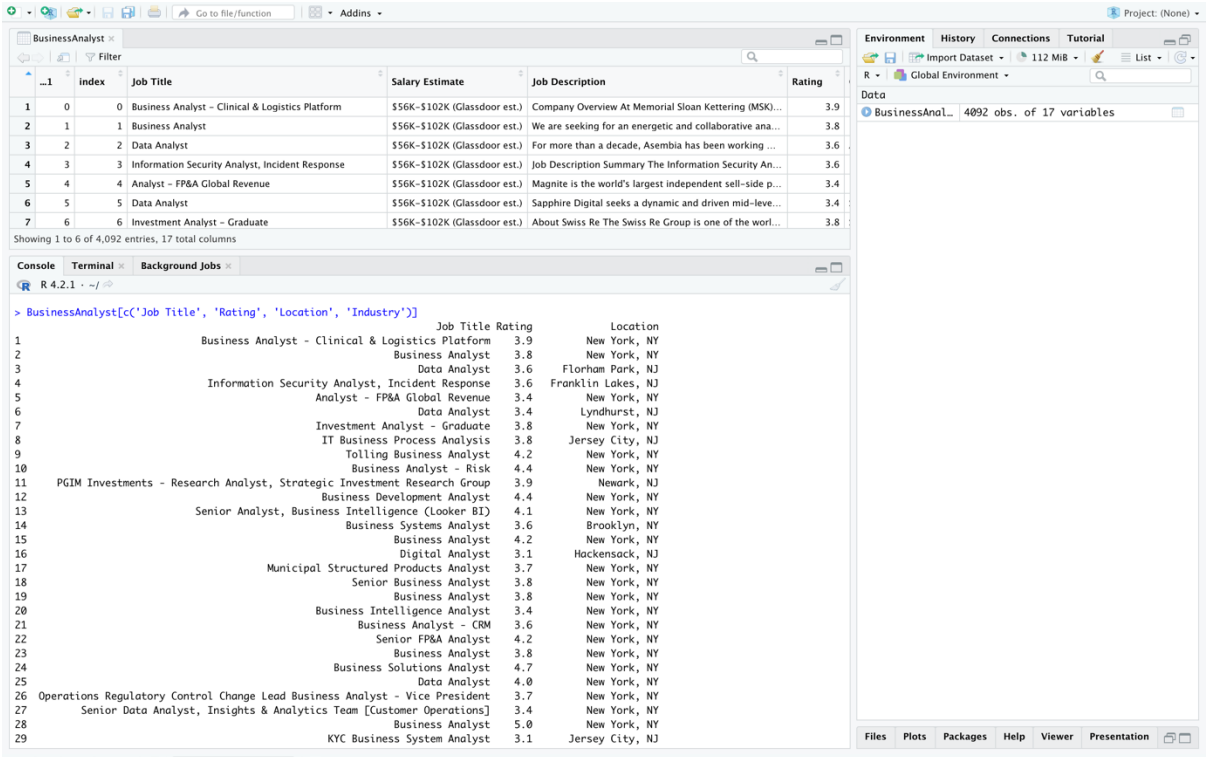
By Gerard Utoware

Overview:
R was chosen due to the ability to analyse, clean and present data all in one platform. It is commonly used throughout research, and it allows ideas and data to be easily understood regardless of data literacy. R also allowed data from excel to be transferred to it which meant there was no hassle and no loss of data while being transferred. If python were to be used for example, it would take several more steps to transfer data, which could lead to lost data.

Based on the data gathered and analysed, the consulting industry appears to be the most fruitful and well rated out of the companies in the dataset. Companies from the consulting industry generally tended to have ratings closer to 5 compared to companies from finance, accounting, or energy.
Zurich, a city well known and established due to its financial relevance, has not had any new companies build their headquarters in its city in over 150 years. This may be part of a larger shift away from Zurich and its relevance in finance. On the other hand, it may be an untapped area to explore for new headquarters for companies.
Woodridge and Chicago, both found in Illinois, are both crucial to different sectors in this dataset. Entering this dataset, this was unexpected as there are several larger cities in the USA that are in larger markets which would have influenced ratings. Woodridge is very dominant in the IT Services sector and has a large market share of said sector.

By Gerard Utoware

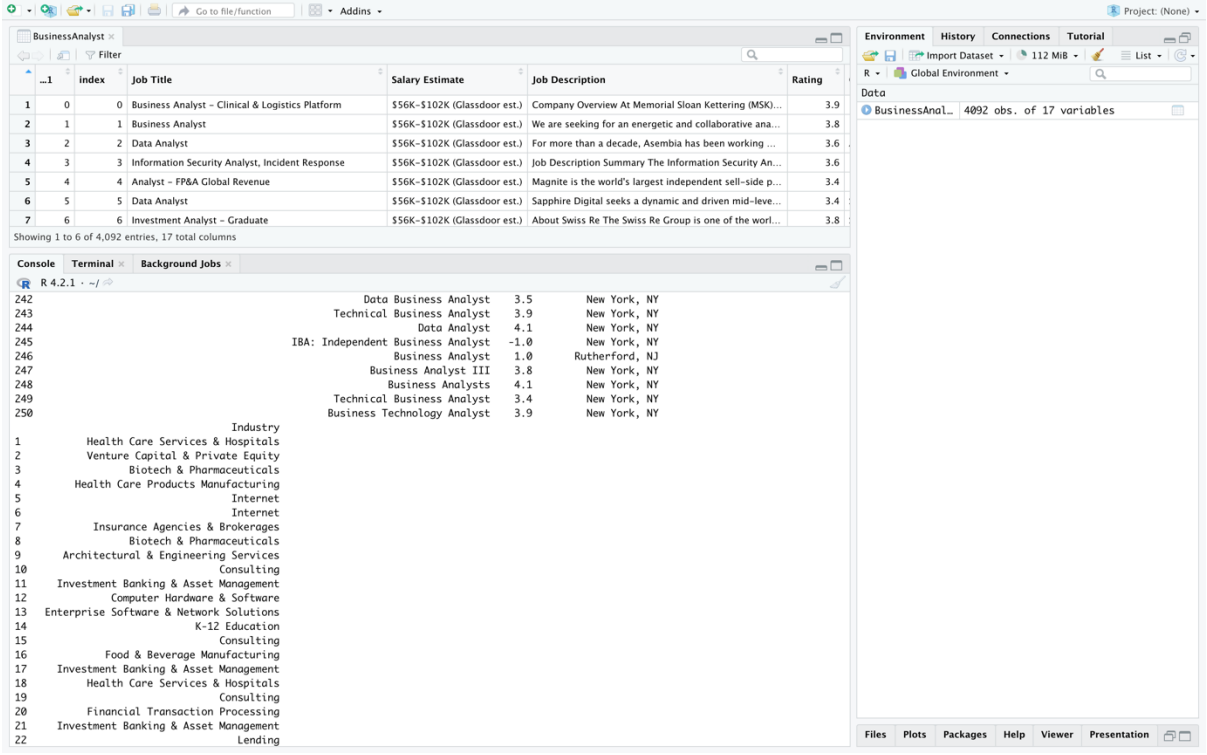
Q4



	...1	index	Job Title	Salary Estimate	Job Description	Rating
1	0	0	Business Analyst - Clinical & Logistics Platform	$56K-$102K (Glassdoor est.)	Company Overview At Memorial Sloan Kettering (MSK)...	3.9
2	1	1	Business Analyst	$56K-$102K (Glassdoor est.)	We are seeking for an energetic and collaborative ana...	3.8
3	2	2	Data Analyst	$56K-$102K (Glassdoor est.)	For more than a decade, Asembia has been working ...	3.6
4	3	3	Information Security Analyst, Incident Response	$56K-$102K (Glassdoor est.)	Job Description Summary The Information Security An...	3.6
5	4	4	Analyst - FP&A Global Revenue	$56K-$102K (Glassdoor est.)	Magnite is the world's largest independent sell-side p...	3.4
6	5	5	Data Analyst	$56K-$102K (Glassdoor est.)	Sapphire Digital seeks a dynamic and driven mid-leve...	3.4
7	6	6	Investment Analyst - Graduate	$56K-$102K (Glassdoor est.)	About Swiss Re The Swiss Re Group is one of the worl...	3.8

Showing 1 to 6 of 4,092 entries, 17 total columns

```
> BusinessAnalyst[c('Job Title', 'Rating', 'Location', 'Industry')]
                                                                Job Title Rating            Location
1                                 Business Analyst - Clinical & Logistics Platform    3.9        New York, NY
2                                                          Business Analyst    3.8        New York, NY
3                                                             Data Analyst    3.6     Florham Park, NJ
4                                  Information Security Analyst, Incident Response    3.6   Franklin Lakes, NJ
5                                                Analyst - FP&A Global Revenue    3.4        New York, NY
6                                                             Data Analyst    3.4       Lyndhurst, NJ
7                                                Investment Analyst - Graduate    3.8        New York, NY
8                                                 IT Business Process Analysis    3.8      Jersey City, NJ
9                                                      Tolling Business Analyst    4.2        New York, NY
10                                                      Business Analyst - Risk    4.4        New York, NY
11    PGIM Investments - Research Analyst, Strategic Investment Research Group    3.9          Newark, NJ
12                                                  Business Development Analyst    4.4        New York, NY
13                            Senior Analyst, Business Intelligence (Looker BI)    4.1        New York, NY
14                                                  Business Systems Analyst    3.6        Brooklyn, NY
15                                                         Business Analyst    4.2        New York, NY
16                                                            Digital Analyst    3.1      Hackensack, NJ
17                                       Municipal Structured Products Analyst    3.7        New York, NY
18                                                  Senior Business Analyst    3.8        New York, NY
19                                                         Business Analyst    3.8        New York, NY
20                                       Business Intelligence Analyst    3.4        New York, NY
21                                              Business Analyst - CRM    3.6        New York, NY
22                                                  Senior FP&A Analyst    4.2        New York, NY
23                                                         Business Analyst    3.8        New York, NY
24                                           Business Solutions Analyst    4.7        New York, NY
25                                                            Data Analyst    4.0        New York, NY
26  Operations Regulatory Control Change Lead Business Analyst - Vice President    3.7        New York, NY
27          Senior Data Analyst, Insights & Analytics Team [Customer Operations]    3.4        New York, NY
28                                                         Business Analyst    5.0        New York, NY
29                                                KYC Business System Analyst    3.1      Jersey City, NJ
```



	...1	index	Job Title	Salary Estimate	Job Description	Rating
1	0	0	Business Analyst - Clinical & Logistics Platform	$56K-$102K (Glassdoor est.)	Company Overview At Memorial Sloan Kettering (MSK)...	3.9
2	1	1	Business Analyst	$56K-$102K (Glassdoor est.)	We are seeking for an energetic and collaborative ana...	3.8
3	2	2	Data Analyst	$56K-$102K (Glassdoor est.)	For more than a decade, Asembia has been working ...	3.6
4	3	3	Information Security Analyst, Incident Response	$56K-$102K (Glassdoor est.)	Job Description Summary The Information Security An...	3.6
5	4	4	Analyst - FP&A Global Revenue	$56K-$102K (Glassdoor est.)	Magnite is the world's largest independent sell-side p...	3.4
6	5	5	Data Analyst	$56K-$102K (Glassdoor est.)	Sapphire Digital seeks a dynamic and driven mid-leve...	3.4
7	6	6	Investment Analyst - Graduate	$56K-$102K (Glassdoor est.)	About Swiss Re The Swiss Re Group is one of the worl...	3.8

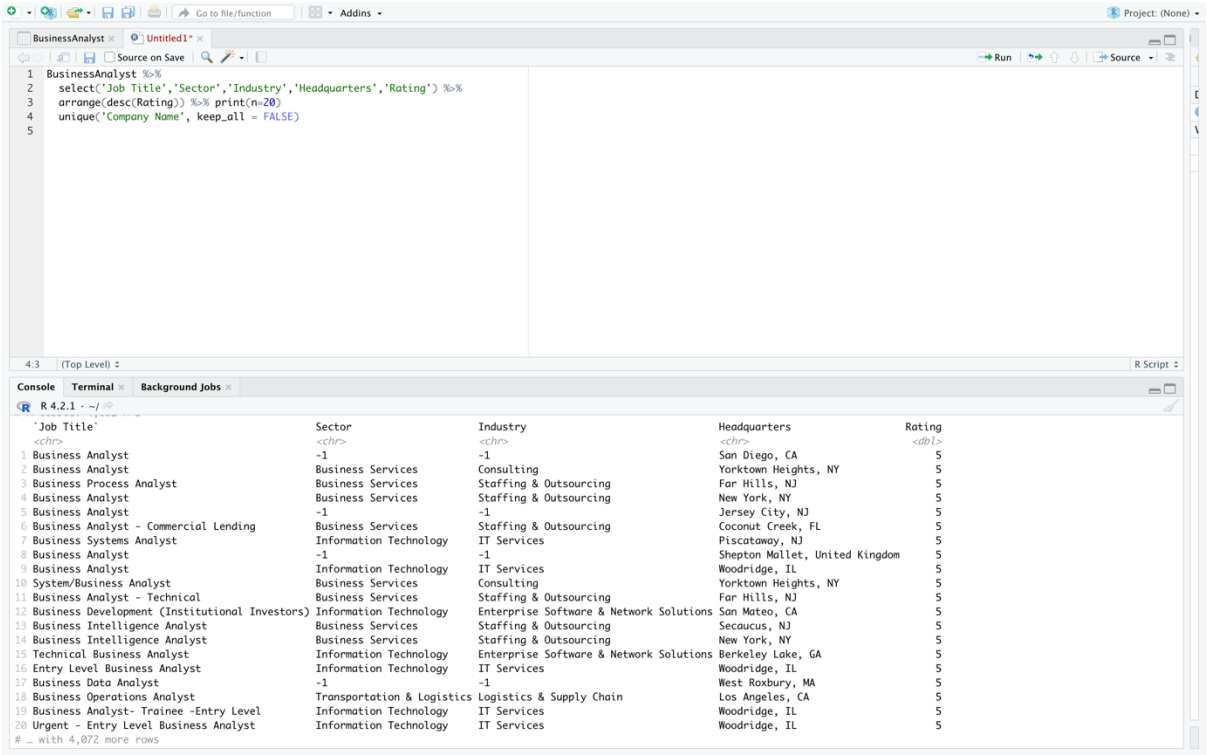
Showing 1 to 6 of 4,092 entries, 17 total columns

```
242                                                Data Business Analyst    3.5        New York, NY
243                                             Technical Business Analyst    3.9        New York, NY
244                                                           Data Analyst    4.1        New York, NY
245                                  IBA: Independent Business Analyst   -1.0        New York, NY
246                                                    Business Analyst    1.0       Rutherford, NJ
247                                               Business Analyst III    3.8        New York, NY
248                                                  Business Analysts    4.1        New York, NY
249                                             Technical Business Analyst    3.4        New York, NY
250                                          Business Technology Analyst    3.9        New York, NY
                                Industry
1          Health Care Services & Hospitals
2          Venture Capital & Private Equity
3                 Biotech & Pharmaceuticals
4        Health Care Products Manufacturing
5                                  Internet
6                                  Internet
7           Insurance Agencies & Brokerages
8                 Biotech & Pharmaceuticals
9       Architectural & Engineering Services
10                              Consulting
11    Investment Banking & Asset Management
12            Computer Hardware & Software
13  Enterprise Software & Network Solutions
14                          K-12 Education
15                              Consulting
16           Food & Beverage Manufacturing
17    Investment Banking & Asset Management
18         Health Care Services & Hospitals
19                              Consulting
20        Financial Transaction Processing
21    Investment Banking & Asset Management
22                              Lending
```

The two screenshots here depict the code and resulting table to display 4 relevant columns. With over 4000 entries, not every entry was displayed.

By Gerard Utoware

Q5



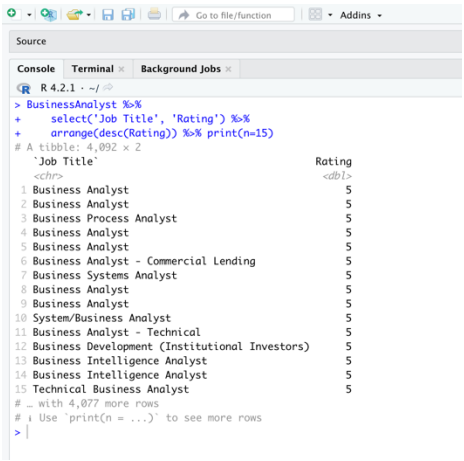
```
BusinessAnalyst %>%
  select('Job Title','Sector','Industry','Headquarters','Rating') %>%
  arrange(desc(Rating)) %>% print(n=20)
  unique('Company Name', keep_all = FALSE)
```

	`Job Title`	Sector	Industry	Headquarters	Rating
	<chr>	<chr>	<chr>	<chr>	<dbl>
1	Business Analyst	-1	-1	San Diego, CA	5
2	Business Analyst	Business Services	Consulting	Yorktown Heights, NY	5
3	Business Process Analyst	Business Services	Staffing & Outsourcing	Far Hills, NJ	5
4	Business Analyst	Business Services	Staffing & Outsourcing	New York, NY	5
5	Business Analyst	-1	-1	Jersey City, NJ	5
6	Business Analyst - Commercial Lending	Business Services	Staffing & Outsourcing	Coconut Creek, FL	5
7	Business Systems Analyst	Information Technology	IT Services	Piscataway, NJ	5
8	Business Analyst	-1	-1	Shepton Mallet, United Kingdom	5
9	Business Analyst	Information Technology	IT Services	Woodridge, IL	5
10	System/Business Analyst	Business Services	Consulting	Yorktown Heights, NY	5
11	Business Analyst - Technical	Business Services	Staffing & Outsourcing	Far Hills, NJ	5
12	Business Development (Institutional Investors)	Information Technology	Enterprise Software & Network Solutions	San Mateo, CA	5
13	Business Intelligence Analyst	Business Services	Staffing & Outsourcing	Secaucus, NJ	5
14	Business Intelligence Analyst	Business Services	Staffing & Outsourcing	New York, NY	5
15	Technical Business Analyst	Information Technology	Enterprise Software & Network Solutions	Berkeley Lake, GA	5
16	Entry Level Business Analyst	Information Technology	IT Services	Woodridge, IL	5
17	Business Data Analyst	-1	-1	West Roxbury, MA	5
18	Business Operations Analyst	Transportation & Logistics	Logistics & Supply Chain	Los Angeles, CA	5
19	Business Analyst- Trainee -Entry Level	Information Technology	IT Services	Woodridge, IL	5
20	Urgent - Entry Level Business Analyst	Information Technology	IT Services	Woodridge, IL	5

… with 4,072 more rows

The image depicts the line of code used in order to display the top 20 industries, sectors and headquarters by Rating where there are no outright duplicates, only unique values.

Q6a



```
> BusinessAnalyst %>%
+     select('Job Title', 'Rating') %>%
+     arrange(desc(Rating)) %>% print(n=15)
```

A tibble: 4,092 × 2

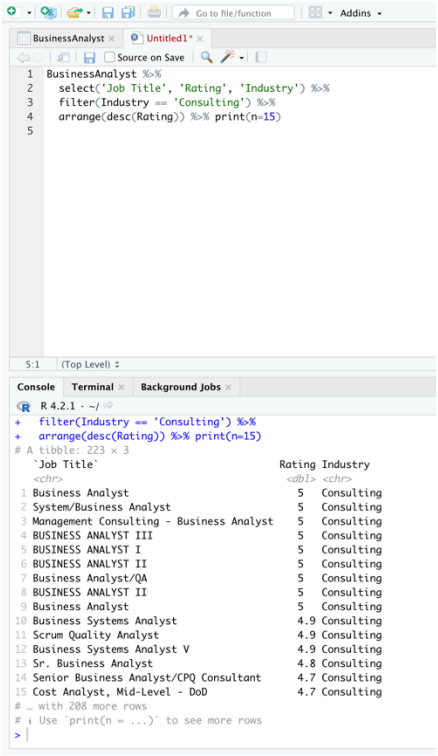
	`Job Title`	Rating
	<chr>	<dbl>
1	Business Analyst	5
2	Business Analyst	5
3	Business Process Analyst	5
4	Business Analyst	5
5	Business Analyst	5
6	Business Analyst - Commercial Lending	5
7	Business Systems Analyst	5
8	Business Analyst	5
9	Business Analyst	5
10	System/Business Analyst	5
11	Business Analyst - Technical	5
12	Business Development (Institutional Investors)	5
13	Business Intelligence Analyst	5
14	Business Intelligence Analyst	5
15	Technical Business Analyst	5

… with 4,077 more rows

ℹ Use `print(n = ...)` to see more rows

Screenshot shows the line of code used to call the top 15 jobs based on rating after loading the dplyr package. All 15 jobs shown here had a perfect rating of 5.

By Gerard Utoware



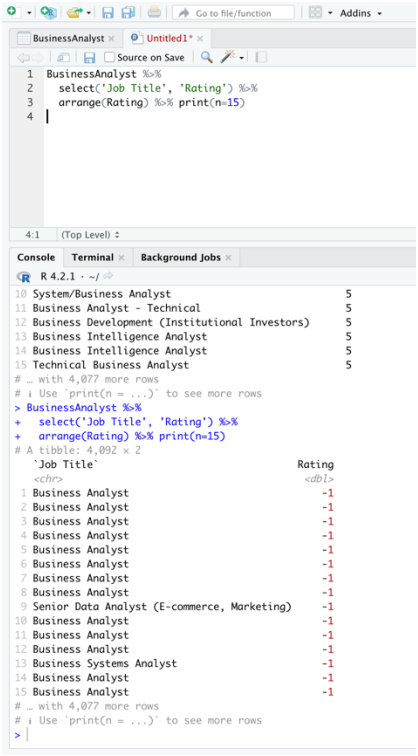
```
BusinessAnalyst %>%
  select('Job Title', 'Rating', 'Industry') %>%
  filter(Industry == 'Consulting') %>%
  arrange(desc(Rating)) %>% print(n=15)
```

```
+   filter(Industry == 'Consulting') %>%
+   arrange(desc(Rating)) %>% print(n=15)
# A tibble: 223 × 3
   `Job Title`                                  Rating Industry
   <chr>                                         <dbl> <chr>
 1 Business Analyst                                5   Consulting
 2 System/Business Analyst                         5   Consulting
 3 Management Consulting - Business Analyst        5   Consulting
 4 BUSINESS ANALYST III                            5   Consulting
 5 BUSINESS ANALYST I                              5   Consulting
 6 BUSINESS ANALYST II                             5   Consulting
 7 Business Analyst/QA                             5   Consulting
 8 BUSINESS ANALYST II                             5   Consulting
 9 Business Analyst                                5   Consulting
10 Business Systems Analyst                        4.9 Consulting
11 Scrum Quality Analyst                           4.9 Consulting
12 Business Systems Analyst V                      4.9 Consulting
13 Sr. Business Analyst                            4.8 Consulting
14 Senior Business Analyst/CPQ Consultant          4.7 Consulting
15 Cost Analyst, Mid-Level - DoD                   4.7 Consulting
# … with 208 more rows
# ℹ Use `print(n = ...)` to see more rows
>
```

Image shows the line of code used to call the top 15 jobs based on rating in the consulting industry after loading the dplyr package. Most of the jobs listed here appear to involve some form of Business analytics.

6c

By Gerard Utoware

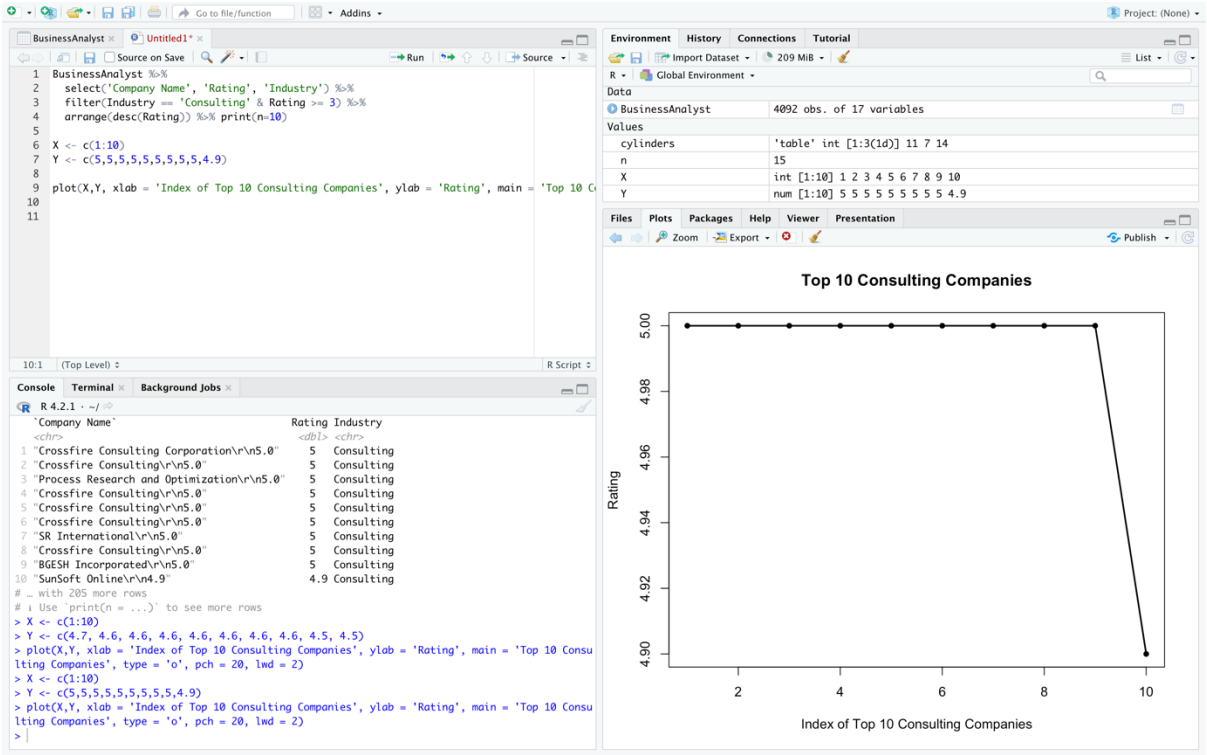


```
BusinessAnalyst %>%
  select('Job Title', 'Rating') %>%
  arrange(Rating) %>% print(n=15)
```

```
Console  Terminal  Background Jobs
R 4.2.1 · ~/
System/Business Analyst                                5
Business Analyst - Technical                           5
Business Development (Institutional Investors)         5
Business Intelligence Analyst                          5
Business Intelligence Analyst                          5
Technical Business Analyst                             5
# … with 4,077 more rows
# ℹ Use `print(n = ...)` to see more rows
> BusinessAnalyst %>%
+   select('Job Title', 'Rating') %>%
+   arrange(Rating) %>% print(n=15)
# A tibble: 4,092 × 2
   `Job Title`                                  Rating
   <chr>                                         <dbl>
 1 Business Analyst                                -1
 2 Business Analyst                                -1
 3 Business Analyst                                -1
 4 Business Analyst                                -1
 5 Business Analyst                                -1
 6 Business Analyst                                -1
 7 Business Analyst                                -1
 8 Business Analyst                                -1
 9 Senior Data Analyst (E-commerce, Marketing)     -1
10 Business Analyst                                -1
11 Business Analyst                                -1
12 Business Analyst                                -1
13 Business Systems Analyst                        -1
14 Business Analyst                                -1
15 Business Analyst                                -1
# … with 4,077 more rows
# ℹ Use `print(n = ...)` to see more rows
>
```

Image shows the line of code used to call the bottom 15 jobs based on rating after loading the dplyr package.

Q7a



```
BusinessAnalyst %>%
  select('Company Name', 'Rating', 'Industry') %>%
  filter(Industry == 'Consulting' & Rating >= 3) %>%
  arrange(desc(Rating)) %>% print(n=10)

X <- c(1:10)
Y <- c(5,5,5,5,5,5,5,5,5,4.9)

plot(X,Y, xlab = 'Index of Top 10 Consulting Companies', ylab = 'Rating', main = 'Top 10 C
```

```
Console  Terminal  Background Jobs
R 4.2.1 · ~/
   `Company Name`                                  Rating Industry
   <chr>                                            <dbl> <chr>
 1 "Crossfire Consulting Corporation\r\n5.0"            5 Consulting
 2 "Crossfire Consulting\r\n5.0"                       5 Consulting
 3 "Process Research and Optimization\r\n5.0"          5 Consulting
 4 "Crossfire Consulting\r\n5.0"                       5 Consulting
 5 "Crossfire Consulting\r\n5.0"                       5 Consulting
 6 "Crossfire Consulting\r\n5.0"                       5 Consulting
 7 "SR International\r\n5.0"                           5 Consulting
 8 "Crossfire Consulting\r\n5.0"                       5 Consulting
 9 "BGESH Incorporated\r\n5.0"                         5 Consulting
10 "SunSoft Online\r\n4.9"                             4.9 Consulting
# … with 205 more rows
# ℹ Use `print(n = ...)` to see more rows
> X <- c(1:10)
> Y <- c(4.7, 4.6, 4.6, 4.6, 4.6, 4.6, 4.6, 4.6, 4.5, 4.5)
> plot(X,Y, xlab = 'Index of Top 10 Consulting Companies', ylab = 'Rating', main = 'Top 10 Consu
lting Companies', type = 'o', pch = 20, lwd = 2)
> X <- c(1:10)
> Y <- c(5,5,5,5,5,5,5,5,5,4.9)
> plot(X,Y, xlab = 'Index of Top 10 Consulting Companies', ylab = 'Rating', main = 'Top 10 Consu
lting Companies', type = 'o', pch = 20, lwd = 2)
>
```

```
Environment  History  Connections  Tutorial
Import Dataset  209 MiB  List
R  Global Environment
Data
BusinessAnalyst   4092 obs. of 17 variables
Values
cylinders   'table' int [1:3(1d)] 11 7 14
n           15
X           int [1:10] 1 2 3 4 5 6 7 8 9 10
Y           num [1:10] 5 5 5 5 5 5 5 5 5 4.9
```


Screenshot shows the line of code used to call the top 10 companies based on ratings more than 3 and in the Consulting industry after loading the dplyr package. The consulting had the highest average rating amongst itself, energy, and the accounting industries with only one company in the top 10 not having a rating of 5.

By Gerard Utoware

7b

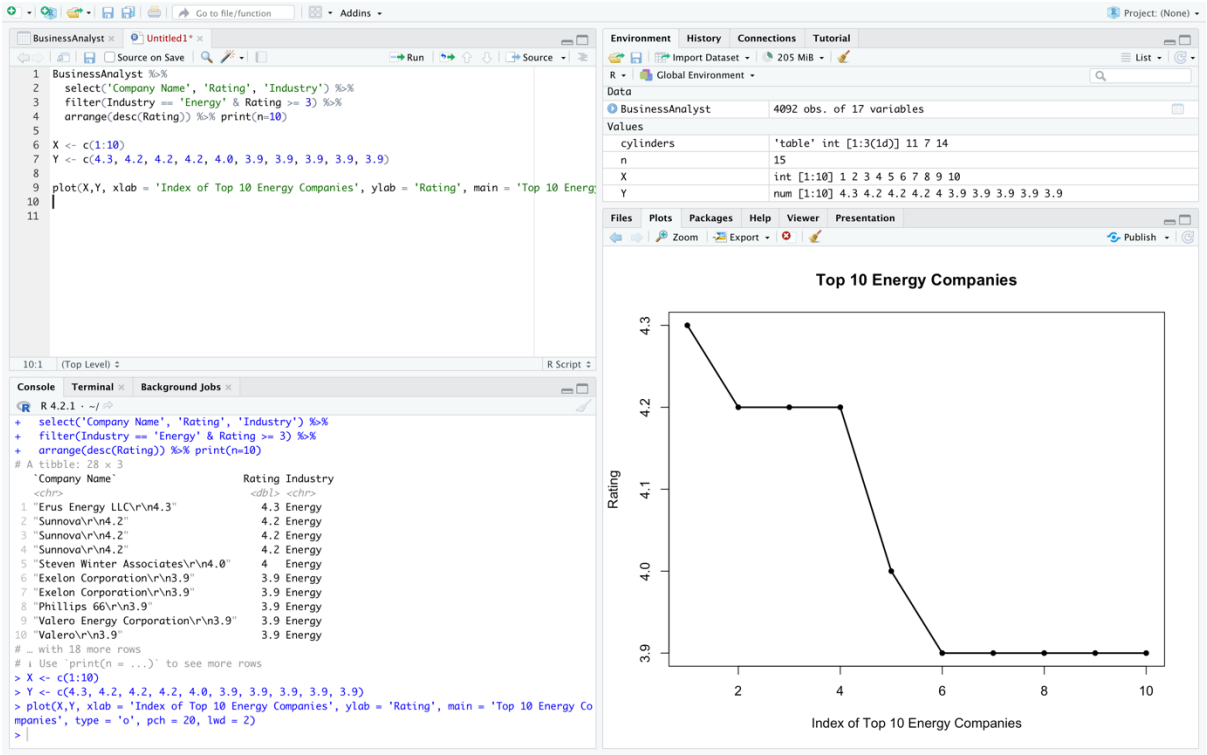


Image depicting the line of code used to call the top 10 companies based on ratings more than 3 and in the Energy industry after loading the dplyr package.

7c

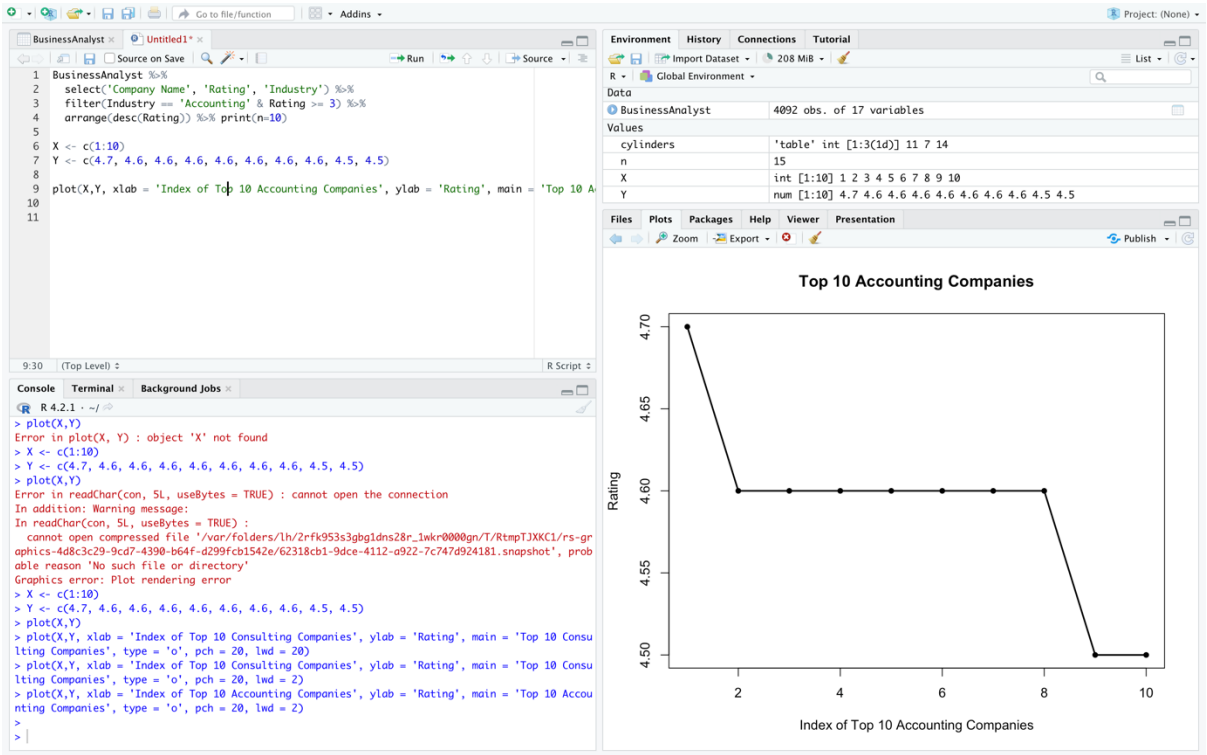
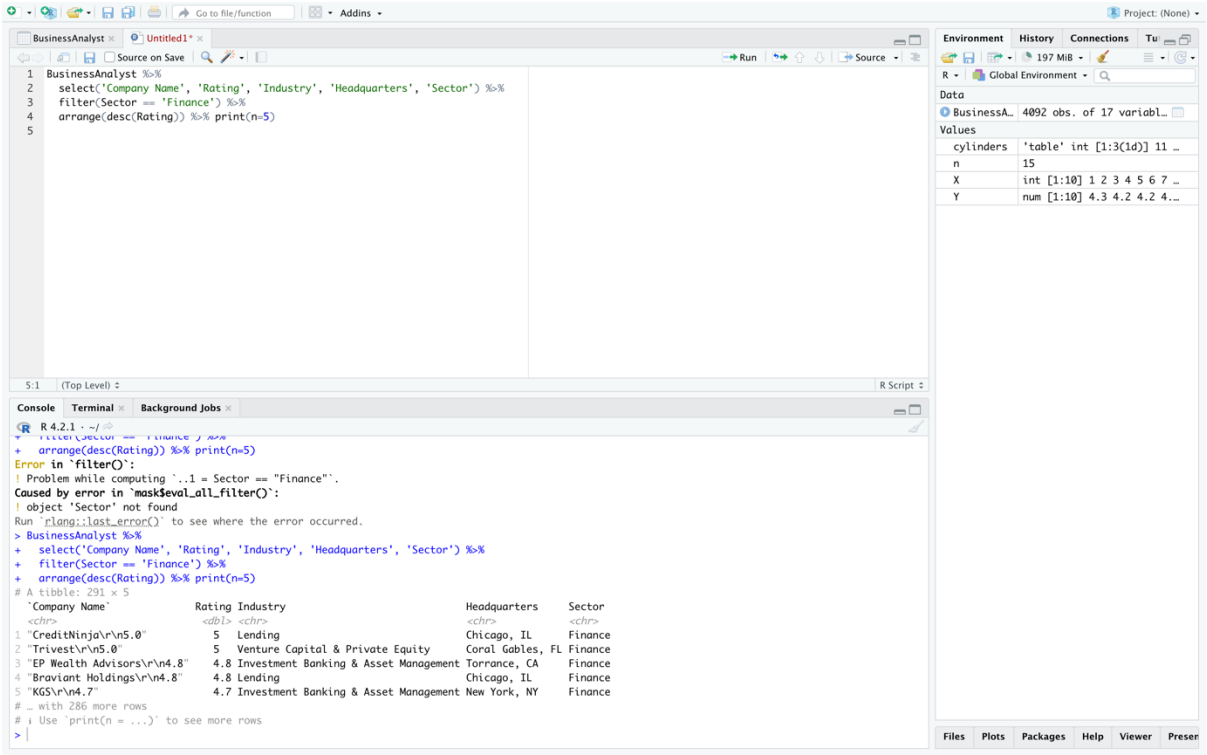


Image depicting the line of code used to call the top 10 companies based on ratings more than 3 and in the accounting industry after loading the dplyr package.

By Gerard Utoware

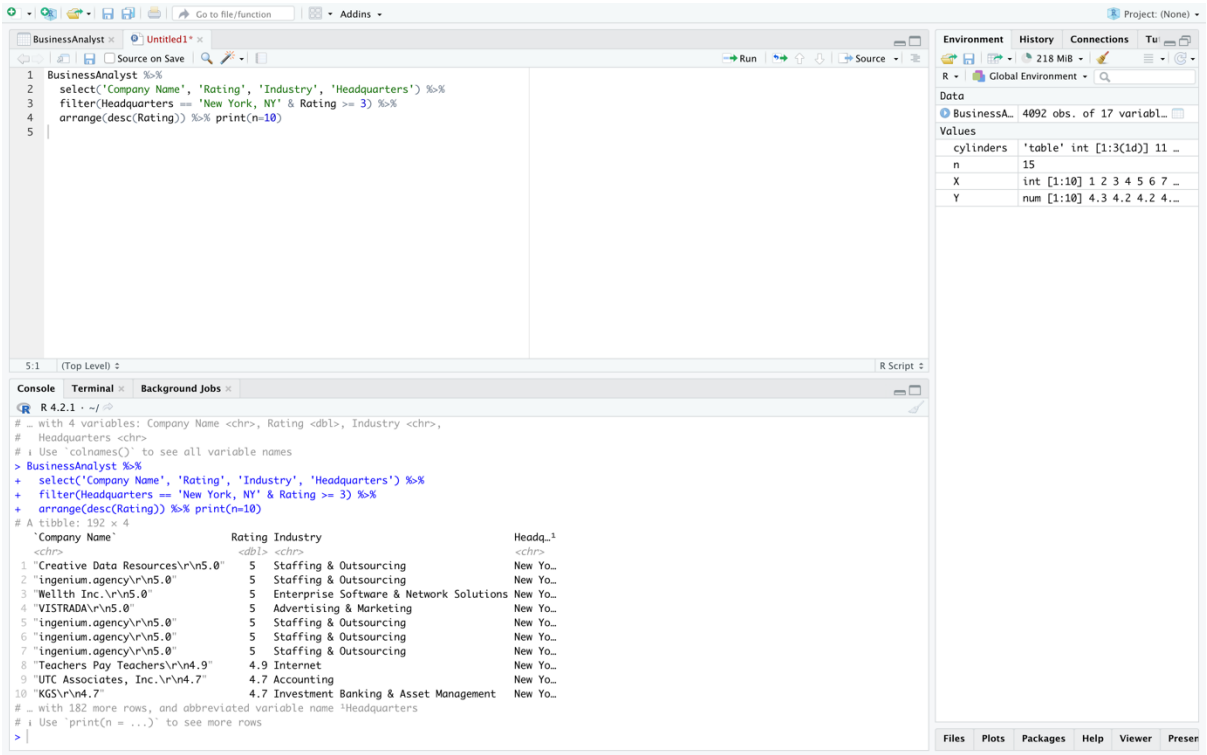
Q8: Extra Summaries



```
BusinessAnalyst %>%
  select('Company Name', 'Rating', 'Industry', 'Headquarters', 'Sector') %>%
  filter(Sector == 'Finance') %>%
  arrange(desc(Rating)) %>% print(n=5)
```

```
+   arrange(desc(Rating)) %>% print(n=5)
Error in `filter()`:
! Problem while computing `..1 = Sector == "Finance"`.
Caused by error in `mask$eval_all_filter()`:
! object 'Sector' not found
Run `rlang::last_error()` to see where the error occurred.
> BusinessAnalyst %>%
+   select('Company Name', 'Rating', 'Industry', 'Headquarters', 'Sector') %>%
+   filter(Sector == 'Finance') %>%
+   arrange(desc(Rating)) %>% print(n=5)
# A tibble: 291 × 5
  `Company Name`              Rating Industry                          Headquarters     Sector
  <chr>                        <dbl> <chr>                             <chr>            <chr>
1 "CreditNinja\r\n5.0"             5 Lending                           Chicago, IL      Finance
2 "Trivest\r\n5.0"                 5 Venture Capital & Private Equity  Coral Gables, FL Finance
3 "EP Wealth Advisors\r\n4.8"      4.8 Investment Banking & Asset Management Torrance, CA  Finance
4 "Braviant Holdings\r\n4.8"       4.8 Lending                         Chicago, IL      Finance
5 "KGS\r\n4.7"                     4.7 Investment Banking & Asset Management New York, NY  Finance
# … with 286 more rows
# ℹ Use `print(n = ...)` to see more rows
>
```

Image depicting the line of code used to call the top 5 Finance companies based on rating. Notably, two of these companies are in Chicago.

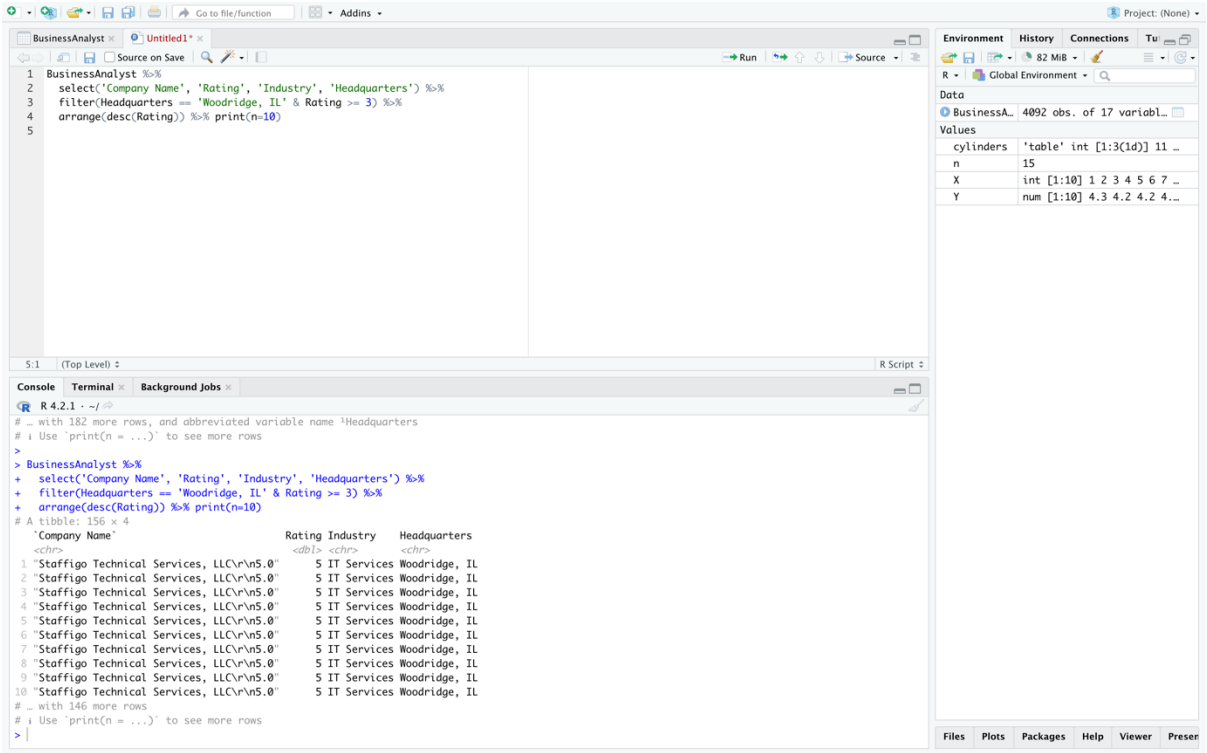


```
BusinessAnalyst %>%
  select('Company Name', 'Rating', 'Industry', 'Headquarters') %>%
  filter(Headquarters == 'New York, NY' & Rating >= 3) %>%
  arrange(desc(Rating)) %>% print(n=10)
```

```
# … with 4 variables: Company Name <chr>, Rating <dbl>, Industry <chr>,
#   Headquarters <chr>
# ℹ Use `colnames()` to see all variable names
> BusinessAnalyst %>%
+   select('Company Name', 'Rating', 'Industry', 'Headquarters') %>%
+   filter(Headquarters == 'New York, NY' & Rating >= 3) %>%
+   arrange(desc(Rating)) %>% print(n=10)
# A tibble: 192 × 4
   `Company Name`                  Rating Industry                          Headq…¹
   <chr>                            <dbl> <chr>                             <chr>
 1 "Creative Data Resources\r\n5.0"     5 Staffing & Outsourcing            New Yo…
 2 "ingenium.agency\r\n5.0"             5 Staffing & Outsourcing            New Yo…
 3 "Wellth Inc.\r\n5.0"                 5 Enterprise Software & Network Solutions New Yo…
 4 "VISTRADA\r\n5.0"                    5 Advertising & Marketing           New Yo…
 5 "ingenium.agency\r\n5.0"             5 Staffing & Outsourcing            New Yo…
 6 "ingenium.agency\r\n5.0"             5 Staffing & Outsourcing            New Yo…
 7 "ingenium.agency\r\n5.0"             5 Staffing & Outsourcing            New Yo…
 8 "Teachers Pay Teachers\r\n4.9"       4.9 Internet                        New Yo…
 9 "UTC Associates, Inc.\r\n4.7"        4.7 Accounting                      New Yo…
10 "KGS\r\n4.7"                         4.7 Investment Banking & Asset Management New Yo…
# … with 182 more rows, and abbreviated variable name ¹Headquarters
# ℹ Use `print(n = ...)` to see more rows
>
```

Image depicting the line of code used to call the top 10 companies with a rating of over 3 and their headquarters being located in New York. With the Staffing & Outsourcing industry being the most dominant here.

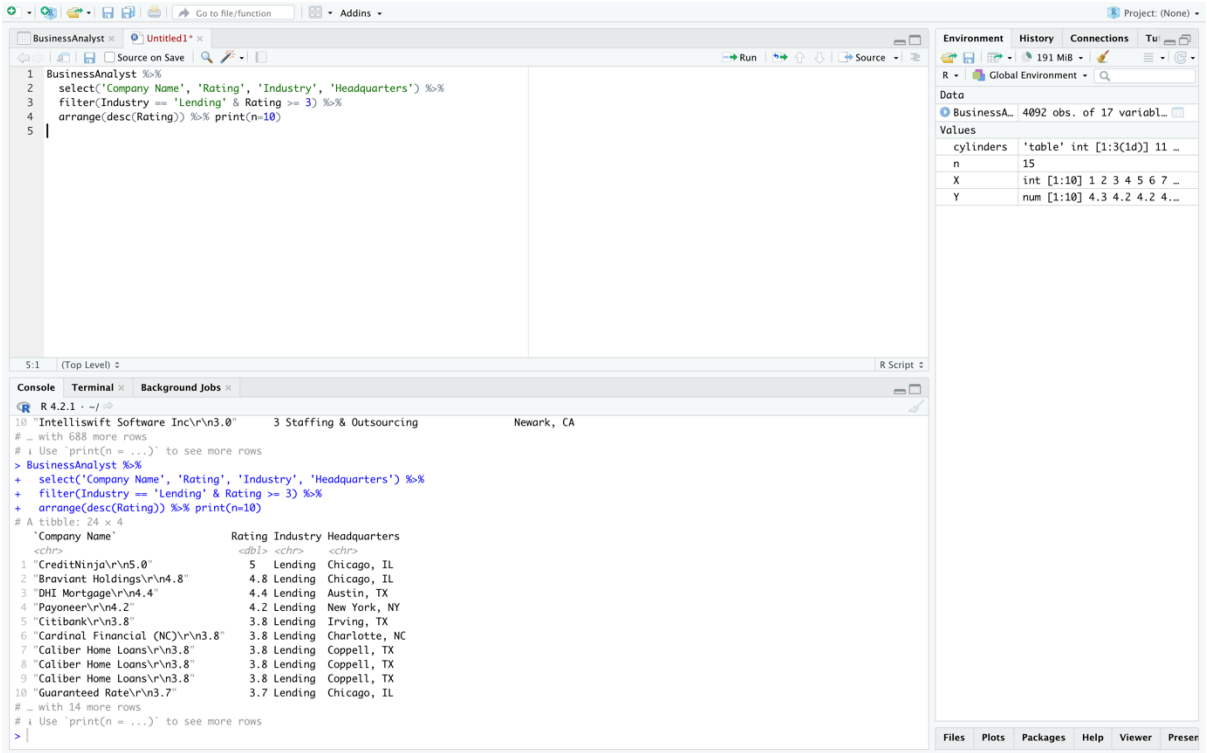
By Gerard Utoware



```
BusinessAnalyst %>%
  select('Company Name', 'Rating', 'Industry', 'Headquarters') %>%
  filter(Headquarters == 'Woodridge, IL' & Rating >= 3) %>%
  arrange(desc(Rating)) %>% print(n=10)
```

```
# … with 182 more rows, and abbreviated variable name ¹Headquarters
# ℹ Use `print(n = ...)` to see more rows
>
> BusinessAnalyst %>%
+   select('Company Name', 'Rating', 'Industry', 'Headquarters') %>%
+   filter(Headquarters == 'Woodridge, IL' & Rating >= 3) %>%
+   arrange(desc(Rating)) %>% print(n=10)
# A tibble: 156 × 4
   `Company Name`                          Rating Industry    Headquarters
   <chr>                                    <dbl> <chr>       <chr>
 1 "Staffigo Technical Services, LLC\r\n5.0"    5 IT Services Woodridge, IL
 2 "Staffigo Technical Services, LLC\r\n5.0"    5 IT Services Woodridge, IL
 3 "Staffigo Technical Services, LLC\r\n5.0"    5 IT Services Woodridge, IL
 4 "Staffigo Technical Services, LLC\r\n5.0"    5 IT Services Woodridge, IL
 5 "Staffigo Technical Services, LLC\r\n5.0"    5 IT Services Woodridge, IL
 6 "Staffigo Technical Services, LLC\r\n5.0"    5 IT Services Woodridge, IL
 7 "Staffigo Technical Services, LLC\r\n5.0"    5 IT Services Woodridge, IL
 8 "Staffigo Technical Services, LLC\r\n5.0"    5 IT Services Woodridge, IL
 9 "Staffigo Technical Services, LLC\r\n5.0"    5 IT Services Woodridge, IL
10 "Staffigo Technical Services, LLC\r\n5.0"    5 IT Services Woodridge, IL
# … with 146 more rows
# ℹ Use `print(n = ...)` to see more rows
>
```

Image depicting the line of code used to call the top 10 companies in Woodridge, IL. Woodridge appears to be dominated by IT Services.

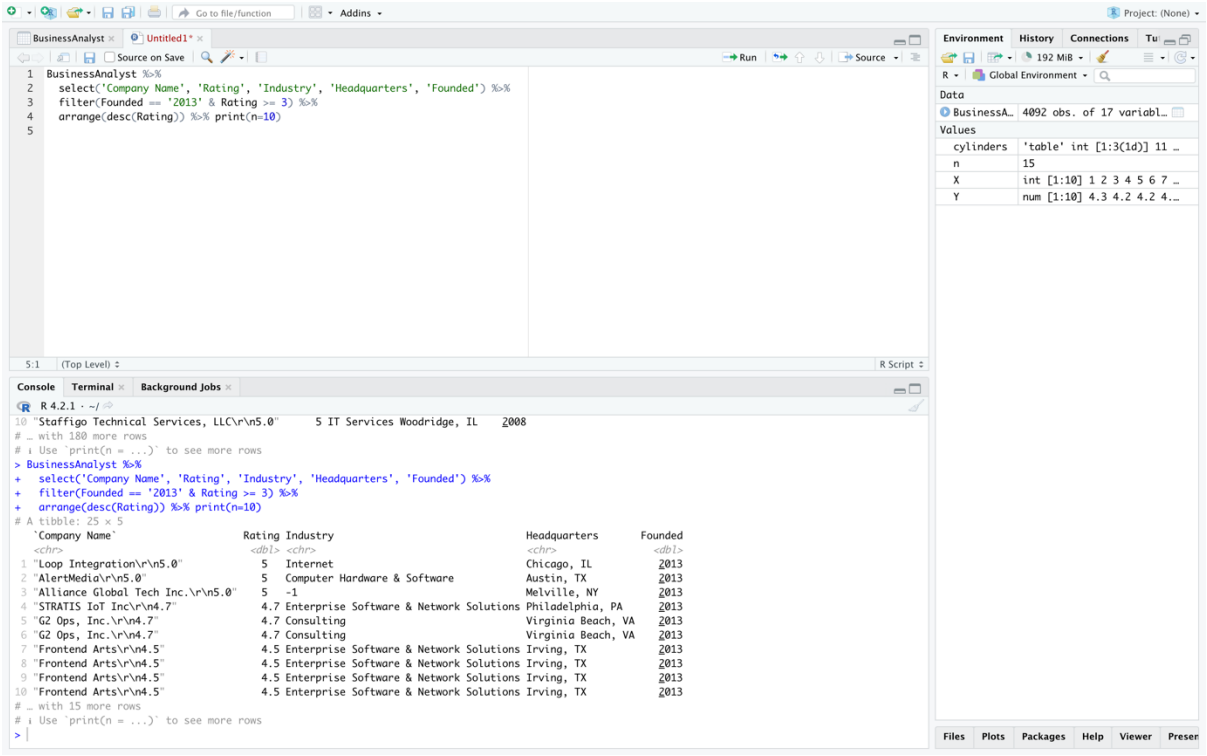


```
BusinessAnalyst %>%
  select('Company Name', 'Rating', 'Industry', 'Headquarters') %>%
  filter(Industry == 'Lending' & Rating >= 3) %>%
  arrange(desc(Rating)) %>% print(n=10)
```

```
10 "Intelliswift Software Inc\r\n3.0"      3 Staffing & Outsourcing              Newark, CA
# … with 688 more rows
# ℹ Use `print(n = ...)` to see more rows
> BusinessAnalyst %>%
+   select('Company Name', 'Rating', 'Industry', 'Headquarters') %>%
+   filter(Industry == 'Lending' & Rating >= 3) %>%
+   arrange(desc(Rating)) %>% print(n=10)
# A tibble: 24 × 4
   `Company Name`                    Rating Industry Headquarters
   <chr>                              <dbl> <chr>    <chr>
 1 "CreditNinja\r\n5.0"                   5 Lending  Chicago, IL
 2 "Braviant Holdings\r\n4.8"             4.8 Lending Chicago, IL
 3 "DHI Mortgage\r\n4.4"                  4.4 Lending Austin, TX
 4 "Payoneer\r\n4.2"                      4.2 Lending New York, NY
 5 "Citibank\r\n3.8"                      3.8 Lending Irving, TX
 6 "Cardinal Financial (NC)\r\n3.8"       3.8 Lending Charlotte, NC
 7 "Caliber Home Loans\r\n3.8"            3.8 Lending Coppell, TX
 8 "Caliber Home Loans\r\n3.8"            3.8 Lending Coppell, TX
 9 "Caliber Home Loans\r\n3.8"            3.8 Lending Coppell, TX
10 "Guaranteed Rate\r\n3.7"               3.7 Lending Chicago, IL
# … with 14 more rows
# ℹ Use `print(n = ...)` to see more rows
>
```

Image depicting the line of code used to call the top 10 Lending industry companies. There is a big variance in ratings here between 5 and 3.7.

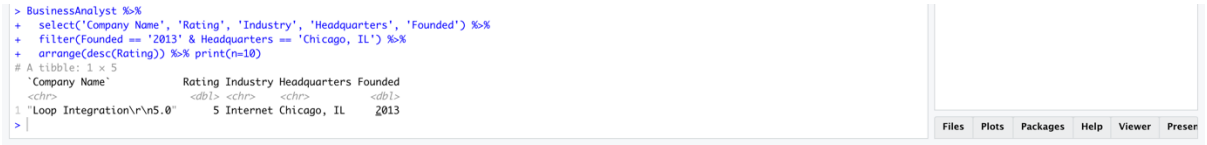
By Gerard Utoware



```
BusinessAnalyst %>%
  select('Company Name', 'Rating', 'Industry', 'Headquarters', 'Founded') %>%
  filter(Founded == '2013' & Rating >= 3) %>%
  arrange(desc(Rating)) %>% print(n=10)
```

```
10 "Staffigo Technical Services, LLC\r\n5.0"      5 IT Services Woodridge, IL    2008
# … with 180 more rows
# ℹ Use `print(n = ...)` to see more rows
> BusinessAnalyst %>%
+   select('Company Name', 'Rating', 'Industry', 'Headquarters', 'Founded') %>%
+   filter(Founded == '2013' & Rating >= 3) %>%
+   arrange(desc(Rating)) %>% print(n=10)
# A tibble: 25 × 5
   `Company Name`                    Rating Industry                              Headquarters       Founded
   <chr>                              <dbl> <chr>                                 <chr>                <dbl>
 1 "Loop Integration\r\n5.0"              5  Internet                              Chicago, IL           2013
 2 "AlertMedia\r\n5.0"                    5  Computer Hardware & Software          Austin, TX            2013
 3 "Alliance Global Tech Inc.\r\n5.0"     5  -1                                    Melville, NY          2013
 4 "STRATIS IoT Inc\r\n4.7"               4.7 Enterprise Software & Network Solutions Philadelphia, PA    2013
 5 "G2 Ops, Inc.\r\n4.7"                  4.7 Consulting                        Virginia Beach, VA    2013
 6 "G2 Ops, Inc.\r\n4.7"                  4.7 Consulting                        Virginia Beach, VA    2013
 7 "Frontend Arts\r\n4.5"                 4.5 Enterprise Software & Network Solutions Irving, TX          2013
 8 "Frontend Arts\r\n4.5"                 4.5 Enterprise Software & Network Solutions Irving, TX          2013
 9 "Frontend Arts\r\n4.5"                 4.5 Enterprise Software & Network Solutions Irving, TX          2013
10 "Frontend Arts\r\n4.5"                 4.5 Enterprise Software & Network Solutions Irving, TX          2013
# … with 15 more rows
# ℹ Use `print(n = ...)` to see more rows
>
```

Image depicting the line of code used to call the top 1o companies founded in 2013.



```
> BusinessAnalyst %>%
+   select('Company Name', 'Rating', 'Industry', 'Headquarters', 'Founded') %>%
+   filter(Founded == '2013' & Headquarters == 'Chicago, IL') %>%
+   arrange(desc(Rating)) %>% print(n=10)
# A tibble: 1 × 5
  `Company Name`           Rating Industry Headquarters Founded
  <chr>                     <dbl> <chr>    <chr>          <dbl>
1 "Loop Integration\r\n5.0"     5 Internet Chicago, IL     2013
>
```

Image depicting the line of code used to call the top companies founded in 2013 and in Chicago. Loop Integration was the only company to meet these criteria.

By Gerard Utoware

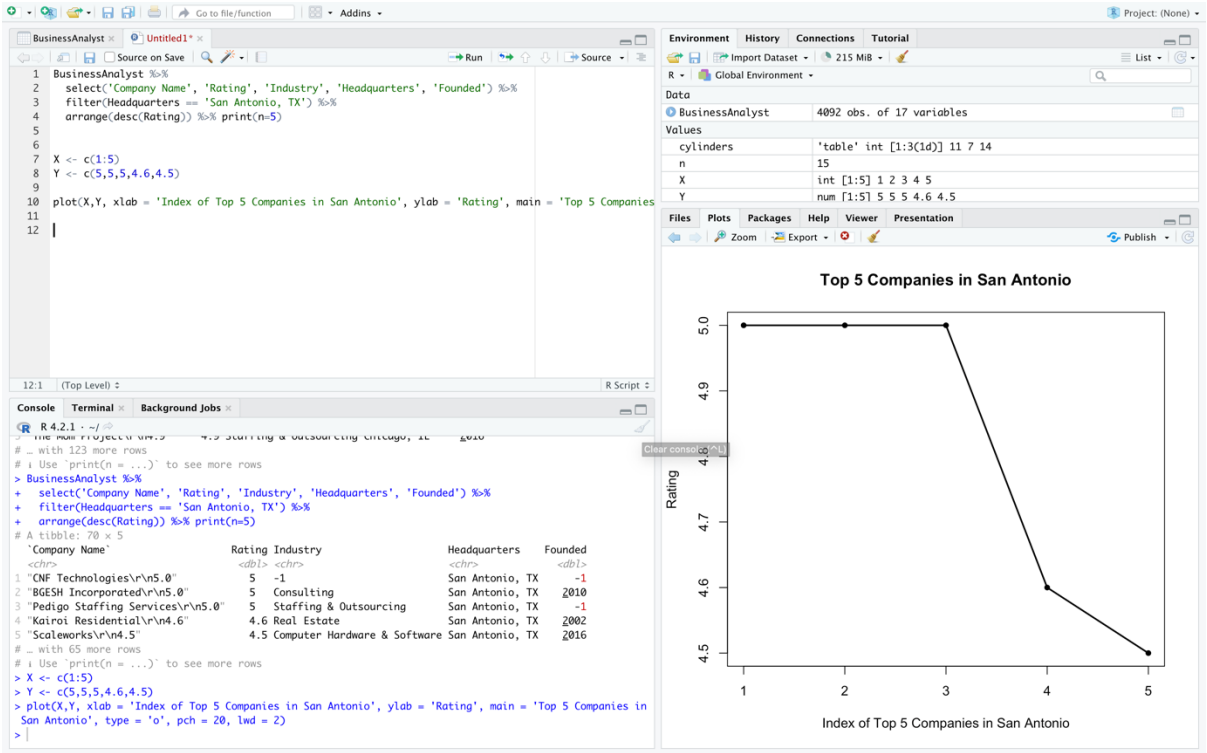


Image depicting the line of code used to call the line graph displaying the ratings of the top 5 companies that have their headquarters in San Antonio. Two companies have their founding year unknown.

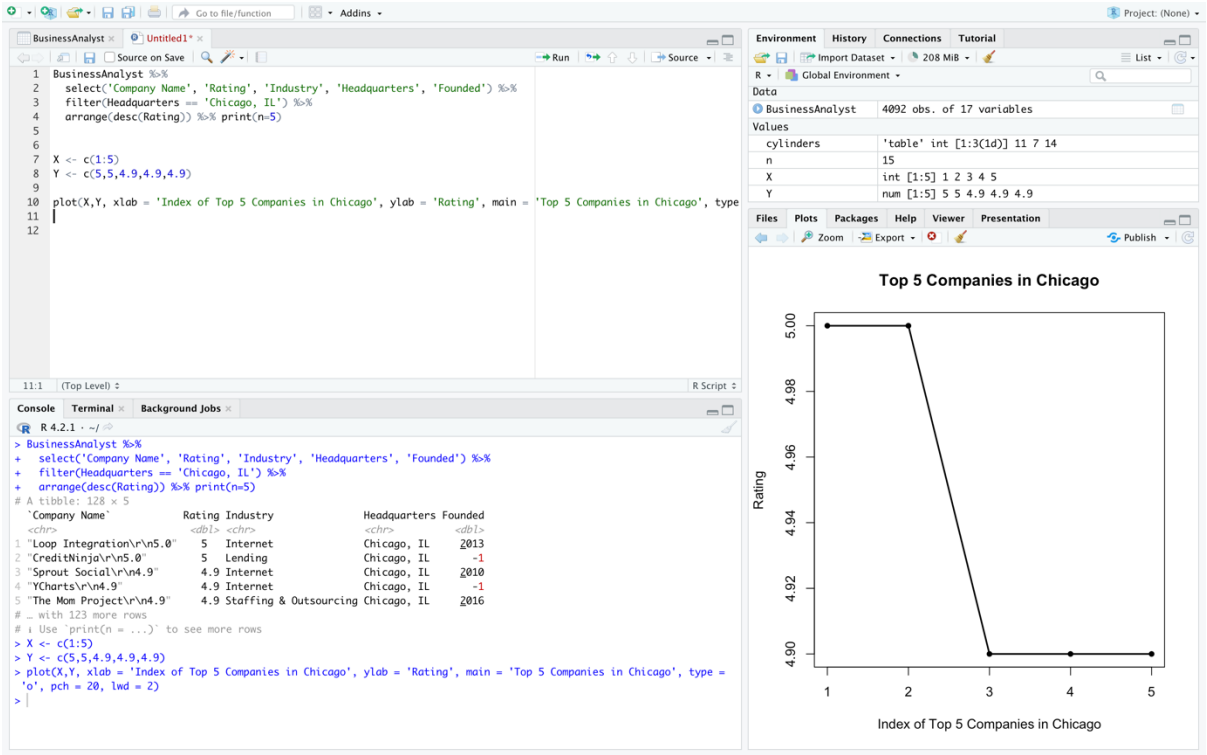


Image depicting the line of code used to call the line graph displaying the ratings of the top 5 companies that have their headquarters in Chicago. Two companies have their founding year unknown.

By Gerard Utoware

```
> BusinessAnalyst %>%
+   select('Company Name', 'Rating', 'Industry', 'Headquarters', 'Founded') %>%
+   filter(Headquarters == 'Philadelphia, PA') %>%
+   arrange(desc(Founded)) %>% print(n=5)
# A tibble: 45 × 5
  `Company Name`            Rating Industry                                 Headquarters     Founded
  <chr>                      <dbl> <chr>                                    <chr>              <dbl>
1 "STRATIS IoT Inc\r\n4.7"     4.7 Enterprise Software & Network Solutions Philadelphia, PA    2013
2 "IntegriChain\r\n3.2"        3.2 IT Services                             Philadelphia, PA    2005
3 "Seer Interactive\r\n3.9"    3.9 Internet                                Philadelphia, PA    2002
4 "Seer Interactive\r\n3.9"    3.9 Internet                                Philadelphia, PA    2002
5 "FreedomPay\r\n3.6"          3.6 Enterprise Software & Network Solutions Philadelphia, PA    2000
# … with 40 more rows
# ℹ Use `print(n = ...)` to see more rows
```

Image depicting the line of code used to call the 5 most recent companies in the Philadelphia area.

```
> BusinessAnalyst %>%
+   select('Company Name', 'Rating', 'Industry', 'Headquarters', 'Founded') %>%
+   filter(Headquarters == 'Zurich, Switzerland') %>%
+   arrange(desc(Founded)) %>% print(n=5)
# A tibble: 4 × 5
  `Company Name`    Rating Industry                                 Headquarters        Founded
  <chr>              <dbl> <chr>                                    <chr>                 <dbl>
1 "Swiss Re\r\n3.8"    3.8 Insurance Agencies & Brokerages          Zurich, Switzerland    1863
2 "UBS\r\n3.6"         3.6 Investment Banking & Asset Management    Zurich, Switzerland    1862
3 "Chubb\r\n3.3"       3.3 Insurance Carriers                       Zurich, Switzerland    1792
4 "Chubb\r\n3.3"       3.3 Insurance Carriers                       Zurich, Switzerland    1792
>
```

Image depicting the line of code used to call the most recent companies in Zurich. No new companies with their headquarters here in over 150 years according to the dataset.