | 15.2977 |
| ## 69 | 0.3818 | 15.5770 | 9.1029 | 11.8745 | 17.3708 |
| ## 70 | 0.3711 | 18.6953 | 11.2558 | 14.0777 | 20.6305 |
| ## 71 | 0.2444 | 20.9505 | 12.7356 | 17.2310 | 20.9486 |
| ## 72 | 0.2308 | 16.5133 | 10.4160 | 13.4694 | 18.2515 |
| ## 73 | 0.2626 | 21.4929 | 13.0467 | 17.1047 | 20.6314 |
| ## 74 | 0.1597 | 28.1893 | 18.1977 | 24.4212 | 23.9671 |
| ## 75 | 0.0428 | 23.1924 | 18.1433 | 22.2572 | 26.2797 |
| ## 76 | 0.0533 | 10.4762 | 8.2286 | 9.9856 | 12.4377 |
| ## 77 | 0.4598 | -1.8638 | -0.5883 | -1.2768 | -0.5296 |
| ## 78 | 0.3526 | 24.1340 | 7.9334 | 17.8428 | 7.1014 |
| ## 79 | 0.3406 | 22.8374 | 6.6411 | 17.0348 | 5.5252 |
| ## 80 | 0.3773 | 18.6723 | 5.1446 | 13.5573 | 4.1309 |
| ## 81 | 0.5395 | 23.1303 | 6.1931 | 15.0245 | 4.3253 |
| ## 82 | 0.8930 | 10.9459 | 2.3098 | 5.7824 | 1.7052 |
| ## 83 | 0.3990 | 12.2945 | 2.8429 | 8.7883 | 1.7435 |
| ## 84 | 0.6147 | 4.4531 | 0.9205 | 2.7579 | 0.5570 |
| ## 85 | 0.7695 | -2.2437 | -0.4422 | -1.2680 | -0.2708 |
| ## 86 | 0.3274 | 2.8114 | 0.6823 | 2.1180 | 0.3680 |
| ## 87 | 0.3765 | -0.4761 | -0.1198 | -0.3459 | -0.0638 |
| ## | Free.Cash.Flow.per.Share Return.on.Tangible.Equity Number.of.Employees | | | | |

| | | | |
|-------|---------|-----------|--------|
| ## 1 | 1.3146 | 196.9589 | 164000 |
| ## 2 | 1.3261 | 150.0713 | 154000 |
| ## 3 | 1.0183 | 87.8664 | 147000 |
| ## 4 | -0.0388 | 61.0645 | 137000 |
| ## 5 | 0.7414 | 55.5601 | 132000 |
| ## 6 | 0.0330 | 36.0702 | 123000 |
| ## 7 | -0.5901 | 38.1906 | 116000 |
| ## 8 | 0.9743 | 48.3878 | 110000 |
| ## 9 | 0.3032 | 38.4380 | 97000 |
| ## 10 | 0.1363 | 31.4425 | 84400 |
| ## 11 | 0.3394 | 36.9806 | 76100 |
| ## 12 | 0.6278 | 35.9115 | 63300 |
| ## 13 | 0.2857 | 30.0013 | 49400 |
| ## 14 | 0.3550 | 26.4052 | 36800 |
| ## 15 | -0.6808 | 56.1064 | 221000 |
| ## 16 | 1.2643 | 82.9207 | 221000 |
| ## 17 | 1.4887 | 72.5298 | 181000 |
| ## 18 | 0.9526 | 65.2006 | 163000 |
| ## 19 | 0.7968 | 74.6661 | 144000 |
| ## 20 | 0.1317 | 42.5094 | 131000 |
| ## 21 | 0.8887 | 59.9981 | 124000 |
| ## 22 | 0.2435 | 40.7585 | 114000 |
| ## 23 | -0.3425 | 20.9110 | 118000 |
| ## 24 | 0.3152 | 35.2192 | 128000 |
| ## 25 | -0.5456 | 35.7204 | 118000 |
| ## 26 | 0.5798 | 34.1328 | 128000 |
| ## 27 | 0.3921 | 52.9046 | 99000 |
| ## 28 | 0.7057 | 57.5054 | 94000 |
| ## 29 | 1.7695 | 57.5941 | 90000 |
| ## 30 | -0.3613 | 26.6424 | 190234 |
| ## 31 | 1.7123 | 33.4561 | 156500 |
| ## 32 | 0.8430 | 20.1422 | 135301 |
| ## 33 | 0.5566 | 19.2033 | 118899 |
| ## 34 | -0.0705 | 19.5124 | 98771 |
| ## 35 | -0.1510 | 9.5158 | 80110 |
| ## 36 | 0.6249 | 16.3323 | 72053 |
| ## 37 | 0.3054 | 16.2481 | 61814 |
| ## 38 | 0.0463 | 16.2814 | 53600 |
| ## 39 | -0.2373 | 18.8671 | 47756 |
| ## 40 | 0.1539 | 21.5120 | 53861 |
| ## 41 | 0.3039 | 19.7822 | 32467 |
| ## 42 | -0.1195 | 21.8407 | 24400 |
| ## 43 | 0.6657 | 21.4997 | 19835 |
| ## 44 | -0.4843 | 46.6279 | 30900 |
| ## 45 | 1.7623 | 42.5304 | 26500 |
| ## 46 | -1.0251 | 24.7409 | 23200 |
| ## 47 | -2.1323 | -69.3794 | 150000 |
| ## 48 | 3.3857 | -102.1900 | 200000 |
| ## 49 | -1.4852 | -44.6358 | 200000 |
| ## 50 | 2.1046 | -55.3414 | 205000 |
| ## 51 | 0.8436 | -68.9682 | 210000 |
| ## 52 | -0.2793 | -91.9365 | 235000 |
| ## 53 | -0.2100 | -103.2087 | 375000 |
| ## 54 | 0.9354 | 99.0748 | 420000 |

| | | | |
|-------|-----------------------|---------|---------|
| ## 55 | 0.0221 | 47.0227 | 420000 |
| ## 56 | 0.4630 | 41.0546 | 400000 |
| ## 57 | -1.6890 | 27.2099 | 26196 |
| ## 58 | 1.3378 | 48.9460 | 22473 |
| ## 59 | 0.1419 | 43.4809 | 18975 |
| ## 60 | 0.4710 | 24.2351 | 13775 |
| ## 61 | 0.1057 | 47.7129 | 13277 |
| ## 62 | 0.0975 | 33.0556 | 10299 |
| ## 63 | -4.5640 | 11.5060 | 131900 |
| ## 64 | -2.8278 | 32.4864 | 121100 |
| ## 65 | 1.2739 | 46.4000 | 110600 |
| ## 66 | 0.7539 | 52.0977 | 110800 |
| ## 67 | 0.8946 | 55.0924 | 107400 |
| ## 68 | -0.3622 | 30.1113 | 102700 |
| ## 69 | 0.1101 | 24.1972 | 106000 |
| ## 70 | 0.3492 | 24.9236 | 107300 |
| ## 71 | 0.0651 | 28.8574 | 106700 |
| ## 72 | 0.4520 | 22.5859 | 107600 |
| ## 73 | -0.3622 | 31.2128 | 105000 |
| ## 74 | -0.1314 | 42.5864 | 100100 |
| ## 75 | 0.8374 | 26.0315 | 82500 |
| ## 76 | 1.1789 | 11.7185 | 79800 |
| ## 77 | -0.2546 | -2.1645 | 1541000 |
| ## 78 | -3.9226 | 27.1530 | 1608000 |
| ## 79 | 0.4798 | 27.2124 | 1298000 |
| ## 80 | 0.6220 | 24.4958 | 798000 |
| ## 81 | 1.0975 | 34.7333 | 647500 |
| ## 82 | -0.2387 | 21.1226 | 566000 |
| ## 83 | 0.3003 | 15.2958 | 341400 |
| ## 84 | 0.5700 | 6.1922 | 230800 |
| ## 85 | -0.0075 | -3.2471 | 154100 |
| ## 86 | 0.1748 | 3.8641 | 117300 |
| ## 87 | -0.1833 | -0.6915 | 88400 |
| ## | Inflation.Rate.in.US. | | |
| ## 1 | 8.0028 | | |
| ## 2 | 4.6979 | | |
| ## 3 | 1.2336 | | |
| ## 4 | 1.8122 | | |
| ## 5 | 2.4426 | | |
| ## 6 | 2.1301 | | |
| ## 7 | 1.2616 | | |
| ## 8 | 0.1186 | | |
| ## 9 | 1.6222 | | |
| ## 10 | 1.4648 | | |
| ## 11 | 2.0693 | | |
| ## 12 | 3.1568 | | |
| ## 13 | 1.6400 | | |
| ## 14 | -0.3555 | | |
| ## 15 | 3.7000 | | |
| ## 16 | 8.0028 | | |
| ## 17 | 4.6979 | | |
| ## 18 | 1.2336 | | |
| ## 19 | 1.8122 | | |
| ## 20 | 2.4426 | | |

| | |
|-------|---------|
| ## 21 | 2.1301 |
| ## 22 | 1.2616 |
| ## 23 | 0.1186 |
| ## 24 | 1.6222 |
| ## 25 | 1.4648 |
| ## 26 | 2.0693 |
| ## 27 | 3.1568 |
| ## 28 | 1.6400 |
| ## 29 | -0.3555 |
| ## 30 | 8.0028 |
| ## 31 | 4.6979 |
| ## 32 | 1.2336 |
| ## 33 | 1.8122 |
| ## 34 | 2.4426 |
| ## 35 | 2.1301 |
| ## 36 | 1.2616 |
| ## 37 | 0.1186 |
| ## 38 | 1.6222 |
| ## 39 | 1.4648 |
| ## 40 | 2.0693 |
| ## 41 | 3.1568 |
| ## 42 | 1.6400 |
| ## 43 | -0.3555 |
| ## 44 | 4.6979 |
| ## 45 | 1.2336 |
| ## 46 | 1.8122 |
| ## 47 | 8.0028 |
| ## 48 | 4.6979 |
| ## 49 | 1.2336 |
| ## 50 | 1.8122 |
| ## 51 | 2.4426 |
| ## 52 | 2.1301 |
| ## 53 | 1.2616 |
| ## 54 | 0.1186 |
| ## 55 | 1.6222 |
| ## 56 | 1.6400 |
| ## 57 | 3.7000 |
| ## 58 | 8.0028 |
| ## 59 | 4.6979 |
| ## 60 | 1.2336 |
| ## 61 | 1.8122 |
| ## 62 | 2.1301 |
| ## 63 | 8.0028 |
| ## 64 | 4.6979 |
| ## 65 | 1.2336 |
| ## 66 | 1.8122 |
| ## 67 | 2.4426 |
| ## 68 | 2.1301 |
| ## 69 | 1.2616 |
| ## 70 | 0.1186 |
| ## 71 | 1.6222 |
| ## 72 | 1.4648 |
| ## 73 | 2.0693 |
| ## 74 | 3.1568 |

```
## 75          1.6400
## 76        -0.3555
## 77          8.0028
## 78          4.6979
## 79          1.2336
## 80          1.8122
## 81          2.4426
## 82          2.1301
## 83          1.2616
## 84          0.1186
## 85          1.6222
## 86          1.4648
## 87          2.0693
```

3. Arrange by Revenue (descending)

```
arranged_data <- distinct_data %>%
  arrange(desc(Revenue))
cat("Number of rows after arranging:", nrow(arranged_data), "\n")
```

```
## Number of rows after arranging: 87
```

```
print("Arranged Data:")
```

```
## [1] "Arranged Data:"
```

```
print(arranged_data)
```

```
##   Year Company Category Market.Cap.in.B.USD. Revenue Gross.Profit Net.Income
## 1  2022   AMZN      LOGI          856.94 513983.0   225152.000   -2722.0
## 2  2021   AMZN      LOGI         1691.00 469822.0   197478.000   33364.0
## 3  2022   AAPL      IT          2066.94 394328.0   170782.000   99803.0
## 4  2020   AMZN      LOGI         1634.16 386064.0   152757.000   21331.0
## 5  2021   AAPL      IT          2913.28 365817.0   152836.000   94680.0
## 6  2022   GOOG      IT          1144.35 282836.0   156633.000   59972.0
## 7  2019   AMZN      LOGI           916.15 280522.0   114986.000   11588.0
## 8  2020   AAPL      IT          2255.97 274515.0   104956.000   57411.0
## 9  2018   AAPL      IT           748.54 265595.0   101839.000   59531.0
## 10 2019   AAPL      IT          1304.76 260174.0    98392.000   55256.0
## 11 2021   GOOG      IT          1910.26 257637.0   146698.000   76033.0
## 12 2015   AAPL      IT           586.86 233715.0    93626.000   53394.0
## 13 2018   AMZN      LOGI           734.42 232887.0    93731.000   10073.0
## 14 2017   AAPL      IT           868.87 229234.0    88186.000   48351.0
## 15 2016   AAPL      IT           617.59 215639.0    84263.000   45687.0
## 16 2023   MSFT      IT          2451.23 211915.0   146052.000   72361.0
## 17 2022   MSFT      IT          1787.73 198270.0   135620.000   72738.0
## 18 2014   AAPL      IT           647.36 182795.0    70537.000   39510.0
## 19 2020   GOOG      IT          1179.40 182527.0    97795.000   40269.0
## 20 2017   AMZN      LOGI           563.54 177866.0    65932.000    3033.0
## 21 2013   AAPL      IT           504.79 170910.0    64304.000   37037.0
## 22 2021   MSFT      IT          2525.08 168088.0   115856.000   61271.0
## 23 2019   GOOG      IT           917.82 161857.0    89961.000   34343.0
## 24 2012   AAPL      IT           500.61 156508.0    68662.000   41733.0
## 25 2020   MSFT      IT          1681.61 143015.0    96937.000   44281.0
## 26 2018   GOOG      IT           719.63 136819.0    77270.000   30736.0
```


| | | | | | | | | |
|----|----|------|------|---------|---------|----------|-----------|---------|
| ## | 27 | 2016 | AMZN | LOGI | 356.31 | 135987.0 | 47722.000 | 2371.0 |
| ## | 28 | 2019 | MSFT | IT | 1203.06 | 125843.0 | 82933.000 | 39240.0 |
| ## | 29 | 2017 | GOOG | IT | 726.47 | 110855.0 | 65272.000 | 12662.0 |
| ## | 30 | 2018 | MSFT | IT | 779.67 | 110360.0 | 72007.000 | 16571.0 |
| ## | 31 | 2011 | AAPL | IT | 376.40 | 108249.0 | 43818.000 | 25922.0 |
| ## | 32 | 2015 | AMZN | LOGI | 316.83 | 107006.0 | 35355.000 | 596.0 |
| ## | 33 | 2017 | MSFT | IT | 659.91 | 96571.0 | 62310.000 | 25489.0 |
| ## | 34 | 2015 | MSFT | IT | 443.17 | 93580.0 | 60542.000 | 12193.0 |
| ## | 35 | 2016 | MSFT | IT | 483.16 | 91154.0 | 58374.000 | 20539.0 |
| ## | 36 | 2016 | GOOG | IT | 530.84 | 90272.0 | 55134.000 | 19478.0 |
| ## | 37 | 2014 | AMZN | LOGI | 143.70 | 88988.0 | 26236.000 | -241.0 |
| ## | 38 | 2014 | MSFT | IT | 382.88 | 86833.0 | 59755.000 | 22074.0 |
| ## | 39 | 2021 | INTC | ELEC | 209.45 | 79024.0 | 43815.000 | 19868.0 |
| ## | 40 | 2020 | INTC | ELEC | 104.16 | 77867.0 | 43612.000 | 20899.0 |
| ## | 41 | 2013 | MSFT | IT | 312.30 | 77849.0 | 57464.000 | 21863.0 |
| ## | 42 | 2015 | GOOG | IT | 521.67 | 74989.0 | 46825.000 | 15826.0 |
| ## | 43 | 2013 | AMZN | LOGI | 182.54 | 74452.0 | 20271.000 | 274.0 |
| ## | 44 | 2012 | MSFT | IT | 224.80 | 73723.0 | 56193.000 | 16978.0 |
| ## | 45 | 2019 | INTC | ELEC | 260.35 | 71965.0 | 42140.000 | 21048.0 |
| ## | 46 | 2018 | INTC | ELEC | 214.19 | 70848.0 | 43737.000 | 21053.0 |
| ## | 47 | 2011 | MSFT | IT | 218.38 | 69943.0 | 54366.000 | 23150.0 |
| ## | 48 | 2014 | GOOG | IT | 354.75 | 66001.0 | 40310.000 | 14136.0 |
| ## | 49 | 2010 | AAPL | IT | 296.89 | 65225.0 | 25684.000 | 14013.0 |
| ## | 50 | 2022 | INTC | ELEC | 109.08 | 63054.0 | 26866.000 | 8014.0 |
| ## | 51 | 2017 | INTC | ELEC | 216.03 | 62761.0 | 39098.000 | 9601.0 |
| ## | 52 | 2010 | MSFT | IT | 238.78 | 62484.0 | 50089.000 | 18760.0 |
| ## | 53 | 2012 | AMZN | LOGI | 113.63 | 61093.0 | 15122.000 | -39.0 |
| ## | 54 | 2016 | INTC | ELEC | 171.88 | 59387.0 | 36233.000 | 10316.0 |
| ## | 55 | 2009 | MSFT | IT | 270.64 | 58437.0 | 46282.000 | 14569.0 |
| ## | 56 | 2014 | INTC | ELEC | 175.46 | 55870.0 | 35609.000 | 11704.0 |
| ## | 57 | 2013 | GOOG | IT | 371.53 | 55519.0 | 33526.000 | 12733.0 |
| ## | 58 | 2015 | INTC | ELEC | 162.57 | 55355.0 | 34679.000 | 11420.0 |
| ## | 59 | 2011 | INTC | ELEC | 123.48 | 53999.0 | 33757.000 | 12942.0 |
| ## | 60 | 2012 | INTC | ELEC | 102.61 | 53341.0 | 33151.000 | 11005.0 |
| ## | 61 | 2013 | INTC | ELEC | 129.02 | 52708.0 | 31521.000 | 9620.0 |
| ## | 62 | 2012 | GOOG | IT | 230.54 | 46039.0 | 28863.000 | 10737.0 |
| ## | 63 | 2010 | INTC | ELEC | 117.31 | 43623.0 | 28491.000 | 11464.0 |
| ## | 64 | 2009 | AAPL | IT | 189.80 | 42905.0 | 17222.000 | 8235.0 |
| ## | 65 | 2011 | GOOG | IT | 207.65 | 37905.0 | 24717.000 | 9737.0 |
| ## | 66 | 2009 | INTC | ELEC | 112.65 | 35127.0 | 19561.000 | 4369.0 |
| ## | 67 | 2010 | GOOG | IT | 188.54 | 29321.0 | 18904.000 | 8505.0 |
| ## | 68 | 2014 | MCD | FOOD | 108.48 | 27441.3 | 10455.700 | 4757.8 |
| ## | 69 | 2023 | NVDA | ELEC | 1000.35 | 26974.0 | 15356.000 | 4368.0 |
| ## | 70 | 2022 | NVDA | ELEC | 359.50 | 26914.0 | 17475.000 | 9752.0 |
| ## | 71 | 2015 | MCD | FOOD | 101.08 | 25413.0 | 9789.200 | 4529.3 |
| ## | 72 | 2021 | PYPL | FinTech | 221.57 | 25371.0 | 11921.000 | 4169.0 |
| ## | 73 | 2016 | MCD | FOOD | 137.21 | 24621.9 | 10204.700 | 4686.5 |
| ## | 74 | 2010 | MCD | FOOD | 102.66 | 24074.6 | 9637.300 | 4946.3 |
| ## | 75 | 2009 | GOOG | IT | 195.27 | 23651.0 | 14807.000 | 6520.0 |
| ## | 76 | 2021 | MCD | FOOD | 193.02 | 23222.9 | 12580.200 | 7545.2 |
| ## | 77 | 2022 | MCD | FOOD | 186.39 | 23182.6 | 13207.200 | 6177.4 |
| ## | 78 | 2017 | MCD | FOOD | 136.89 | 22820.4 | 10620.800 | 5192.3 |
| ## | 79 | 2020 | PYPL | FinTech | 274.41 | 21454.0 | 10001.000 | 4202.0 |
| ## | 80 | 2019 | MCD | FOOD | 159.89 | 21364.4 | 11179.400 | 6025.4 |

| | | | | | | | |
|-------|-------------------|---------|------------|----------|---------------------|--------------------------|--------|
| ## 81 | 2018 | MCD | FOOD | 148.82 | 21257.9 | 10832.600 | 5924.3 |
| ## 82 | 2020 | MCD | FOOD | 200.31 | 19207.8 | 9752.101 | 4730.5 |
| ## 83 | 2019 | PYPL | FinTech | 127.01 | 17772.0 | 7987.000 | 2459.0 |
| ## 84 | 2021 | NVDA | ELEC | 735.86 | 16675.0 | 10396.000 | 4332.0 |
| ## 85 | 2019 | NVDA | ELEC | 144.00 | 11716.0 | 7171.000 | 4141.0 |
| ## 86 | 2020 | NVDA | ELEC | 323.24 | 10918.0 | 6768.000 | 2796.0 |
| ## 87 | 2017 | NVDA | ELEC | 117.26 | 6910.0 | 4063.000 | 1666.0 |
| ## | Earning.Per.Share | | | EBITDA | Share.Holder.Equity | Cash.Flow.from.Operating | |
| ## 1 | | -0.2700 | 54169.000 | 146043.0 | | 46752.0 | |
| ## 2 | | 3.2400 | 59312.000 | 138245.0 | | 46327.0 | |
| ## 3 | | 6.1100 | 130541.000 | 50672.0 | | 122151.0 | |
| ## 4 | | 2.0900 | 48079.000 | 93404.0 | | 66064.0 | |
| ## 5 | | 5.6100 | 120233.000 | 63090.0 | | 104038.0 | |
| ## 6 | | 4.5600 | 90770.000 | 256144.0 | | 91495.0 | |
| ## 7 | | 1.1505 | 36330.000 | 62060.0 | | 38514.0 | |
| ## 8 | | 3.2800 | 77344.000 | 65339.0 | | 80674.0 | |
| ## 9 | | 2.9800 | 81801.000 | 107147.0 | | 77434.0 | |
| ## 10 | | 2.9700 | 76477.000 | 90488.0 | | 69391.0 | |
| ## 11 | | 5.6100 | 91155.000 | 251635.0 | | 91652.0 | |
| ## 12 | | 2.3050 | 82487.000 | 119355.0 | | 81266.0 | |
| ## 13 | | 1.0070 | 27762.000 | 43549.0 | | 30723.0 | |
| ## 14 | | 2.3025 | 71501.000 | 134047.0 | | 64225.0 | |
| ## 15 | | 2.0775 | 70529.000 | 128249.0 | | 66231.0 | |
| ## 16 | | 9.6800 | 102384.000 | 206223.0 | | 87582.0 | |
| ## 17 | | 9.6500 | 97843.000 | 166542.0 | | 89035.0 | |
| ## 18 | | 1.6125 | 60449.000 | 111547.0 | | 59713.0 | |
| ## 19 | | 2.9300 | 54921.000 | 222544.0 | | 65124.0 | |
| ## 20 | | 0.3075 | 15584.000 | 27709.0 | | 18365.0 | |
| ## 21 | | 1.4200 | 55756.000 | 123549.0 | | 53666.0 | |
| ## 22 | | 8.0500 | 81602.000 | 141988.0 | | 76740.0 | |
| ## 23 | | 2.4580 | 46012.000 | 201442.0 | | 54520.0 | |
| ## 24 | | 1.5775 | 58518.000 | 118210.0 | | 50856.0 | |
| ## 25 | | 5.7600 | 65755.000 | 118304.0 | | 60675.0 | |
| ## 26 | | 2.1850 | 36559.000 | 177628.0 | | 47971.0 | |
| ## 27 | | 0.2450 | 12302.000 | 19285.0 | | 17203.0 | |
| ## 28 | | 5.0600 | 54641.000 | 102330.0 | | 52185.0 | |
| ## 29 | | 0.9000 | 33093.000 | 152502.0 | | 37091.0 | |
| ## 30 | | 2.1300 | 45319.000 | 82718.0 | | 43884.0 | |
| ## 31 | | 0.9886 | 35604.000 | 76615.0 | | 37529.0 | |
| ## 32 | | 0.0625 | 8514.000 | 13384.0 | | 12039.0 | |
| ## 33 | | 3.2500 | 37803.000 | 87711.0 | | 39507.0 | |
| ## 34 | | 1.4800 | 31616.000 | 80083.0 | | 29668.0 | |
| ## 35 | | 2.5600 | 33330.000 | 71997.0 | | 33325.0 | |
| ## 36 | | 1.3925 | 29860.000 | 139036.0 | | 36036.0 | |
| ## 37 | | -0.0260 | 4924.000 | 10741.0 | | 6842.0 | |
| ## 38 | | 2.6300 | 32971.000 | 89784.0 | | 32502.0 | |
| ## 39 | | 4.8600 | 31248.000 | 95391.0 | | 29456.0 | |
| ## 40 | | 4.9400 | 35917.000 | 81038.0 | | 35864.0 | |
| ## 41 | | 2.5800 | 30519.000 | 78944.0 | | 28833.0 | |
| ## 42 | | 1.1420 | 24423.000 | 120331.0 | | 26572.0 | |
| ## 43 | | 0.0295 | 3998.000 | 9746.0 | | 5475.0 | |
| ## 44 | | 2.0000 | 30923.000 | 66363.0 | | 31626.0 | |
| ## 45 | | 4.7100 | 32861.000 | 77504.0 | | 33145.0 | |
| ## 46 | | 4.4800 | 32401.000 | 74563.0 | | 29432.0 | |

| | | | | |
|-------|--------------------------|-----------|-------------------------------------|---------------|
| ## 47 | 2.6900 | 29927.000 | 57083.0 | 26994.0 |
| ## 48 | 1.0285 | 21475.000 | 103860.0 | 23024.0 |
| ## 49 | 0.5411 | 19412.000 | 47791.0 | 18595.0 |
| ## 50 | 1.9400 | 15369.000 | 103286.0 | 15433.0 |
| ## 51 | 1.9900 | 26179.000 | 69019.0 | 22110.0 |
| ## 52 | 2.1000 | 26771.000 | 46175.0 | 24073.0 |
| ## 53 | -0.0045 | 2835.000 | 8192.0 | 4180.0 |
| ## 54 | 2.1200 | 20923.000 | 66226.0 | 21808.0 |
| ## 55 | 1.6200 | 22925.000 | 39558.0 | 19037.0 |
| ## 56 | 2.3100 | 23896.000 | 55865.0 | 20418.0 |
| ## 57 | 0.9395 | 19342.000 | 87309.0 | 18659.0 |
| ## 58 | 2.3300 | 22713.000 | 61085.0 | 19018.0 |
| ## 59 | 2.3900 | 23541.000 | 45911.0 | 20963.0 |
| ## 60 | 2.1300 | 22160.000 | 51203.0 | 18884.0 |
| ## 61 | 1.8900 | 20323.000 | 58256.0 | 20776.0 |
| ## 62 | 0.8080 | 16796.000 | 71715.0 | 16619.0 |
| ## 63 | 2.0100 | 20226.000 | 49430.0 | 16692.0 |
| ## 64 | 0.3243 | 12474.000 | 31640.0 | 10159.0 |
| ## 65 | 0.7440 | 13593.000 | 58145.0 | 14565.0 |
| ## 66 | 0.7700 | 10763.000 | 41704.0 | 11170.0 |
| ## 67 | 0.6578 | 11777.000 | 46241.0 | 11081.0 |
| ## 68 | 4.8200 | 9593.701 | 12853.4 | 6730.3 |
| ## 69 | 1.7400 | 5768.000 | 22101.0 | 5641.0 |
| ## 70 | 3.8500 | 11215.000 | 26612.0 | 9108.0 |
| ## 71 | 4.8000 | 8701.200 | 7087.9 | 6539.1 |
| ## 72 | 3.5200 | 5527.000 | 21727.0 | 5797.0 |
| ## 73 | 5.4400 | 9261.002 | -2204.3 | 6059.6 |
| ## 74 | 4.5800 | 8749.300 | 14634.2 | 6341.6 |
| ## 75 | 0.5103 | 9836.000 | 36004.0 | 9316.0 |
| ## 76 | 10.0400 | 12224.100 | -4601.0 | 9141.5 |
| ## 77 | 8.3300 | 11241.600 | -6003.4 | 7386.7 |
| ## 78 | 6.3700 | 10916.100 | -3268.0 | 5551.2 |
| ## 79 | 3.5400 | 4478.000 | 20063.0 | 6219.0 |
| ## 80 | 7.8800 | 10687.700 | -8210.3 | 8122.1 |
| ## 81 | 7.5400 | 10304.600 | -6258.4 | 6966.7 |
| ## 82 | 6.3100 | 9075.400 | -7824.9 | 6265.2 |
| ## 83 | 2.0700 | 3631.000 | 16929.0 | 4071.0 |
| ## 84 | 1.7300 | 5630.000 | 16893.0 | 5822.0 |
| ## 85 | 1.6575 | 4066.000 | 9342.0 | 3743.0 |
| ## 86 | 1.1300 | 3227.000 | 12204.0 | 4761.0 |
| ## 87 | 0.6425 | 2121.000 | 5762.0 | 1672.0 |
| ## | Cash.Flow.from.Investing | | Cash.Flow.from.Financial.Activities | Current.Ratio |
| ## 1 | | -37601.0 | 9718.0 | 0.9446 |
| ## 2 | | -58154.0 | 6291.0 | 1.1358 |
| ## 3 | | -22354.0 | -110749.0 | 0.8794 |
| ## 4 | | -59611.0 | -1104.0 | 1.0502 |
| ## 5 | | -14545.0 | -93353.0 | 1.0746 |
| ## 6 | | -20298.0 | -69757.0 | 2.3780 |
| ## 7 | | -24281.0 | -10066.0 | 1.0970 |
| ## 8 | | -4289.0 | -86820.0 | 1.3636 |
| ## 9 | | 16066.0 | -87876.0 | 1.1329 |
| ## 10 | | 45896.0 | -90976.0 | 1.5401 |
| ## 11 | | -35523.0 | -61362.0 | 2.9281 |
| ## 12 | | -56274.0 | -17716.0 | 1.1088 |

| | | | |
|-------|----------|----------|--------|
| ## 13 | -12369.0 | -7686.0 | 1.0981 |
| ## 14 | -46446.0 | -17974.0 | 1.2761 |
| ## 15 | -45977.0 | -20890.0 | 1.3527 |
| ## 16 | -22680.0 | -43935.0 | 1.7692 |
| ## 17 | -30311.0 | -58876.0 | 1.7846 |
| ## 18 | -22579.0 | -37549.0 | 1.0801 |
| ## 19 | -32773.0 | -24408.0 | 3.0668 |
| ## 20 | -27084.0 | 9928.0 | 1.0400 |
| ## 21 | -33774.0 | -16379.0 | 1.6786 |
| ## 22 | -27577.0 | -48486.0 | 2.0800 |
| ## 23 | -29491.0 | -23209.0 | 3.3741 |
| ## 24 | -48227.0 | -1698.0 | 1.4958 |
| ## 25 | -12223.0 | -46031.0 | 2.5158 |
| ## 26 | -28504.0 | -13179.0 | 3.9190 |
| ## 27 | -9516.0 | -3716.0 | 1.0448 |
| ## 28 | -15773.0 | -36887.0 | 2.5288 |
| ## 29 | -31401.0 | -8298.0 | 5.1403 |
| ## 30 | -6061.0 | -33590.0 | 2.9008 |
| ## 31 | -40419.0 | 1444.0 | 1.6084 |
| ## 32 | -6450.0 | -3882.0 | 1.0536 |
| ## 33 | -46781.0 | 8408.0 | 2.9186 |
| ## 34 | -23001.0 | -9668.0 | 2.4734 |
| ## 35 | -23950.0 | -8393.0 | 2.3529 |
| ## 36 | -31165.0 | -8332.0 | 6.2908 |
| ## 37 | -5065.0 | 4432.0 | 1.1153 |
| ## 38 | -18833.0 | -8665.0 | 2.5040 |
| ## 39 | -24449.0 | -6045.0 | 2.1323 |
| ## 40 | -21524.0 | -12669.0 | 1.9087 |
| ## 41 | -23811.0 | -8148.0 | 2.7118 |
| ## 42 | -23711.0 | -4225.0 | 4.6667 |
| ## 43 | -4276.0 | -539.0 | 1.0716 |
| ## 44 | -24786.0 | -9408.0 | 2.6029 |
| ## 45 | -14405.0 | -17565.0 | 1.4002 |
| ## 46 | -11239.0 | -18607.0 | 1.7314 |
| ## 47 | -14616.0 | -8376.0 | 2.6037 |
| ## 48 | -21055.0 | -2087.0 | 4.6878 |
| ## 49 | -13854.0 | 1257.0 | 2.0113 |
| ## 50 | -10477.0 | 1361.0 | 1.5676 |
| ## 51 | -15762.0 | -8475.0 | 1.6934 |
| ## 52 | -11314.0 | -13291.0 | 2.1293 |
| ## 53 | -3595.0 | 2259.0 | 1.1207 |
| ## 54 | -25817.0 | -5739.0 | 1.7490 |
| ## 55 | -15770.0 | -7463.0 | 1.8229 |
| ## 56 | -9905.0 | -13611.0 | 1.7319 |
| ## 57 | -13679.0 | -857.0 | 4.5817 |
| ## 58 | -8183.0 | 1912.0 | 2.4492 |
| ## 59 | -10301.0 | -11100.0 | 2.1510 |
| ## 60 | -14060.0 | -1408.0 | 2.4312 |
| ## 61 | -18073.0 | -5498.0 | 2.3647 |
| ## 62 | -13056.0 | 1229.0 | 4.2166 |
| ## 63 | -10539.0 | -4642.0 | 3.3892 |
| ## 64 | -17434.0 | 663.0 | 2.7425 |
| ## 65 | -19041.0 | 807.0 | 5.9192 |
| ## 66 | -7965.0 | -2568.0 | 2.7871 |

| | | | | | | |
|-------|-------------------|----------|---------|---------|-------------------|---------|
| ## 67 | | -10680.0 | | | 3050.0 | 4.1579 |
| ## 68 | | -2304.9 | | | -4618.3 | 1.5232 |
| ## 69 | | 7375.0 | | | -11617.0 | 3.5156 |
| ## 70 | | -9830.0 | | | 1865.0 | 6.6503 |
| ## 71 | | -1420.0 | | | 735.3 | 3.2684 |
| ## 72 | | -5149.0 | | | -557.0 | 1.2218 |
| ## 73 | | -981.6 | | | -11262.4 | 1.3980 |
| ## 74 | | -2056.0 | | | -3728.7 | 1.4937 |
| ## 75 | | -8019.0 | | | 233.0 | 10.6178 |
| ## 76 | | -2165.7 | | | -5595.6 | 1.7782 |
| ## 77 | | -2678.1 | | | -6580.2 | 1.4266 |
| ## 78 | | 562.0 | | | -5310.8 | 1.8429 |
| ## 79 | | -16545.0 | | | 12454.0 | 1.3264 |
| ## 80 | | -3071.1 | | | -4994.8 | 0.9826 |
| ## 81 | | -2455.1 | | | -5949.6 | 1.3631 |
| ## 82 | | -1545.8 | | | -2249.0 | 1.0100 |
| ## 83 | | -5742.0 | | | 4187.0 | 1.4300 |
| ## 84 | | -19675.0 | | | 3804.0 | 4.0904 |
| ## 85 | | -4097.0 | | | -2866.0 | 7.9436 |
| ## 86 | | 6145.0 | | | -792.0 | 7.6738 |
| ## 87 | | -793.0 | | | 291.0 | 4.7740 |
| ## | Debt.Equity.Ratio | ROE | ROA | ROI | Net.Profit.Margin | |
| ## 1 | 0.4598 | -1.8638 | -0.5883 | -1.2768 | -0.5296 | |
| ## 2 | 0.3526 | 24.1340 | 7.9334 | 17.8428 | 7.1014 | |
| ## 3 | 2.3695 | 196.9589 | 28.2924 | 66.6994 | 25.3096 | |
| ## 4 | 0.3406 | 22.8374 | 6.6411 | 17.0348 | 5.5252 | |
| ## 5 | 1.9768 | 150.0713 | 26.9742 | 54.9839 | 25.8818 | |
| ## 6 | 0.0574 | 23.4134 | 16.4188 | 22.1426 | 21.2038 | |
| ## 7 | 0.3773 | 18.6723 | 5.1446 | 13.5573 | 4.1309 | |
| ## 8 | 1.7208 | 87.8664 | 17.7256 | 35.0054 | 20.9136 | |
| ## 9 | 1.0685 | 55.5601 | 16.2775 | 29.6348 | 22.4142 | |
| ## 10 | 1.1940 | 61.0645 | 16.3230 | 30.3113 | 21.2381 | |
| ## 11 | 0.0589 | 30.2156 | 21.1633 | 28.5354 | 29.5117 | |
| ## 12 | 0.5390 | 44.7355 | 18.3899 | 30.9201 | 22.8458 | |
| ## 13 | 0.5395 | 23.1303 | 6.1931 | 15.0245 | 4.3253 | |
| ## 14 | 0.8630 | 36.0702 | 12.8826 | 20.9082 | 21.0924 | |
| ## 15 | 0.6786 | 35.6237 | 14.2024 | 22.4312 | 21.1868 | |
| ## 16 | 0.2291 | 35.0887 | 17.5644 | 29.1528 | 34.1462 | |
| ## 17 | 0.2989 | 43.6755 | 19.9370 | 34.0575 | 36.6863 | |
| ## 18 | 0.3164 | 35.4201 | 17.0420 | 28.1142 | 21.6144 | |
| ## 19 | 0.0626 | 18.0949 | 12.5992 | 17.0288 | 22.0619 | |
| ## 20 | 0.8930 | 10.9459 | 2.3098 | 5.7824 | 1.7052 | |
| ## 21 | 0.1373 | 29.9776 | 17.8923 | 26.3592 | 21.6705 | |
| ## 22 | 0.4095 | 43.1522 | 18.3568 | 31.9017 | 36.4517 | |
| ## 23 | 0.0226 | 17.0486 | 12.4472 | 16.6717 | 21.2181 | |
| ## 24 | 0.0000 | 35.3041 | 23.7033 | 35.3041 | 26.6651 | |
| ## 25 | 0.5353 | 37.4298 | 14.6961 | 24.8935 | 30.9625 | |
| ## 26 | 0.0226 | 17.3036 | 13.2032 | 16.9214 | 22.4647 | |
| ## 27 | 0.3990 | 12.2945 | 2.8429 | 8.7883 | 1.7435 | |
| ## 28 | 0.7053 | 38.3465 | 13.6937 | 23.2200 | 31.1817 | |
| ## 29 | 0.0260 | 8.3028 | 6.4178 | 8.0922 | 11.4221 | |
| ## 30 | 0.9217 | 20.0331 | 6.4018 | 10.6937 | 15.0154 | |
| ## 31 | 0.0000 | 33.8341 | 22.2753 | 33.8341 | 23.9466 | |
| ## 32 | 0.6147 | 4.4531 | 0.9205 | 2.7579 | 0.5570 | |

| | | | | | |
|-------|----------|-----------|---------|---------|---------|
| ## 33 | 0.9827 | 29.0602 | 10.1829 | 15.5626 | 26.3941 |
| ## 34 | 0.4407 | 15.2255 | 6.9885 | 11.3012 | 13.0295 |
| ## 35 | 0.7425 | 28.5276 | 10.6162 | 18.2481 | 22.5322 |
| ## 36 | 0.0283 | 14.0093 | 11.6289 | 13.6237 | 21.5770 |
| ## 37 | 0.7695 | -2.2437 | -0.4422 | -1.2680 | -0.2708 |
| ## 38 | 0.2522 | 24.5857 | 12.8051 | 19.9893 | 25.4212 |
| ## 39 | 0.3994 | 20.8280 | 11.7977 | 15.4134 | 25.1417 |
| ## 40 | 0.4492 | 25.7891 | 13.6514 | 18.1833 | 26.8394 |
| ## 41 | 0.1976 | 27.6943 | 15.3499 | 23.8822 | 28.0839 |
| ## 42 | 0.0434 | 13.5859 | 11.0863 | 13.3643 | 21.1044 |
| ## 43 | 0.3274 | 2.8114 | 0.6823 | 2.1180 | 0.3680 |
| ## 44 | 0.1800 | 25.5835 | 14.0001 | 22.0276 | 23.0295 |
| ## 45 | 0.3742 | 27.1573 | 15.4171 | 20.4723 | 29.2476 |
| ## 46 | 0.3535 | 28.2352 | 16.4524 | 21.1246 | 29.7157 |
| ## 47 | 0.2088 | 40.5550 | 21.2964 | 33.5488 | 33.0984 |
| ## 48 | 0.0504 | 13.1138 | 10.5429 | 12.7185 | 21.4179 |
| ## 49 | 0.0000 | 29.3214 | 18.6385 | 29.3214 | 21.4841 |
| ## 50 | 0.4071 | 7.7619 | 4.4025 | 5.6870 | 12.7097 |
| ## 51 | 0.3885 | 13.9107 | 7.7899 | 10.2078 | 15.2977 |
| ## 52 | 0.1286 | 40.6280 | 21.7853 | 36.7023 | 30.0237 |
| ## 53 | 0.3765 | -0.4761 | -0.1198 | -0.3459 | -0.0638 |
| ## 54 | 0.3818 | 15.5770 | 9.1029 | 11.8745 | 17.3708 |
| ## 55 | 0.1453 | 36.8295 | 18.7051 | 33.6435 | 24.9311 |
| ## 56 | 0.2444 | 20.9505 | 12.7356 | 17.2310 | 20.9486 |
| ## 57 | 0.0601 | 15.0729 | 11.8644 | 14.6965 | 22.9345 |
| ## 58 | 0.3711 | 18.6953 | 11.2558 | 14.0777 | 20.6305 |
| ## 59 | 0.1597 | 28.1893 | 18.1977 | 24.4212 | 23.9671 |
| ## 60 | 0.2626 | 21.4929 | 13.0467 | 17.1047 | 20.6314 |
| ## 61 | 0.2308 | 16.5133 | 10.4160 | 13.4694 | 18.2515 |
| ## 62 | 0.0772 | 16.1096 | 12.3169 | 15.4652 | 23.3215 |
| ## 63 | 0.0428 | 23.1924 | 18.1433 | 22.2572 | 26.2797 |
| ## 64 | 0.0000 | 26.0272 | 17.3365 | 26.0272 | 19.1936 |
| ## 65 | 0.0723 | 16.7461 | 13.4167 | 15.9281 | 25.6879 |
| ## 66 | 0.0533 | 10.4762 | 8.2286 | 9.9856 | 12.4377 |
| ## 67 | 0.0749 | 18.3928 | 14.7016 | 18.3928 | 29.0065 |
| ## 68 | 1.1620 | 37.0159 | 13.9006 | 17.1211 | 17.3381 |
| ## 69 | 0.4956 | 19.7638 | 10.6066 | 13.7341 | 16.1934 |
| ## 70 | 0.4113 | 36.6451 | 22.0698 | 25.9652 | 36.2339 |
| ## 71 | 3.4033 | 63.9019 | 11.9385 | 14.5123 | 17.8228 |
| ## 72 | 0.3705 | 19.1881 | 5.4998 | 14.0012 | 16.4322 |
| ## 73 | -11.7750 | -212.6069 | 15.1061 | 19.7958 | 19.0339 |
| ## 74 | 0.7862 | 33.7996 | 15.4692 | 18.9287 | 20.5457 |
| ## 75 | 0.0000 | 18.1091 | 16.1000 | 18.1091 | 27.5675 |
| ## 76 | -7.7424 | -163.9903 | 14.0104 | 24.3223 | 32.4903 |
| ## 77 | -5.9805 | -102.8983 | 12.2481 | 20.6601 | 26.6467 |
| ## 78 | -9.0381 | -158.8832 | 15.3602 | 19.7663 | 22.7529 |
| ## 79 | 0.4455 | 20.9440 | 5.9705 | 14.4887 | 19.5861 |
| ## 80 | -4.1627 | -73.3883 | 12.6822 | 23.2571 | 28.2030 |
| ## 81 | -4.9654 | -94.6616 | 18.0557 | 23.8720 | 27.8687 |
| ## 82 | -4.7848 | -60.4545 | 8.9888 | 17.2823 | 24.6280 |
| ## 83 | 0.2933 | 14.5254 | 4.7903 | 11.2314 | 13.8364 |
| ## 84 | 0.4122 | 25.6438 | 15.0464 | 18.9526 | 25.9790 |
| ## 85 | 0.2128 | 44.3267 | 31.1541 | 36.5490 | 35.3448 |
| ## 86 | 0.1631 | 22.9105 | 16.1479 | 19.6971 | 25.6091 |

| | | | | | |
|-------|--------------------------|---------------------------|---------------------|---------|---------|
| ## 87 | 0.4877 | 28.9136 | 16.9292 | 21.4249 | 24.1100 |
| ## | Free.Cash.Flow.per.Share | Return.on.Tangible.Equity | Number.of.Employees | | |
| ## 1 | -0.2546 | -2.1645 | 1541000 | | |
| ## 2 | -3.9226 | 27.1530 | 1608000 | | |
| ## 3 | 1.3146 | 196.9589 | 164000 | | |
| ## 4 | 0.4798 | 27.2124 | 1298000 | | |
| ## 5 | 1.3261 | 150.0713 | 154000 | | |
| ## 6 | -0.3613 | 26.6424 | 190234 | | |
| ## 7 | 0.6220 | 24.4958 | 798000 | | |
| ## 8 | 1.0183 | 87.8664 | 147000 | | |
| ## 9 | 0.7414 | 55.5601 | 132000 | | |
| ## 10 | -0.0388 | 61.0645 | 137000 | | |
| ## 11 | 1.7123 | 33.4561 | 156500 | | |
| ## 12 | 0.9743 | 48.3878 | 110000 | | |
| ## 13 | 1.0975 | 34.7333 | 647500 | | |
| ## 14 | 0.0330 | 36.0702 | 123000 | | |
| ## 15 | -0.5901 | 38.1906 | 116000 | | |
| ## 16 | -0.6808 | 56.1064 | 221000 | | |
| ## 17 | 1.2643 | 82.9207 | 221000 | | |
| ## 18 | 0.3032 | 38.4380 | 97000 | | |
| ## 19 | 0.8430 | 20.1422 | 135301 | | |
| ## 20 | -0.2387 | 21.1226 | 566000 | | |
| ## 21 | 0.1363 | 31.4425 | 84400 | | |
| ## 22 | 1.4887 | 72.5298 | 181000 | | |
| ## 23 | 0.5566 | 19.2033 | 118899 | | |
| ## 24 | 0.3394 | 36.9806 | 76100 | | |
| ## 25 | 0.9526 | 65.2006 | 163000 | | |
| ## 26 | -0.0705 | 19.5124 | 98771 | | |
| ## 27 | 0.3003 | 15.2958 | 341400 | | |
| ## 28 | 0.7968 | 74.6661 | 144000 | | |
| ## 29 | -0.1510 | 9.5158 | 80110 | | |
| ## 30 | 0.1317 | 42.5094 | 131000 | | |
| ## 31 | 0.6278 | 35.9115 | 63300 | | |
| ## 32 | 0.5700 | 6.1922 | 230800 | | |
| ## 33 | 0.8887 | 59.9981 | 124000 | | |
| ## 34 | -0.3425 | 20.9110 | 118000 | | |
| ## 35 | 0.2435 | 40.7585 | 114000 | | |
| ## 36 | 0.6249 | 16.3323 | 72053 | | |
| ## 37 | -0.0075 | -3.2471 | 154100 | | |
| ## 38 | 0.3152 | 35.2192 | 128000 | | |
| ## 39 | -2.8278 | 32.4864 | 121100 | | |
| ## 40 | 1.2739 | 46.4000 | 110600 | | |
| ## 41 | -0.5456 | 35.7204 | 118000 | | |
| ## 42 | 0.3054 | 16.2481 | 61814 | | |
| ## 43 | 0.1748 | 3.8641 | 117300 | | |
| ## 44 | 0.5798 | 34.1328 | 128000 | | |
| ## 45 | 0.7539 | 52.0977 | 110800 | | |
| ## 46 | 0.8946 | 55.0924 | 107400 | | |
| ## 47 | 0.3921 | 52.9046 | 99000 | | |
| ## 48 | 0.0463 | 16.2814 | 53600 | | |
| ## 49 | 0.2857 | 30.0013 | 49400 | | |
| ## 50 | -4.5640 | 11.5060 | 131900 | | |
| ## 51 | -0.3622 | 30.1113 | 102700 | | |
| ## 52 | 0.7057 | 57.5054 | 94000 | | |

| | | | |
|-------|-----------------------|-----------|--------|
| ## 53 | -0.1833 | -0.6915 | 88400 |
| ## 54 | 0.1101 | 24.1972 | 106000 |
| ## 55 | 1.7695 | 57.5941 | 90000 |
| ## 56 | 0.0651 | 28.8574 | 106700 |
| ## 57 | -0.2373 | 18.8671 | 47756 |
| ## 58 | 0.3492 | 24.9236 | 107300 |
| ## 59 | -0.1314 | 42.5864 | 100100 |
| ## 60 | -0.3622 | 31.2128 | 105000 |
| ## 61 | 0.4520 | 22.5859 | 107600 |
| ## 62 | 0.1539 | 21.5120 | 53861 |
| ## 63 | 0.8374 | 26.0315 | 82500 |
| ## 64 | 0.3550 | 26.4052 | 36800 |
| ## 65 | 0.3039 | 19.7822 | 32467 |
| ## 66 | 1.1789 | 11.7185 | 79800 |
| ## 67 | -0.1195 | 21.8407 | 24400 |
| ## 68 | 0.0221 | 47.0227 | 420000 |
| ## 69 | -1.6890 | 27.2099 | 26196 |
| ## 70 | 1.3378 | 48.9460 | 22473 |
| ## 71 | 0.9354 | 99.0748 | 420000 |
| ## 72 | -0.4843 | 46.6279 | 30900 |
| ## 73 | -0.2100 | -103.2087 | 375000 |
| ## 74 | 0.4630 | 41.0546 | 400000 |
| ## 75 | 0.6657 | 21.4997 | 19835 |
| ## 76 | 3.3857 | -102.1900 | 200000 |
| ## 77 | -2.1323 | -69.3794 | 150000 |
| ## 78 | -0.2793 | -91.9365 | 235000 |
| ## 79 | 1.7623 | 42.5304 | 26500 |
| ## 80 | 2.1046 | -55.3414 | 205000 |
| ## 81 | 0.8436 | -68.9682 | 210000 |
| ## 82 | -1.4852 | -44.6358 | 200000 |
| ## 83 | -1.0251 | 24.7409 | 23200 |
| ## 84 | 0.1419 | 43.4809 | 18975 |
| ## 85 | 0.1057 | 47.7129 | 13277 |
| ## 86 | 0.4710 | 24.2351 | 13775 |
| ## 87 | 0.0975 | 33.0556 | 10299 |
| ## | Inflation.Rate.in.US. | | |
| ## 1 | 8.0028 | | |
| ## 2 | 4.6979 | | |
| ## 3 | 8.0028 | | |
| ## 4 | 1.2336 | | |
| ## 5 | 4.6979 | | |
| ## 6 | 8.0028 | | |
| ## 7 | 1.8122 | | |
| ## 8 | 1.2336 | | |
| ## 9 | 2.4426 | | |
| ## 10 | 1.8122 | | |
| ## 11 | 4.6979 | | |
| ## 12 | 0.1186 | | |
| ## 13 | 2.4426 | | |
| ## 14 | 2.1301 | | |
| ## 15 | 1.2616 | | |
| ## 16 | 3.7000 | | |
| ## 17 | 8.0028 | | |
| ## 18 | 1.6222 | | |

| | |
|-------|---------|
| ## 19 | 1.2336 |
| ## 20 | 2.1301 |
| ## 21 | 1.4648 |
| ## 22 | 4.6979 |
| ## 23 | 1.8122 |
| ## 24 | 2.0693 |
| ## 25 | 1.2336 |
| ## 26 | 2.4426 |
| ## 27 | 1.2616 |
| ## 28 | 1.8122 |
| ## 29 | 2.1301 |
| ## 30 | 2.4426 |
| ## 31 | 3.1568 |
| ## 32 | 0.1186 |
| ## 33 | 2.1301 |
| ## 34 | 0.1186 |
| ## 35 | 1.2616 |
| ## 36 | 1.2616 |
| ## 37 | 1.6222 |
| ## 38 | 1.6222 |
| ## 39 | 4.6979 |
| ## 40 | 1.2336 |
| ## 41 | 1.4648 |
| ## 42 | 0.1186 |
| ## 43 | 1.4648 |
| ## 44 | 2.0693 |
| ## 45 | 1.8122 |
| ## 46 | 2.4426 |
| ## 47 | 3.1568 |
| ## 48 | 1.6222 |
| ## 49 | 1.6400 |
| ## 50 | 8.0028 |
| ## 51 | 2.1301 |
| ## 52 | 1.6400 |
| ## 53 | 2.0693 |
| ## 54 | 1.2616 |
| ## 55 | -0.3555 |
| ## 56 | 1.6222 |
| ## 57 | 1.4648 |
| ## 58 | 0.1186 |
| ## 59 | 3.1568 |
| ## 60 | 2.0693 |
| ## 61 | 1.4648 |
| ## 62 | 2.0693 |
| ## 63 | 1.6400 |
| ## 64 | -0.3555 |
| ## 65 | 3.1568 |
| ## 66 | -0.3555 |
| ## 67 | 1.6400 |
| ## 68 | 1.6222 |
| ## 69 | 3.7000 |
| ## 70 | 8.0028 |
| ## 71 | 0.1186 |
| ## 72 | 4.6979 |

```
## 73          1.2616
## 74          1.6400
## 75         -0.3555
## 76          4.6979
## 77          8.0028
## 78          2.1301
## 79          1.2336
## 80          1.8122
## 81          2.4426
## 82          1.2336
## 83          1.8122
## 84          4.6979
## 85          1.8122
## 86          1.2336
## 87          2.1301
```

4. Group by Category and summarize the average revenue

```
summary_data <- arranged_data %>%
  group_by(Category) %>%
  summarise(Average_Revenue = mean(Revenue, na.rm = TRUE))
cat("Number of rows in summary data:", nrow(summary_data), "\n")
```

```
## Number of rows in summary data: 5
```

```
print("Summary Data:")
```

```
## [1] "Summary Data:"
```

```
print(summary_data)
```

```
## # A tibble: 5 x 2
##   Category Average_Revenue
##   <chr>          <dbl>
## 1 ELEC          46752.
## 2 FOOD          23261.
## 3 FinTech       21532.
## 4 IT           143951.
## 5 LOGI          229879.
```

5. Unique values

```
unique(data$Market.Cap.in.B.USD.)
```

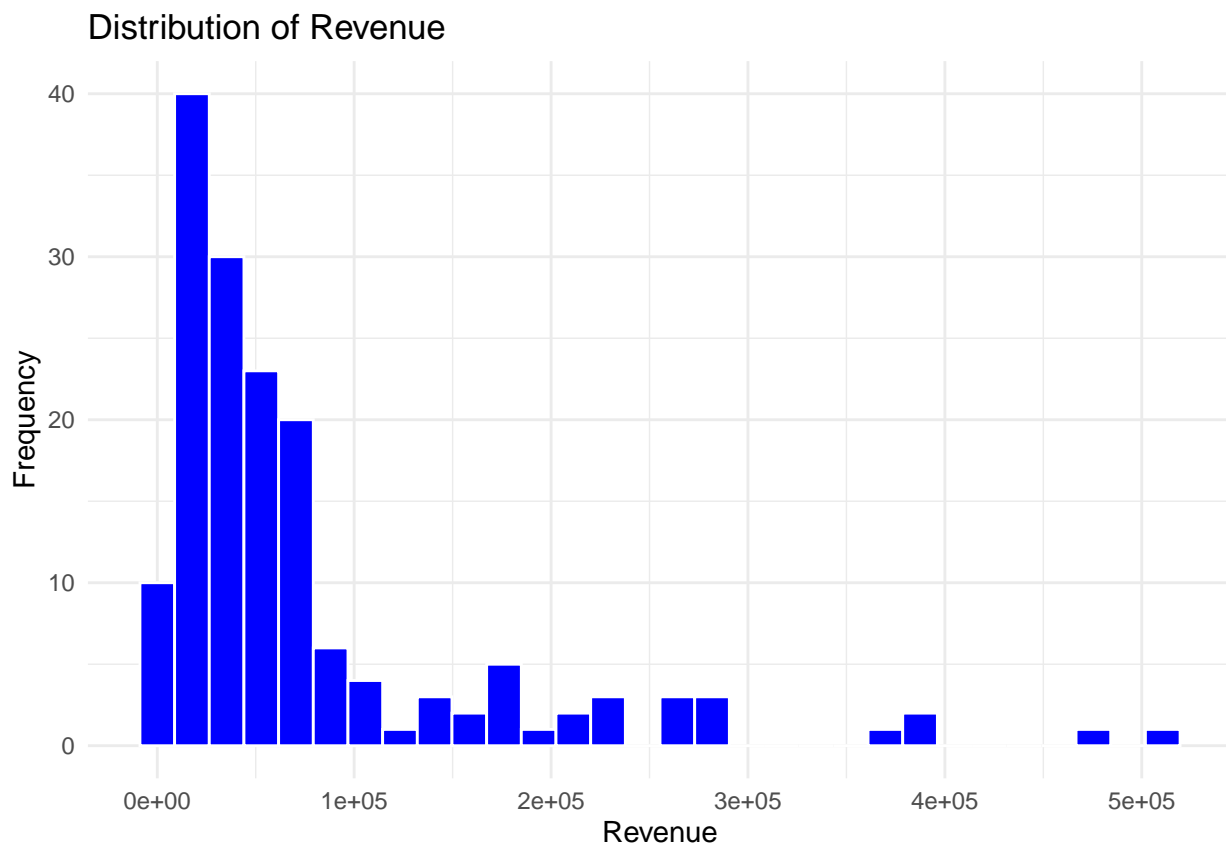
```
## [1] 2066.94 2913.28 2255.97 1304.76 748.54 868.87 617.59 586.86 647.36
## [10] 504.79 500.61 376.40 296.89 189.80 2451.23 1787.73 2525.08 1681.61
## [19] 1203.06 779.67 659.91 483.16 443.17 382.88 312.30 224.80 218.38
## [28] 238.78 270.64 1144.35 1910.26 1179.40 917.82 719.63 726.47 530.84
## [37] 521.67 354.75 371.53 230.54 207.65 188.54 195.27 81.19 221.57
## [46] 274.41 127.01 99.09 88.48 47.63 44.23 NA 46.99 47.21
## [55] 32.62 44.65 34.86 53.56 67.08 76.66 78.41 75.16 52.11
## [64] 44.06 7.79 4.04 41.28 32.20 24.10 24.73 5.75 12.32
## [73] 23.06 30.73 26.09 25.29 18.10 17.14 16.73 18.76 0.04
## [82] 0.37 1.11 2.19 3.51 4.90 4.47 3.39 8.22 8.98
```

```
## [91] 186.39 193.02 200.31 159.89 148.82 136.89 137.21 101.08 108.48
## [100] 91.19 96.55 88.56 102.66 81.10 32.53 43.60 34.66 40.78
## [109] 31.68 45.79 46.21 53.45 60.47 55.49 52.82 33.47 47.13
## [118] 36.84 1000.35 359.50 735.86 323.24 144.00 81.44 117.26 57.53
## [127] 17.73 10.90 9.11 7.66 8.46 8.95 10.37 109.08 209.45
## [136] 104.16 260.35 214.19 216.03 171.88 162.57 175.46 129.02 102.61
## [145] 123.48 117.31 112.65 856.94 1691.00 1634.16 916.15 734.42 563.54
## [154] 356.31 316.83 143.70 182.54 113.63 78.72 80.79 58.24
```

DATA VISUALISATION IN R

1. Histogram: Distribution of Revenue

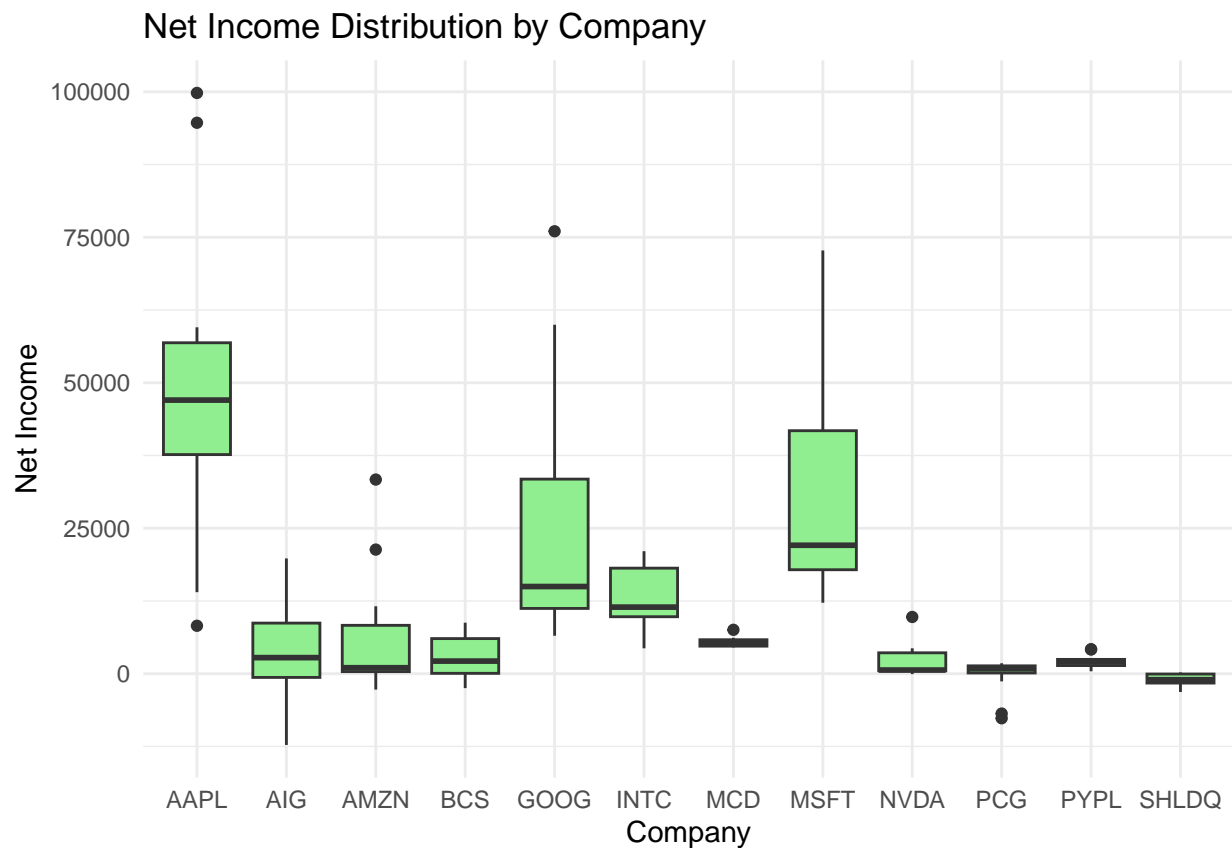
```
ggplot(data, aes(x = Revenue)) +
  geom_histogram(bins = 30, fill = "blue", color = "white") +
  labs(title = "Distribution of Revenue",
       x = "Revenue",
       y = "Frequency") +
  theme_minimal()
```



2. Box Plot: Net Income by Company

```
ggplot(data, aes(x = Company, y = Net.Income)) +
  geom_boxplot(fill = "lightgreen") +
  labs(title = "Net Income Distribution by Company",
```

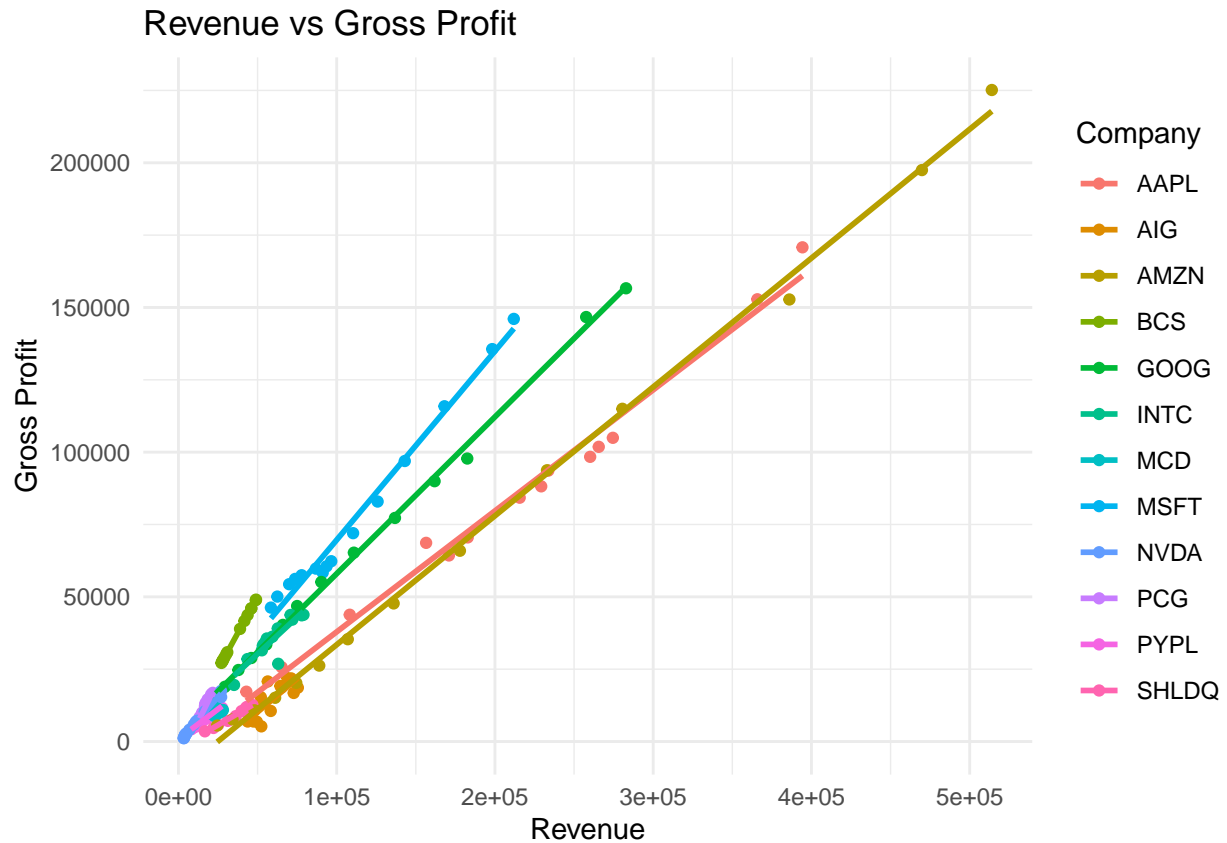
```
x = "Company",
y = "Net Income" +
theme(axis.text.x = element_text(angle = 45, hjust = 1)) +
theme_minimal()
```



3. Scatter Plot: Revenue vs. Gross Profit

```
ggplot(data, aes(x = Revenue, y = Gross.Profit, color = Company)) +
  geom_point() +
  geom_smooth(method = "lm", se = FALSE) +
  labs(title = "Revenue vs Gross Profit",
       x = "Revenue",
       y = "Gross Profit") +
  theme_minimal()
```

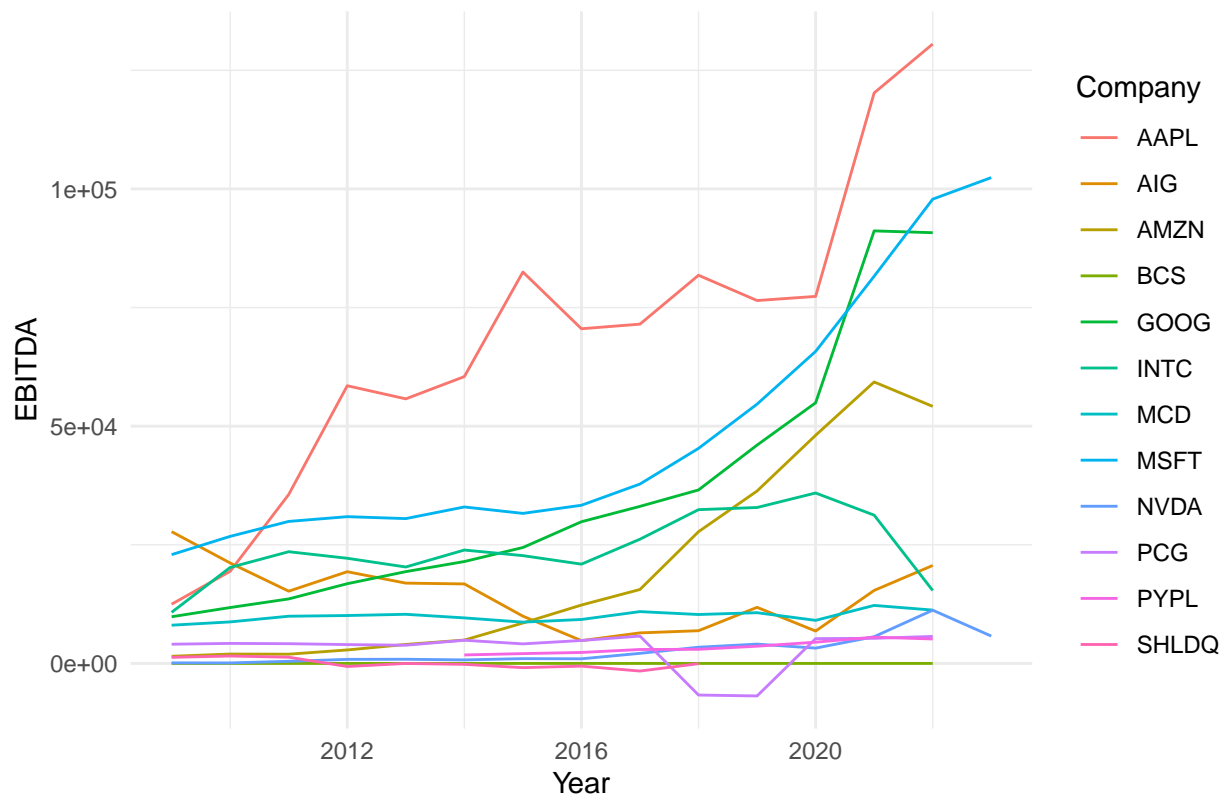
```
## `geom_smooth()` using formula = 'y ~ x'
```



4. Line Plot: EBITDA Over the Years

```
ggplot(data, aes(x = Year, y = EBITDA, color = Company)) +
  geom_line() +
  labs(title = "EBITDA Over the Years",
       x = "Year",
       y = "EBITDA") +
  theme_minimal()
```

EBITDA Over the Years



5. Bar Plot: Average Earnings Per Share by Company

```
avg_eps <- data %>%
  group_by(Company) %>%
  summarize(Average_EPS = mean(Earning.Per.Share, na.rm = TRUE))

ggplot(avg_eps, aes(x = reorder(Company, -Average_EPS), y = Average_EPS)) +
  geom_bar(stat = "identity", fill = "orange") +
  labs(title = "Average Earnings Per Share by Company",
       x = "Company",
       y = "Average Earnings Per Share") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

