

exploratory_taxis

tho

10/4/2021

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:data.table':
##
##   between, first, last

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

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

##
## Attaching package: 'qqplotr'

## The following objects are masked from 'package:ggplot2':
##
##   stat_qq_line, StatQqLine

##
## Attaching package: 'gridExtra'

## The following object is masked from 'package:dplyr':
##
##   combine
```

```
# EXPLORATORY FOR TRIP.TOTAL BY COMPANY
# max by company
data[,max(Trip.Total),by=Company]
```

```
##
##           Company      V1
## 1:           Top Cab Affiliation  861.72
## 2:   Blue Ribbon Taxi Association Inc. 6666.66
## 3:           Taxi Affiliation Services 9955.55
## 4:                Sun Taxi 1269.25
## 5:           Medallion Leasin 9226.18
## 6:                City Service 9004.25
## 7:      Chicago Independents 9300.25
## 8:   Chicago Carriage Cab Corp 7549.40
## 9:   Star North Management LLC 1100.25
## 10:                Flash Cab 5914.00
## 11:           Petani Cab Corp  500.01
## 12:   Taxicab Insurance Agency, LLC  970.37
## 13:      Choice Taxi Association  813.50
```

```
## 14:      Patriot Taxi Db a Peace Taxi Associat 675.50
## 15:      Chicago Medallion Management 203.00
## 16:      24 Seven Taxi 520.75
## 17:      KOAM Taxi Association 188.00
## 18:      312 Medallion Management Corp 599.86
## 19:      Suburban Dispatch LLC 5321.20
## 20:      Chicago Taxicab 9900.27
## 21:      Nova Taxi Affiliation Llc 526.50
## 22:      Taxi Affiliation Service Yellow 311.25
## 23:      Blue Diamond 141.60
## 24:      Setare Inc 211.89
## 25:      6743 - 78771 Luhak Corp 106.75
## 26:      Metro Jet Taxi A 9900.26
## 27:      Leonard Cab Co 487.50
## 28:      5062 - 34841 Sam Mestas 141.00
## 29:      4053 - 40193 Adwar H. Nikola 107.50
## 30:      3011 - 66308 JBL Cab Inc. 114.25
## 31:      U Taxicab 1746.75
## 32:      3094 - 24059 G.L.B. Cab Co 62.75
## 33:      5 Star Taxi 209.06
## 34:      2092 - 61288 Sbeih company 80.00
## 35:      3556 - 36214 RC Andrews Cab 146.25
## 36:      6742 - 83735 Tasha ride inc 67.75
## 37:      1085 - 72312 N and W Cab Co 88.00
## 38:      2733 - 74600 Benny Jona 348.00
## 39:      5874 - 73628 Sergey Cab Corp. 171.50
## 40:      3620 - 52292 David K. Cab Corp. 126.10
## 41:      4787 - 56058 Reny Cab Co 54.00
## 42:      Checker Taxi Affiliation 302.75
## 43:      5006 - 39261 Salifu Bawa 120.50
## 44:      4623 - 27290 Jay Kim 320.20
## 45:      6574 - Babylon Express Inc. 152.50
## 46:      3623 - 72222 Arrington Enterprises 106.50
## 47: 3721 - Santamaria Express, Alvaro Santamaria 96.75
## 48:      3591 - 63480 Chuks Cab 192.75
## 49:      4523 - 79481 Hazel Transit Inc 87.90
## 50:      CMT-Sales 3.00
## 51:      Globe Taxi 842.00
## 52:      Metro Jet Cab Association Inc. 1000.77
##      Company V1
```

```
data %>%
  group_by(Company) %>%
  summarise(max(Trip.Total),n=n())
```

```
## # A tibble: 52 x 3
##   Company                `max(Trip.Total)`      n
##   <chr>                  <dbl> <int>
## 1 1085 - 72312 N and W Cab Co          88    903
## 2 2092 - 61288 Sbeih company           80    621
## 3 24 Seven Taxi          521.  31615
## 4 2733 - 74600 Benny Jona           348    918
## 5 3011 - 66308 JBL Cab Inc.         114.   2164
## 6 3094 - 24059 G.L.B. Cab Co         62.8    680
## 7 312 Medallion Management Corp       600.   6028
```

```
## 8 3556 - 36214 RC Andrews Cab          146.    1648
## 9 3591 - 63480 Chuks Cab                193.    1652
## 10 3620 - 52292 David K. Cab Corp.      126.     420
## # ... with 42 more rows
```

```
# mean by company
```

```
data[,mean(Trip.Total),by=Company]
```

```
##              Company          V1
## 1:              Top Cab Affiliation 18.519197
## 2:      Blue Ribbon Taxi Association Inc. 13.999520
## 3:              Taxi Affiliation Services 16.610239
## 4:              Sun Taxi 18.428482
## 5:              Medallion Leasin 19.656913
## 6:              City Service 20.618256
## 7:      Chicago Independents 20.499752
## 8:      Chicago Carriage Cab Corp 16.689448
## 9:      Star North Management LLC 17.963442
## 10:             Flash Cab 17.113360
## 11:             Petani Cab Corp 33.305028
## 12:      Taxicab Insurance Agency, LLC 17.013807
## 13:             Choice Taxi Association 16.263783
## 14:      Patriot Taxi DbA Peace Taxi Associat 17.244195
## 15:      Chicago Medallion Management 13.470327
## 16:             24 Seven Taxi 16.504790
## 17:             KOAM Taxi Association 16.070746
## 18:      312 Medallion Management Corp 24.963273
## 19:      Suburban Dispatch LLC 40.982465
## 20:      Chicago Taxicab 63.869807
## 21:      Nova Taxi Affiliation Llc 14.995876
## 22:      Taxi Affiliation Service Yellow 22.405282
## 23:             Blue Diamond 15.724369
## 24:             Setare Inc 15.899738
## 25:      6743 - 78771 Luhak Corp 13.101604
## 26:             Metro Jet Taxi A 298.146343
## 27:             Leonard Cab Co 15.348714
## 28:      5062 - 34841 Sam Mestas 9.806841
## 29:      4053 - 40193 Adwar H. Nikola 36.594292
## 30:      3011 - 66308 JBL Cab Inc. 12.185342
## 31:             U Taxicab 26.808670
## 32:      3094 - 24059 G.L.B. Cab Co 9.291912
## 33:             5 Star Taxi 26.718756
## 34:      2092 - 61288 Sbeih company 18.034863
## 35:      3556 - 36214 RC Andrews Cab 16.181432
## 36:      6742 - 83735 Tasha ride inc 13.053601
## 37:      1085 - 72312 N and W Cab Co 11.414275
## 38:      2733 - 74600 Benny Jona 33.560011
## 39:      5874 - 73628 Sergey Cab Corp. 20.182059
## 40:      3620 - 52292 David K. Cab Corp. 32.620238
## 41:      4787 - 56058 Reny Cab Co 10.333438
## 42:      Checker Taxi Affiliation 17.969850
## 43:      5006 - 39261 Salifu Bawa 10.943324
## 44:      4623 - 27290 Jay Kim 35.977952
## 45:      6574 - Babylon Express Inc. 17.181725
## 46:      3623 - 72222 Arrington Enterprises 16.751207
```

```
## 47: 3721 - Santamaria Express, Alvaro Santamaria 20.509840
## 48:                3591 - 63480 Chuks Cab 10.363717
## 49:                4523 - 79481 Hazel Transit Inc 27.214103
## 50:                CMT-Sales 1.166667
## 51:                Globe Taxi 20.061017
## 52:                Metro Jet Cab Association Inc. 21.775928
##                                Company V1
```

```
data %>%
  group_by(Company) %>%
  summarise(mean(Trip.Total),n=n())
```

```
## # A tibble: 52 x 3
##   Company                `mean(Trip.Total)`      n
##   <chr>                  <dbl> <int>
## 1 1085 - 72312 N and W Cab Co      11.4   903
## 2 2092 - 61288 Sbeih company      18.0   621
## 3 24 Seven Taxi                 16.5 31615
## 4 2733 - 74600 Benny Jona        33.6   918
## 5 3011 - 66308 JBL Cab Inc.       12.2  2164
## 6 3094 - 24059 G.L.B. Cab Co       9.29   680
## 7 312 Medallion Management Corp    25.0  6028
## 8 3556 - 36214 RC Andrews Cab     16.2  1648
## 9 3591 - 63480 Chuks Cab         10.4  1652
## 10 3620 - 52292 David K. Cab Corp. 32.6   420
## # ... with 42 more rows
```

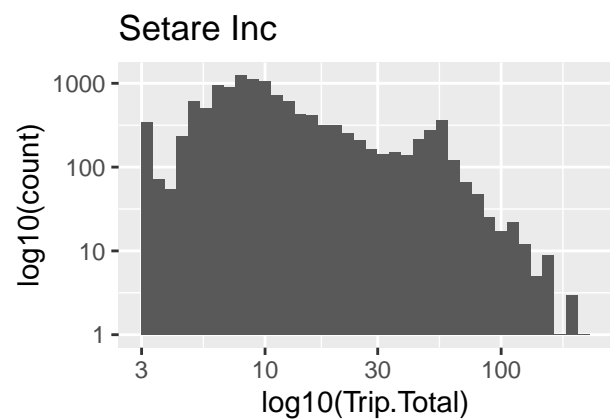
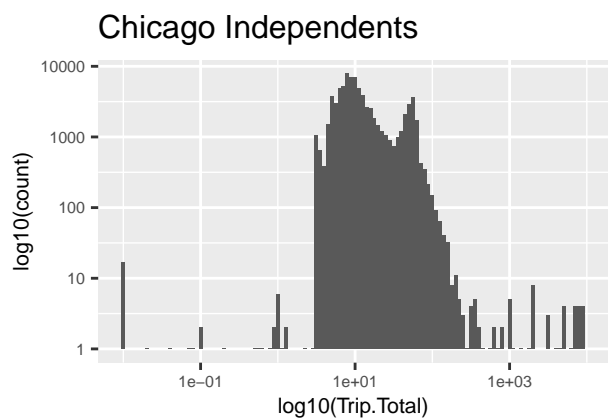
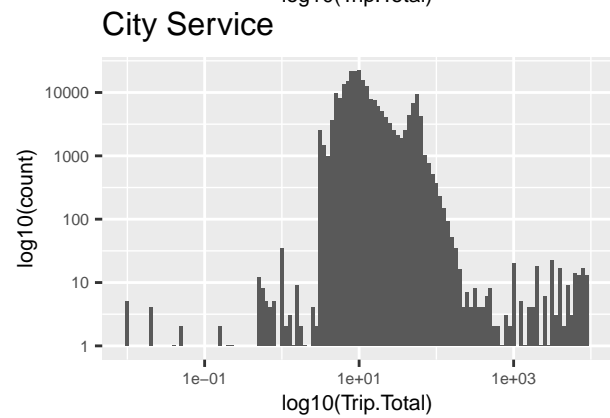
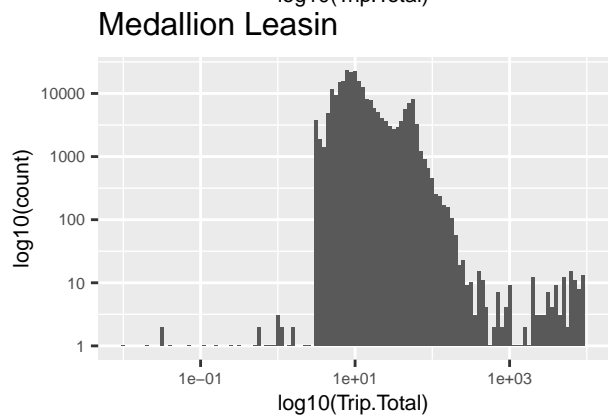
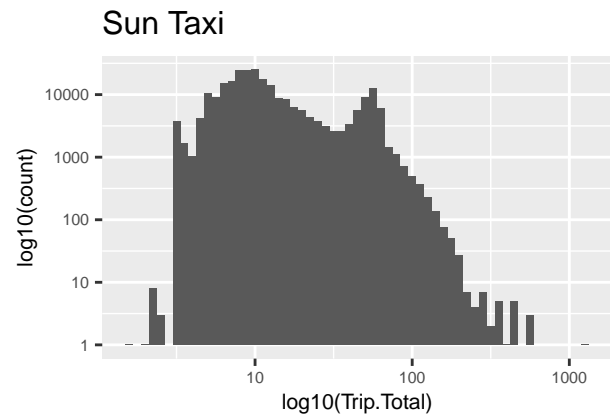
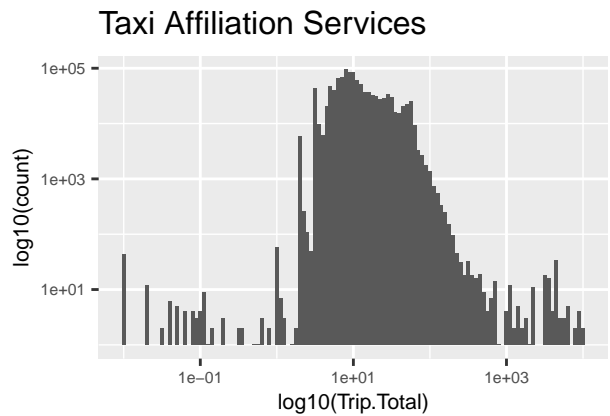
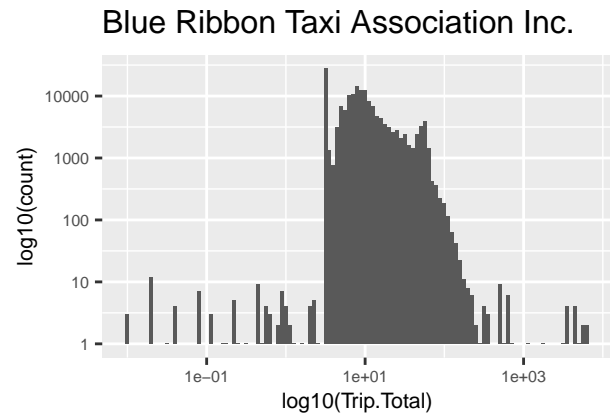
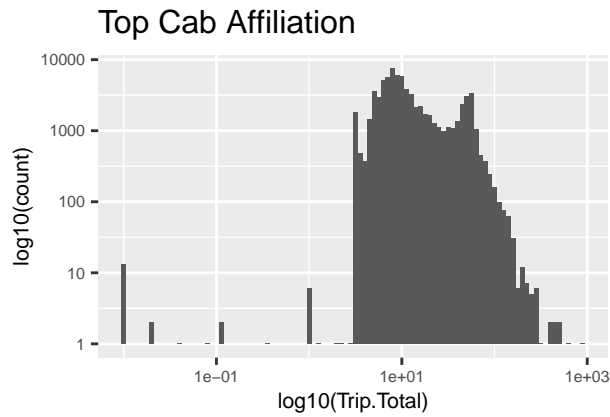
```
# sum by company
data[,sum(Trip.Total),by=Company]
```

```
##                                Company V1
## 1:                Top Cab Affiliation 1376920.85
## 2:      Blue Ribbon Taxi Association Inc. 2272024.13
## 3:                Taxi Affiliation Services 17502940.00
## 4:                Sun Taxi 4669482.48
## 5:                Medallion Leasin 4592051.52
## 6:                City Service 4515996.05
## 7:      Chicago Independents 1588197.76
## 8:      Chicago Carriage Cab Corp 4606638.17
## 9:      Star North Management LLC 2956153.88
## 10:                Flash Cab 15406131.08
## 11:                Petani Cab Corp 53987.45
## 12:      Taxicab Insurance Agency, LLC 2402740.89
## 13:                Choice Taxi Association 1451477.58
## 14:      Patriot Taxi Dba Peace Taxi Associat 669609.33
## 15:                Chicago Medallion Management 119549.15
## 16:                24 Seven Taxi 521798.93
## 17:                KOAM Taxi Association 342081.89
## 18:      312 Medallion Management Corp 150478.61
## 19:                Suburban Dispatch LLC 230075.56
## 20:                Chicago Taxicab 1745242.48
## 21:                Nova Taxi Affiliation Llc 425178.06
## 22:      Taxi Affiliation Service Yellow 50859.99
## 23:                Blue Diamond 13711.65
## 24:                Setare Inc 193452.11
```

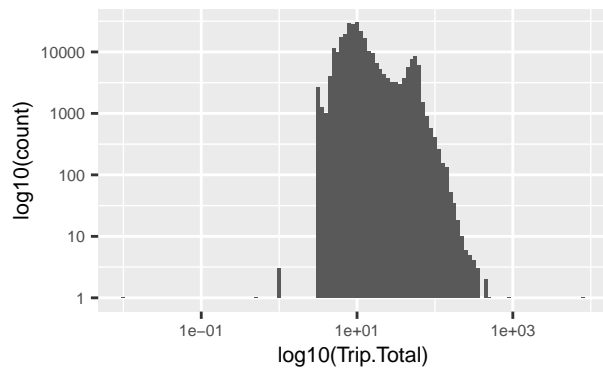
```
## 25:          6743 - 78771 Luhak Corp      13966.31
## 26:          Metro Jet Taxi A    2506218.16
## 27:          Leonard Cab Co      41410.83
## 28:          5062 - 34841 Sam Mestas    11081.73
## 29:          4053 - 40193 Adwar H. Nikola    8526.47
## 30:          3011 - 66308 JBL Cab Inc.    26369.08
## 31:          U Taxicab          408242.43
## 32:          3094 - 24059 G.L.B. Cab Co    6318.50
## 33:          5 Star Taxi        125845.34
## 34:          2092 - 61288 Sbeih company    11199.65
## 35:          3556 - 36214 RC Andrews Cab    26667.00
## 36:          6742 - 83735 Tasha ride inc    8445.68
## 37:          1085 - 72312 N and W Cab Co    10307.09
## 38:          2733 - 74600 Benny Jona    30808.09
## 39:          5874 - 73628 Sergey Cab Corp.    10191.94
## 40:          3620 - 52292 David K. Cab Corp.    13700.50
## 41:          4787 - 56058 Reny Cab Co    5590.39
## 42:          Checker Taxi Affiliation    10781.91
## 43:          5006 - 39261 Salifu Bawa    7802.59
## 44:          4623 - 27290 Jay Kim    20903.19
## 45:          6574 - Babylon Express Inc.    9364.04
## 46:          3623 - 72222 Arrington Enterprises    10268.49
## 47: 3721 - Santamaria Express, Alvaro Santamaria    6399.07
## 48:          3591 - 63480 Chuks Cab    17120.86
## 49:          4523 - 79481 Hazel Transit Inc    3184.05
## 50:          CMT-Sales          7.00
## 51:          Globe Taxi        206307.50
## 52:          Metro Jet Cab Association Inc.    15722.22
##          Company              V1
```

```
data %>%
  group_by(Company) %>%
  summarise(sum(Trip.Total),n=n())
```

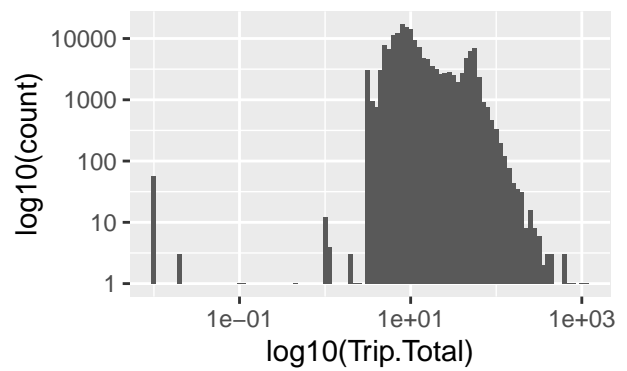
```
## # A tibble: 52 x 3
##   Company                `sum(Trip.Total)`      n
##   <chr>                  <dbl> <int>
## 1 1085 - 72312 N and W Cab Co    10307.    903
## 2 2092 - 61288 Sbeih company    11200.    621
## 3 24 Seven Taxi              521799. 31615
## 4 2733 - 74600 Benny Jona      30808.    918
## 5 3011 - 66308 JBL Cab Inc.    26369.   2164
## 6 3094 - 24059 G.L.B. Cab Co    6318.    680
## 7 312 Medallion Management Corp 150479.   6028
## 8 3556 - 36214 RC Andrews Cab    26667   1648
## 9 3591 - 63480 Chuks Cab      17121.   1652
## 10 3620 - 52292 David K. Cab Corp.    13700.    420
## # ... with 42 more rows
```



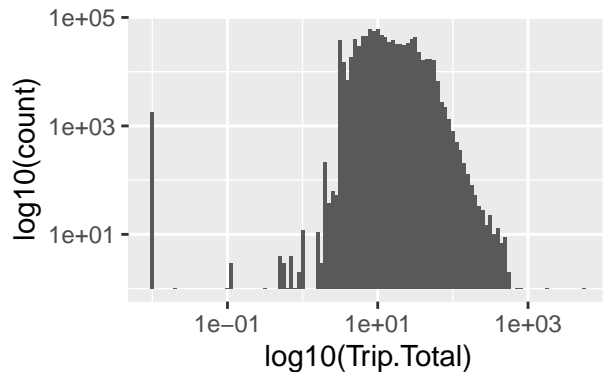
Chicago Carriage Cab Corp



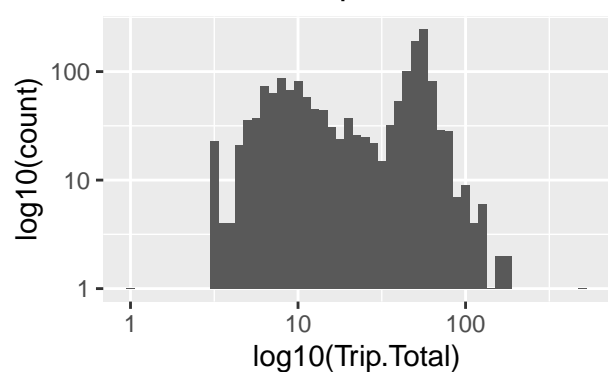
Star North Management LLC



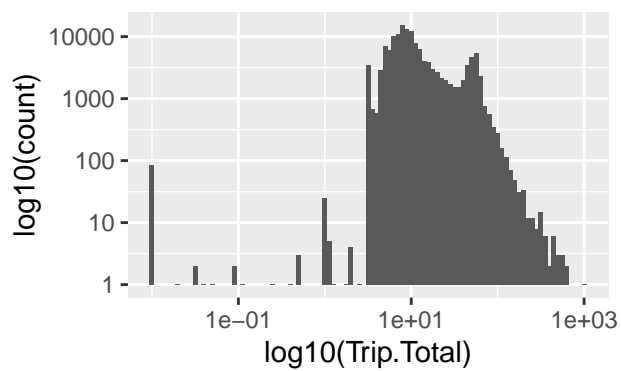
Flash Cab



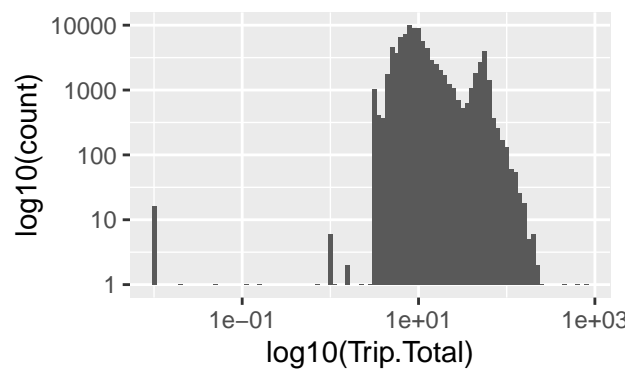
Petani Cab Corp



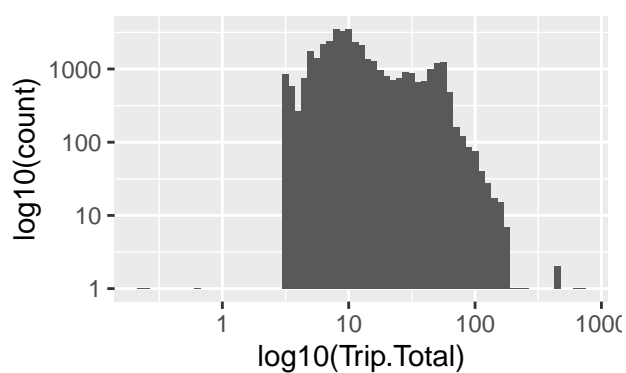
Taxicab Insurance Agency, LLC



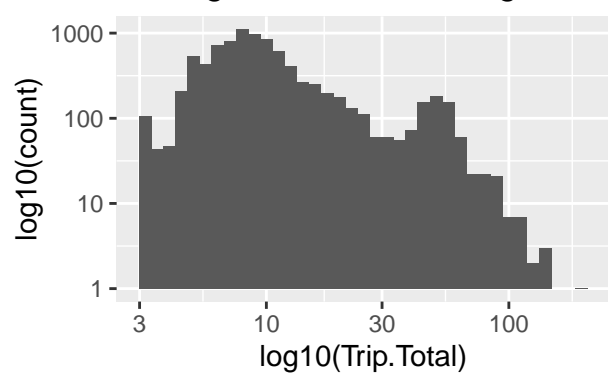
Choice Taxi Association



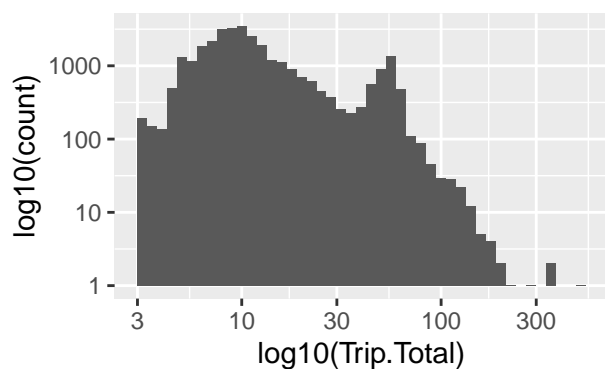
Patriot Taxi DbA Peace Taxi Asso



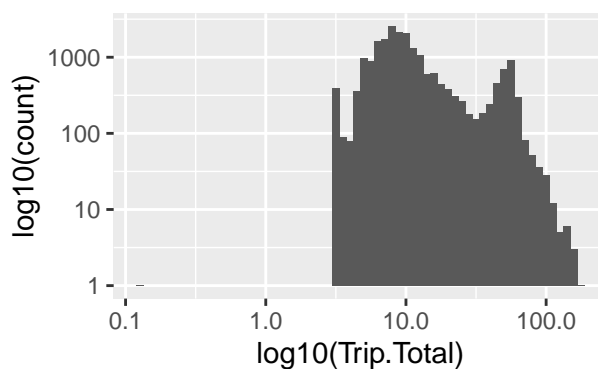
Chicago Medallion Management



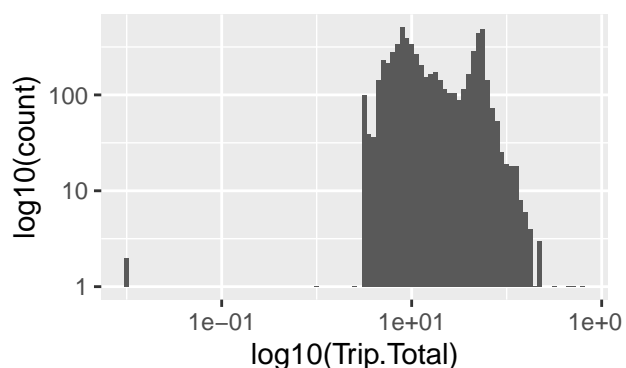
24 Seven Taxi



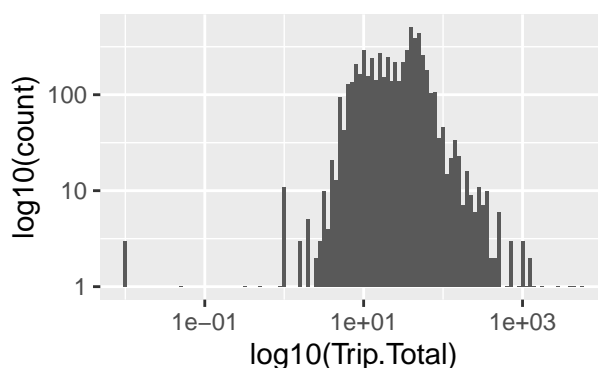
KOAM Taxi Association



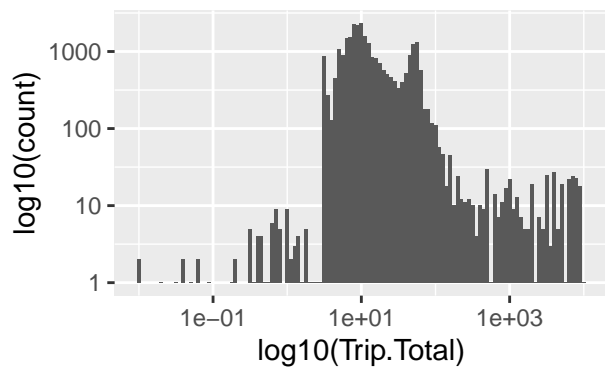
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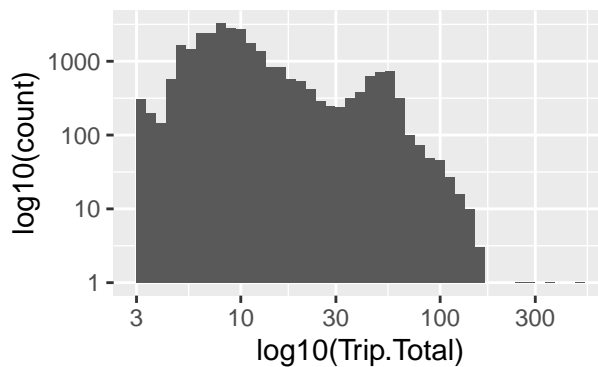
Suburban Dispatch LLC



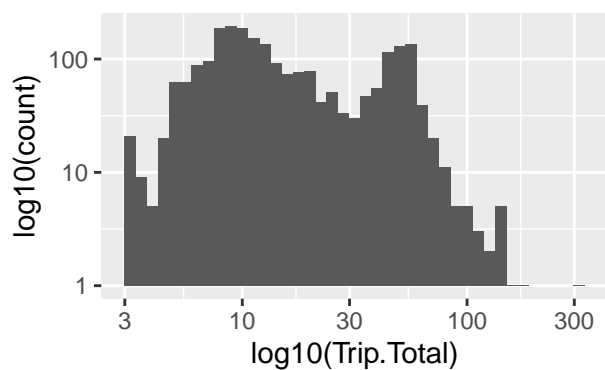
Chicago Taxicab



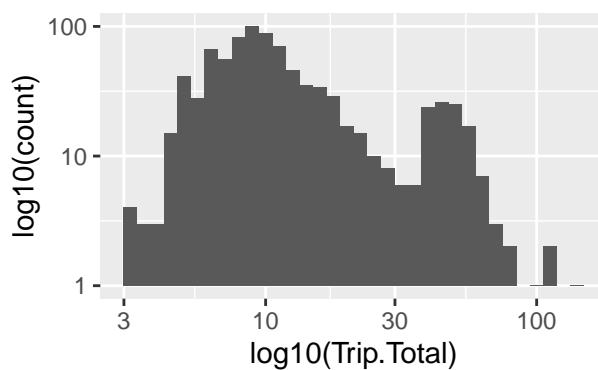
Nova Taxi Affiliation Llc



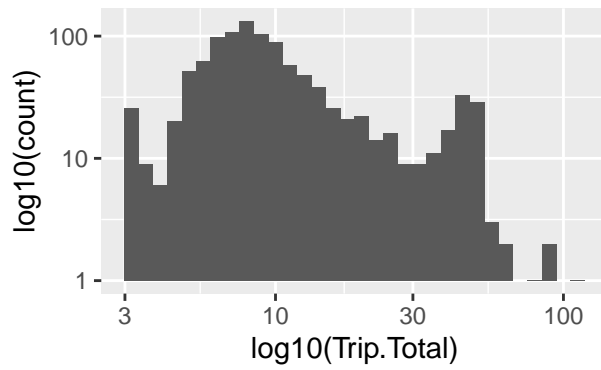
Taxi Affiliation Service Yellow



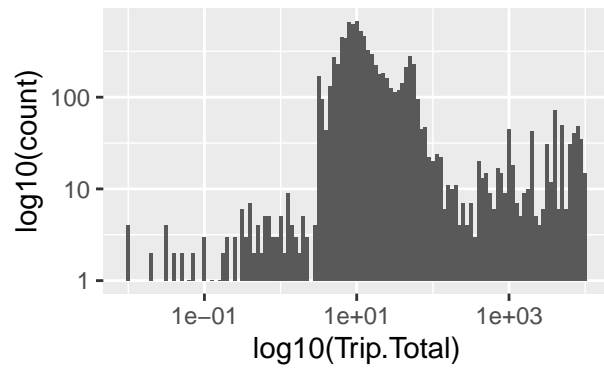
Blue Diamond



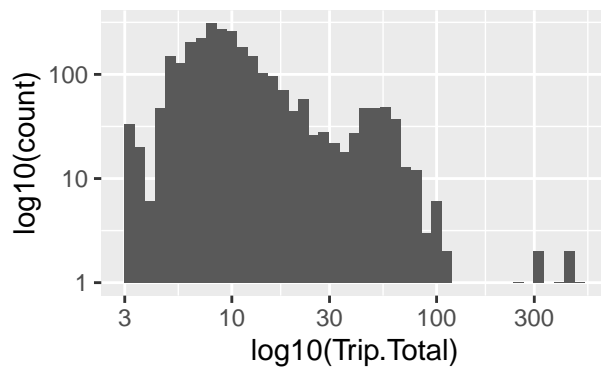
6743 – 78771 Luhak Corp



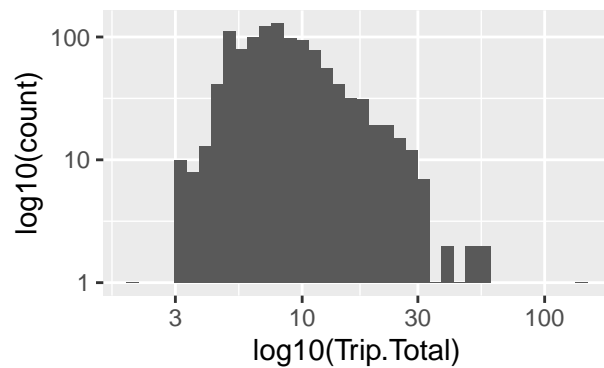
Metro Jet Taxi A



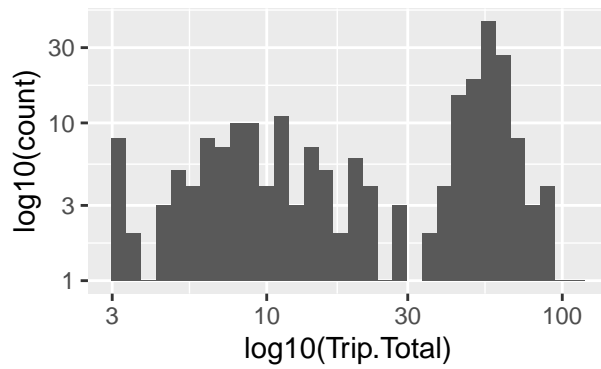
Leonard Cab Co



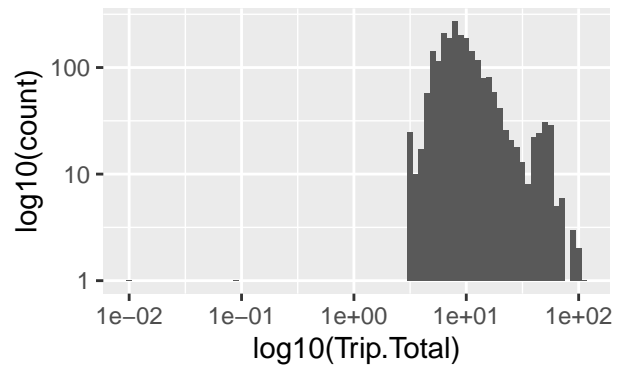
5062 – 34841 Sam Mestas



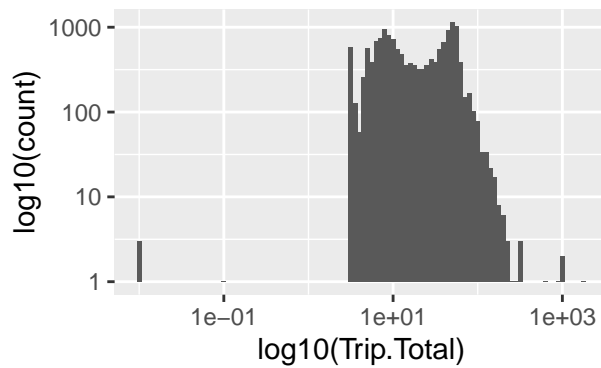
4053 – 40193 Adwar H. Nikola



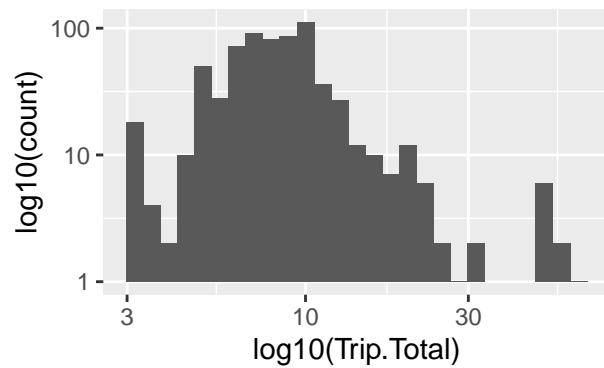
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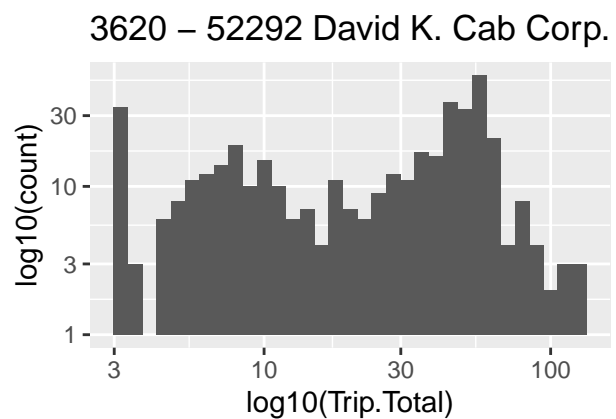
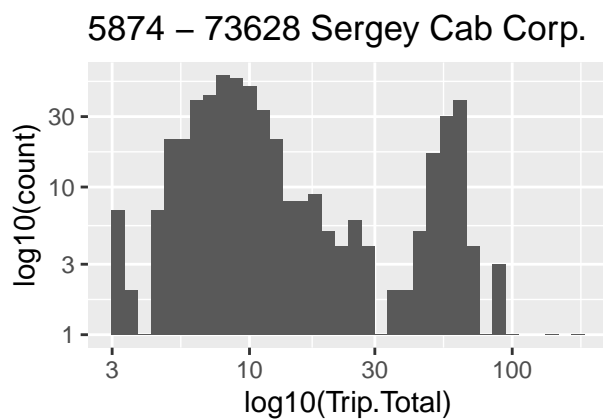
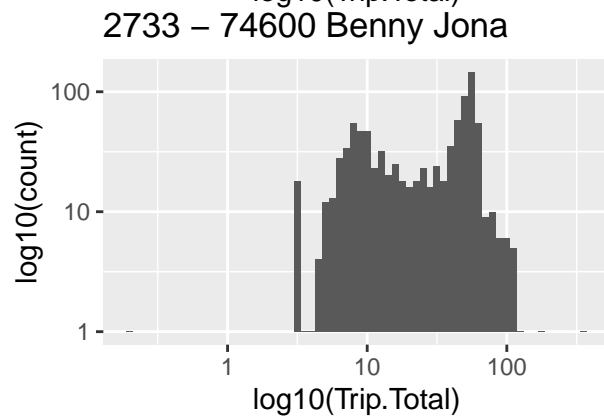
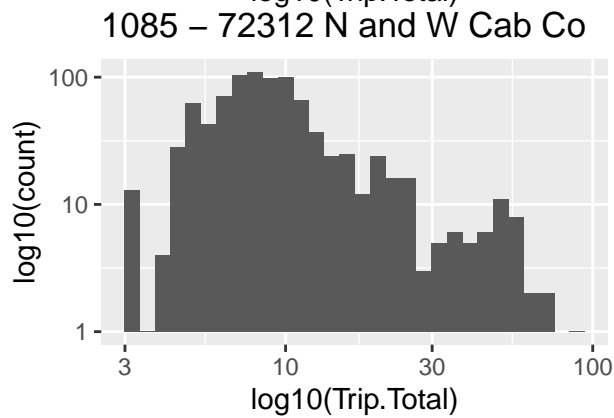
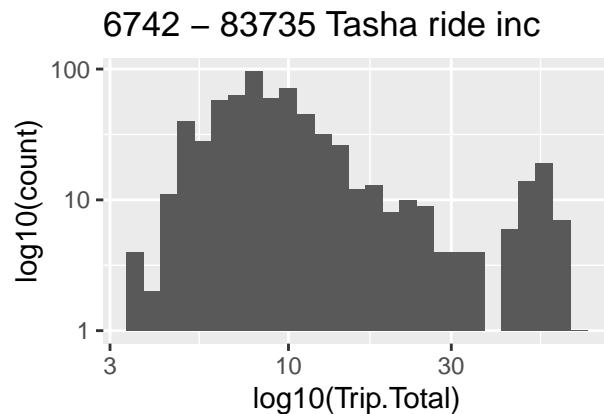
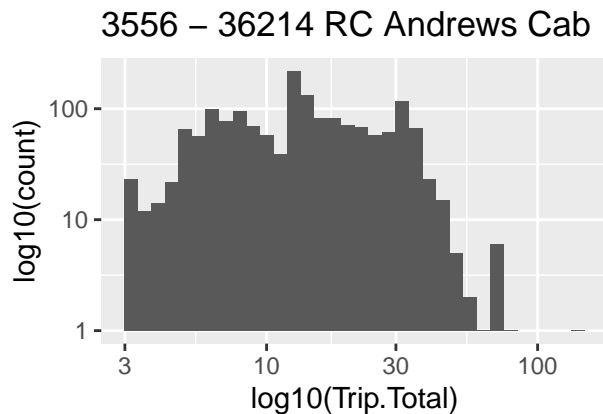
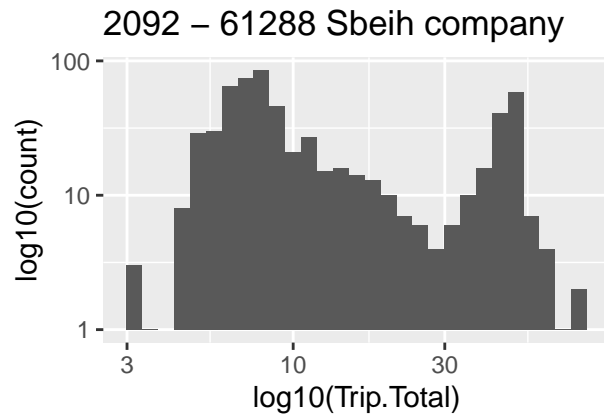
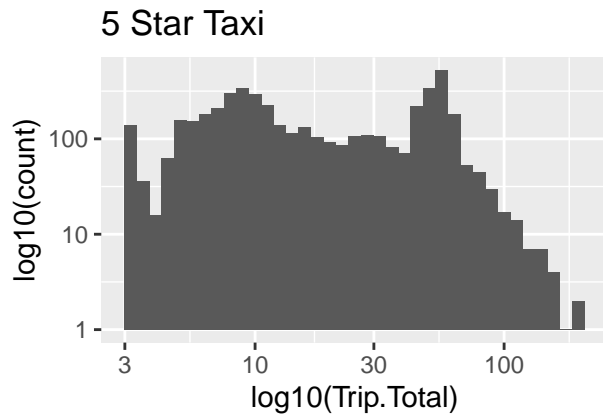


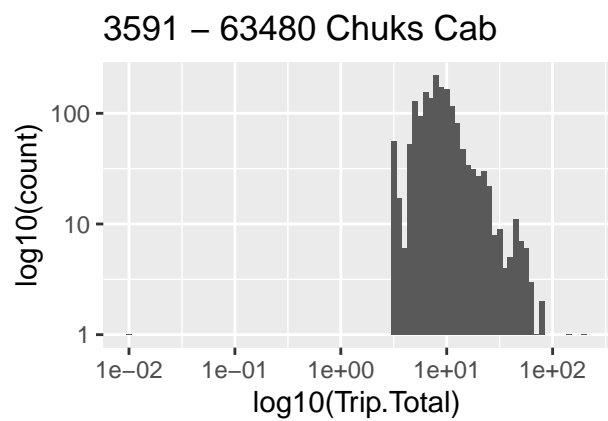
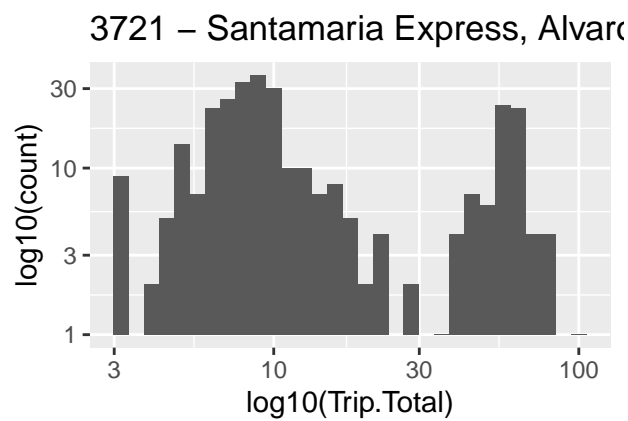
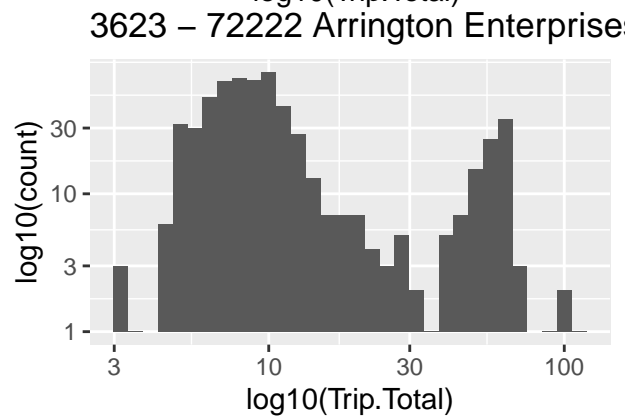
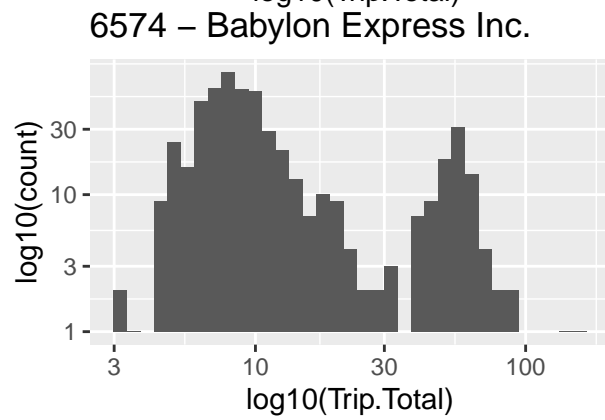
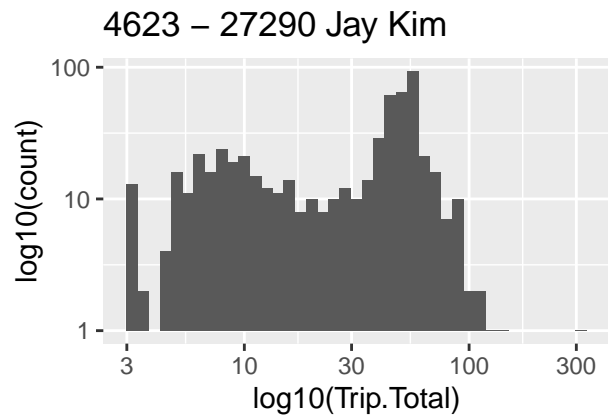
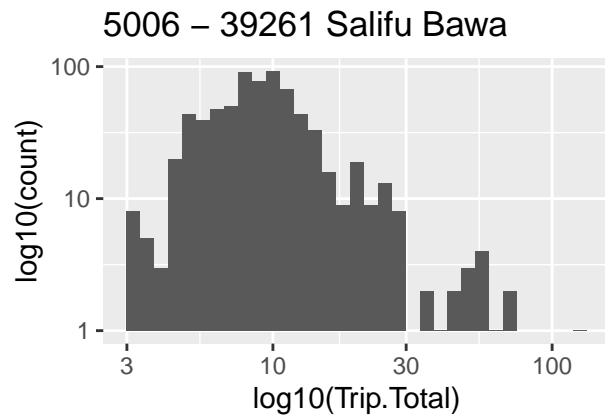
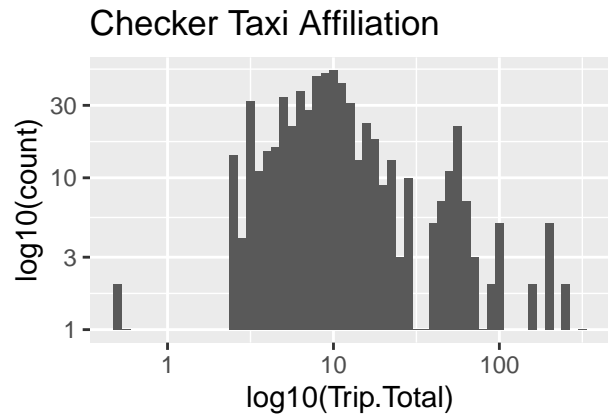
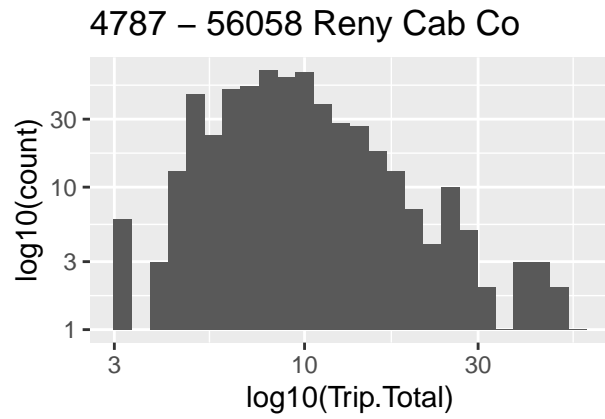
U Taxicab

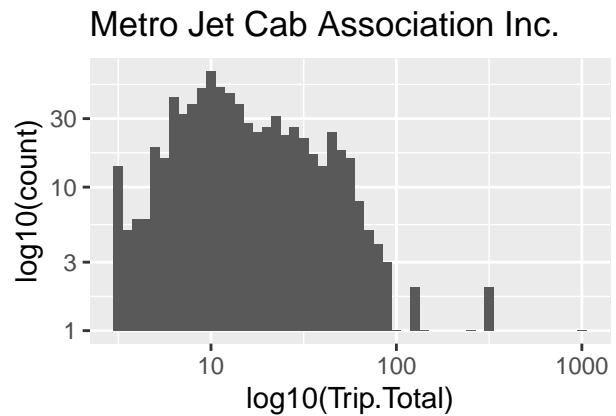
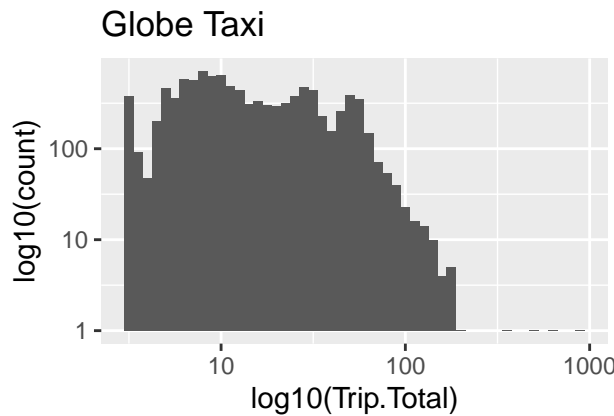
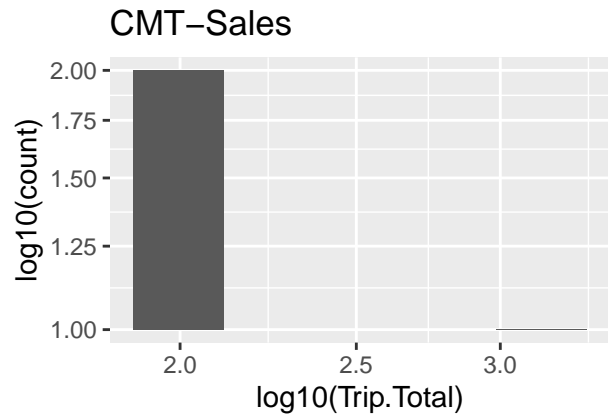
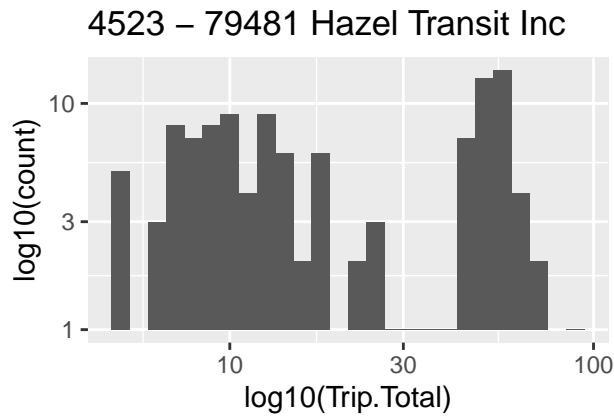


3094 – 24059 G.L.B. Cab Co

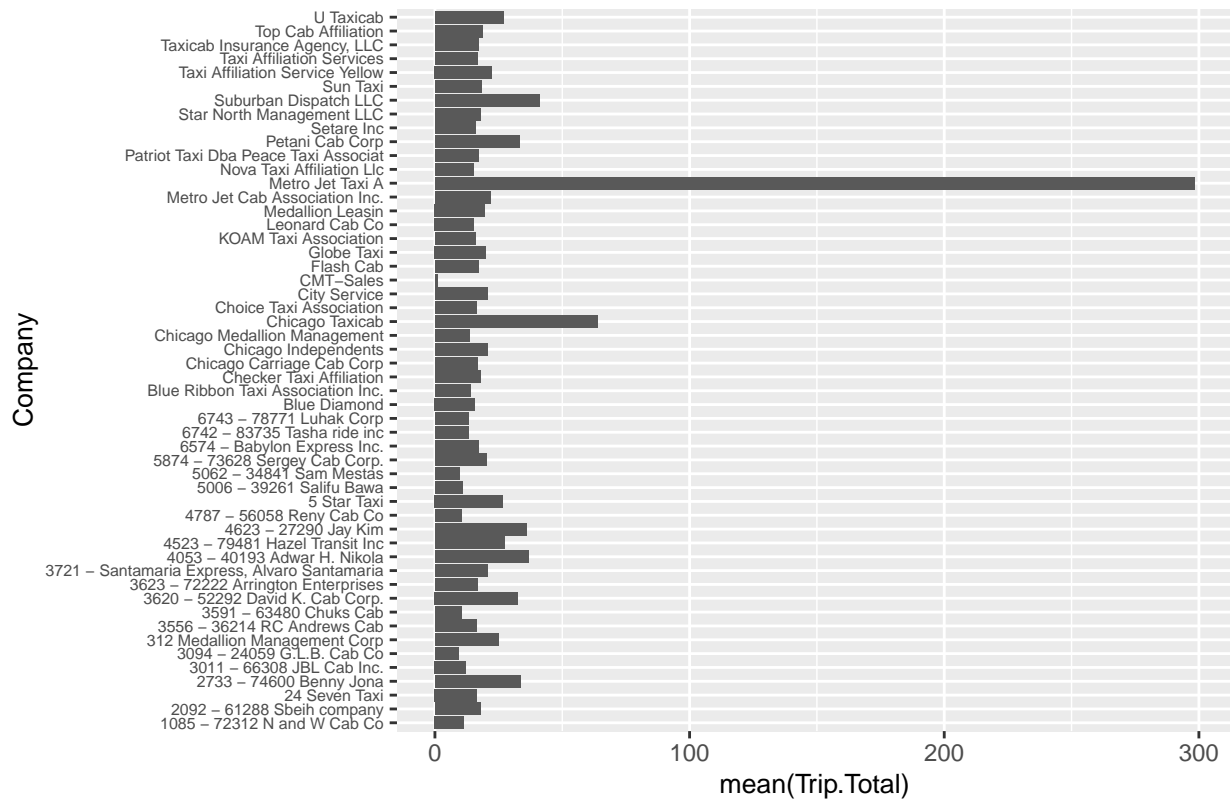




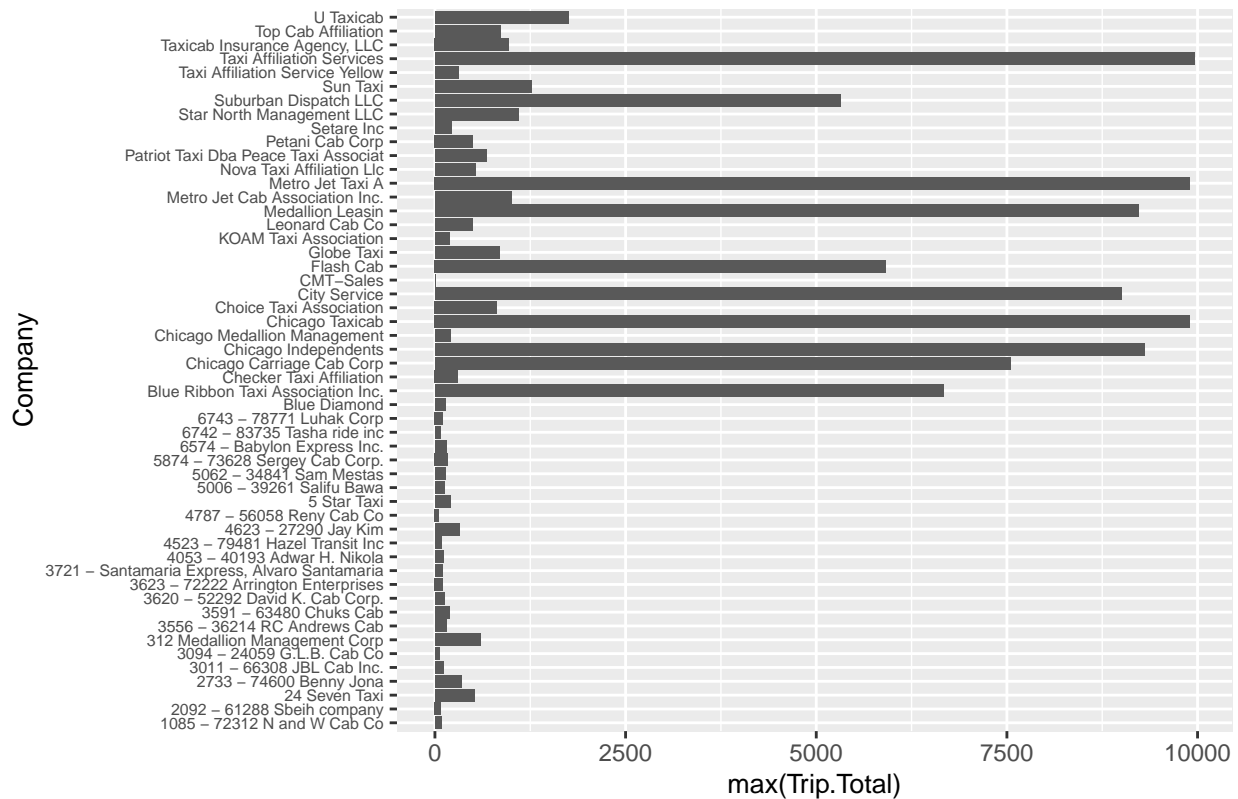




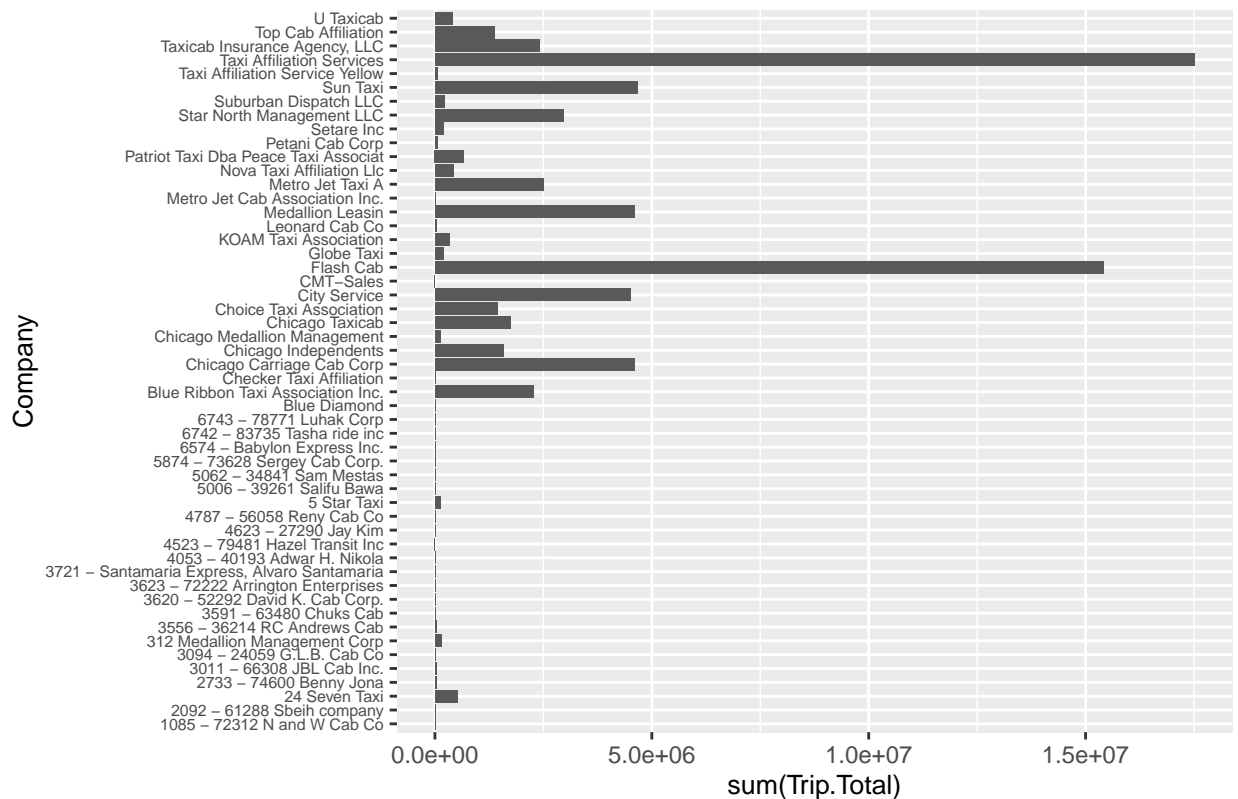
Bar plot of mean(Trip.Total) against each Company



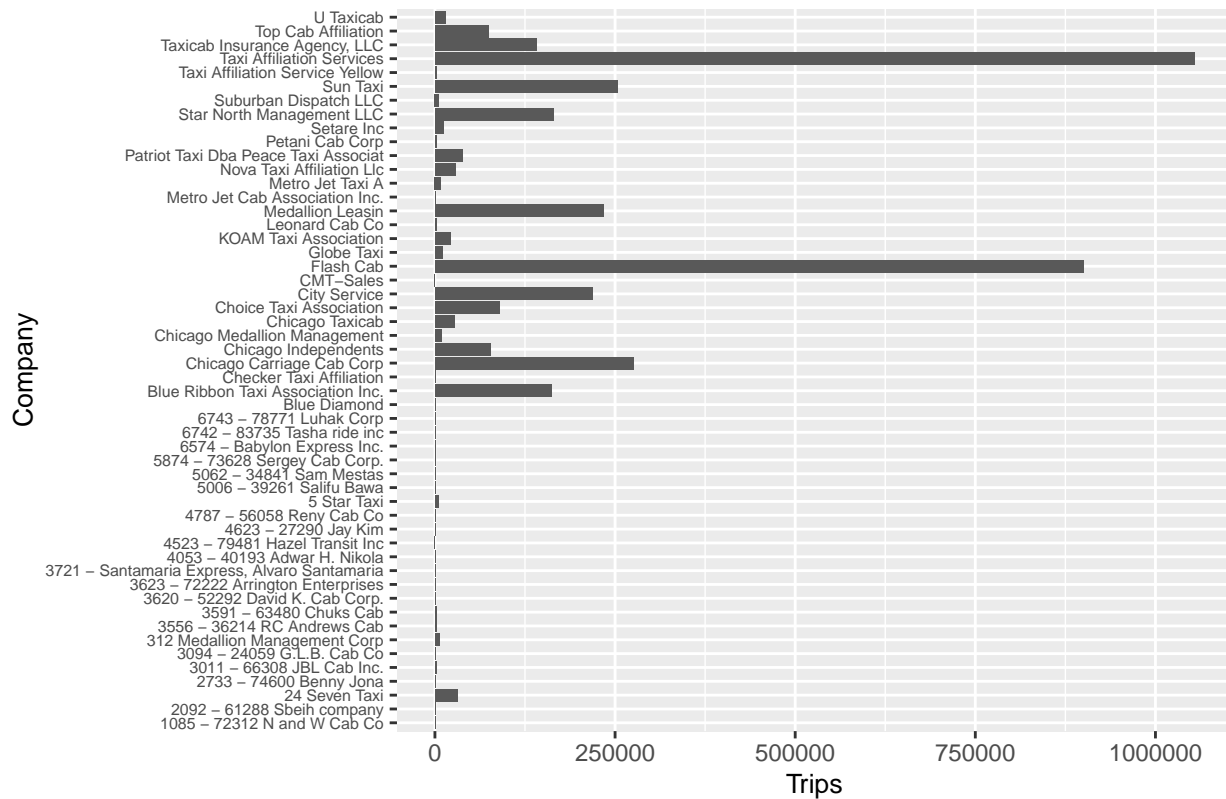
Bar plot of max(Trip.Total) against each Company



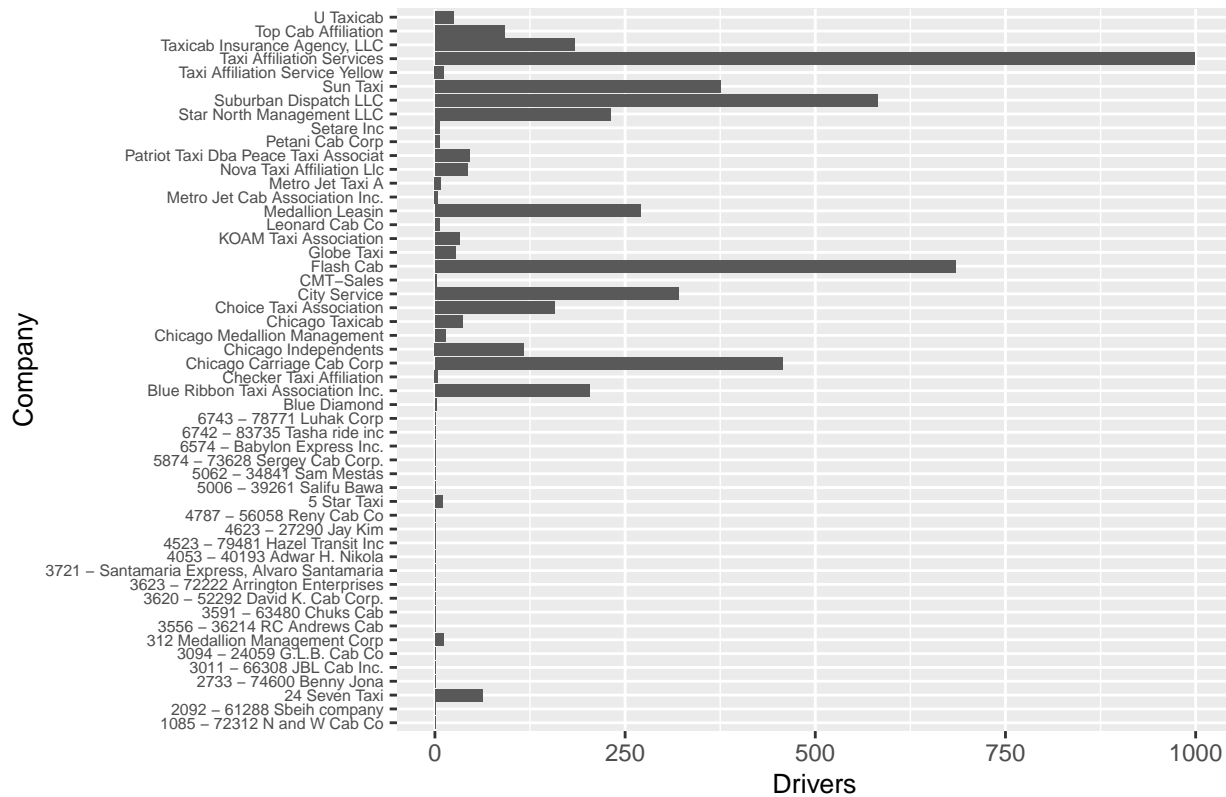
Bar plot of sum(Trip.Total) against each Company



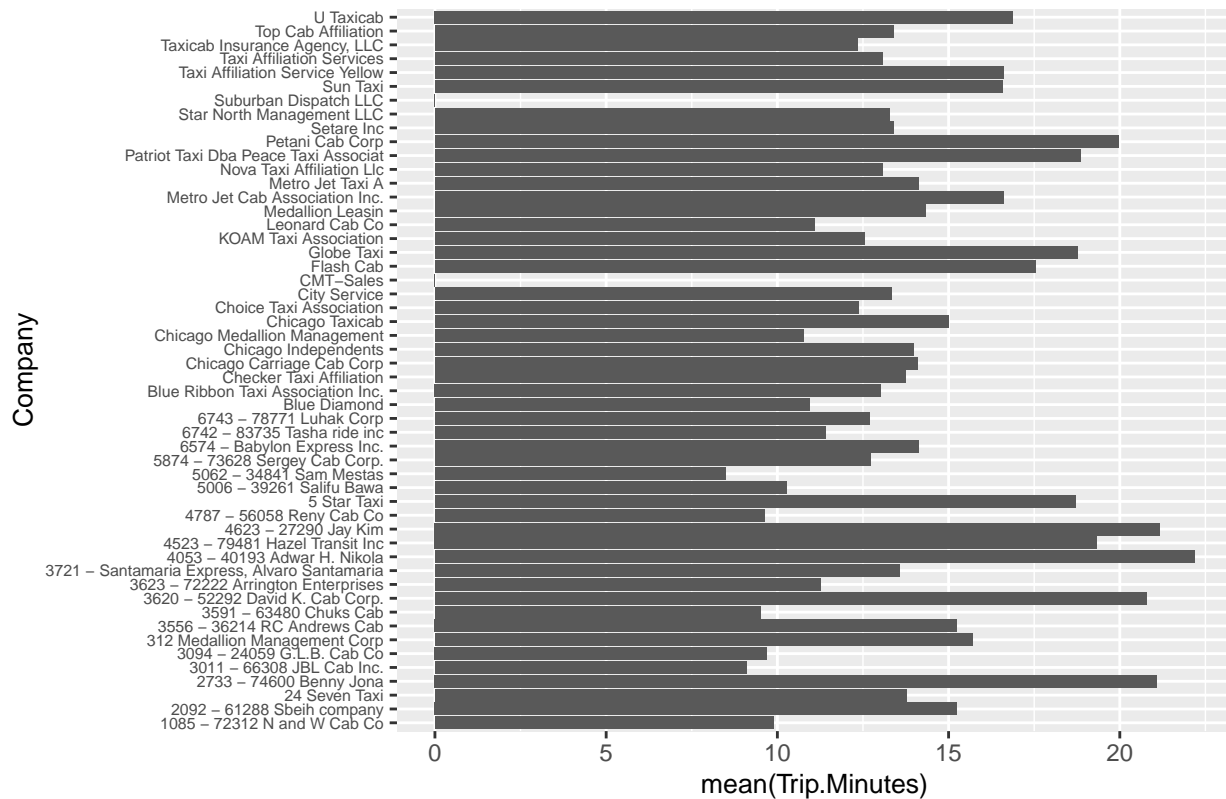
Bar plot of number of trips against each Company



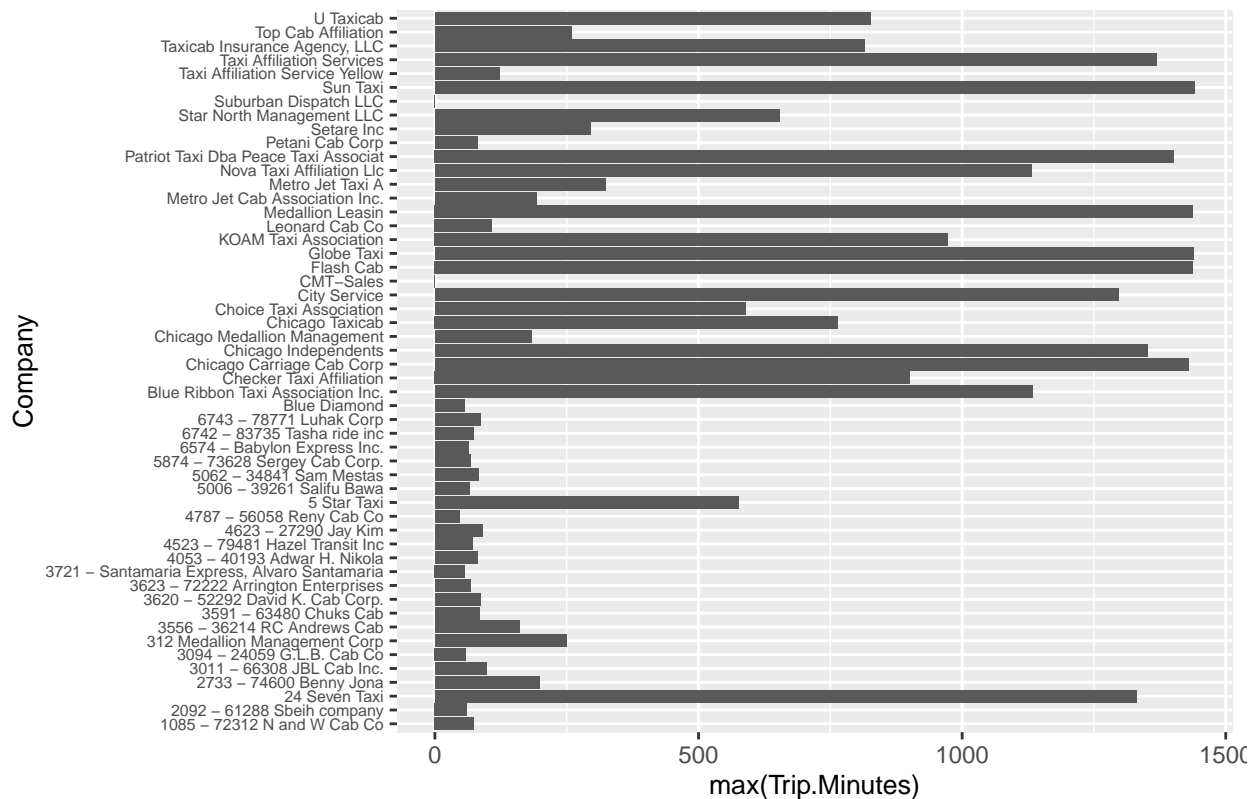
Bar plot of number of drivers against each Company



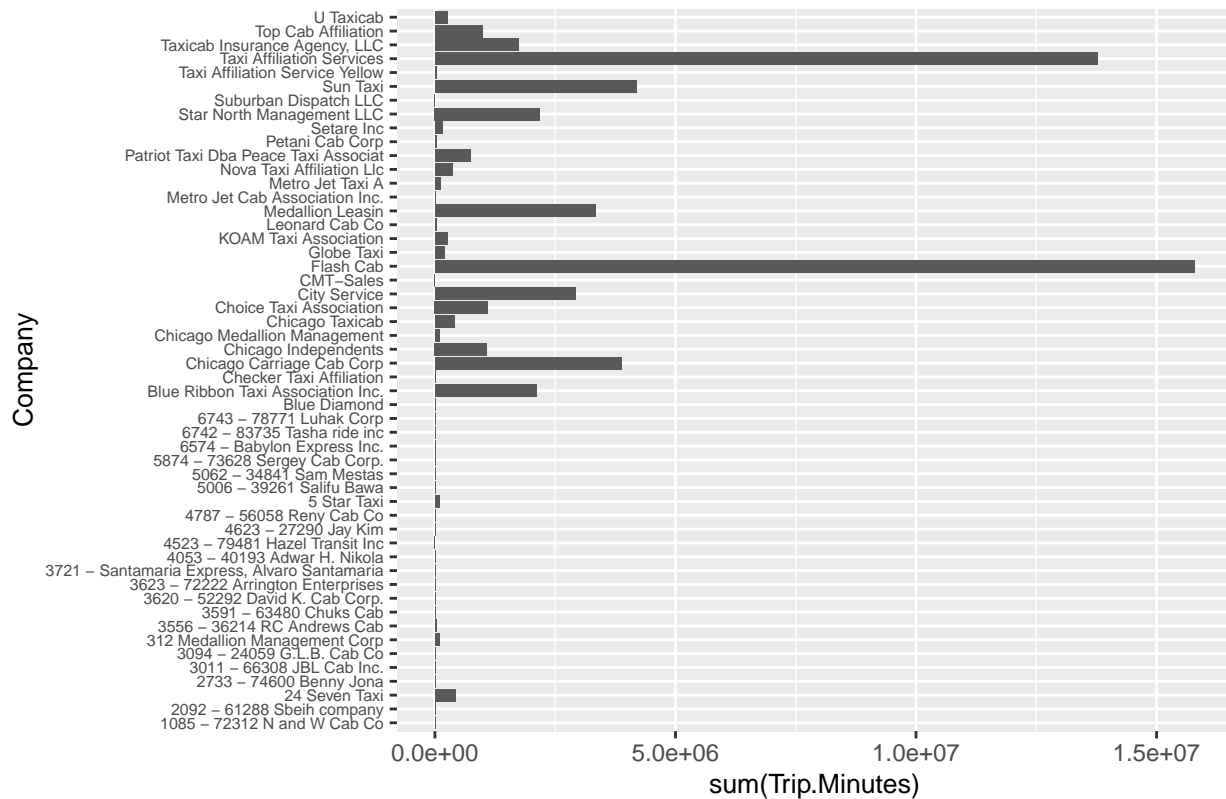
Bar plot of mean of trips time against each Company



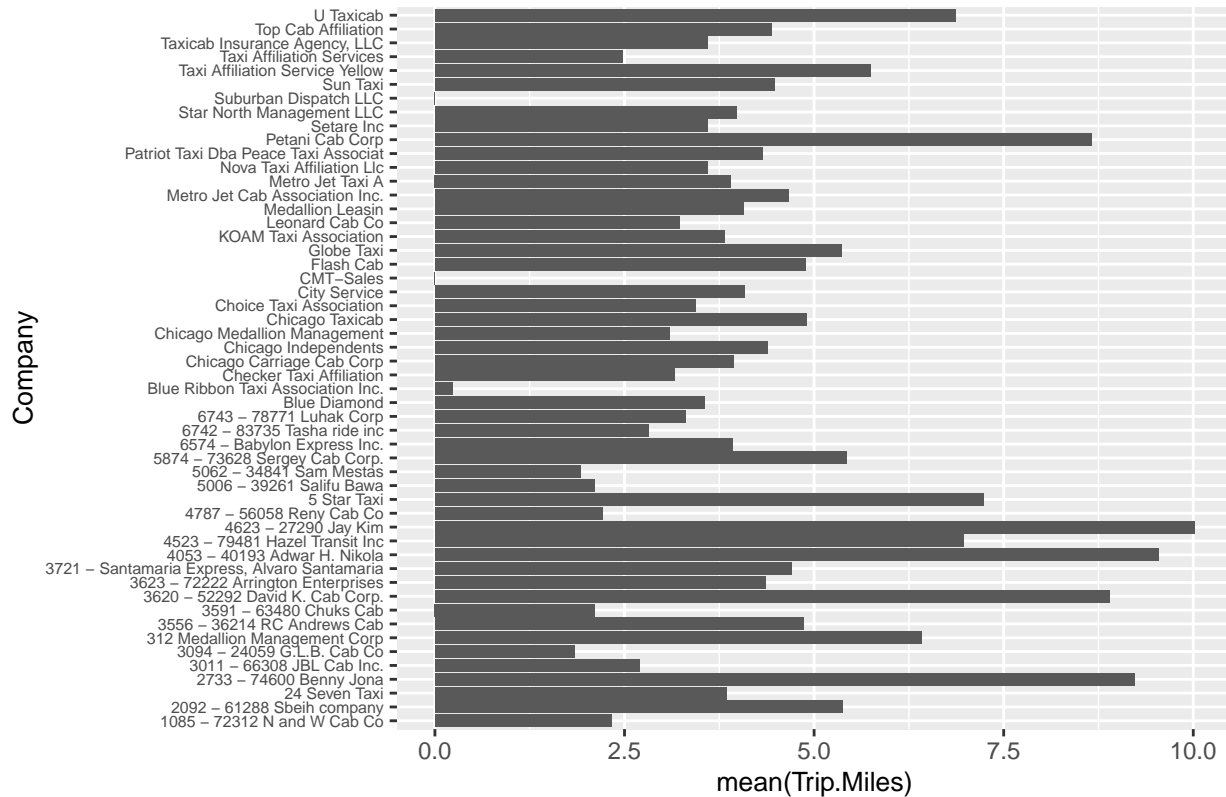
Bar plot of max time of a trip against each Company



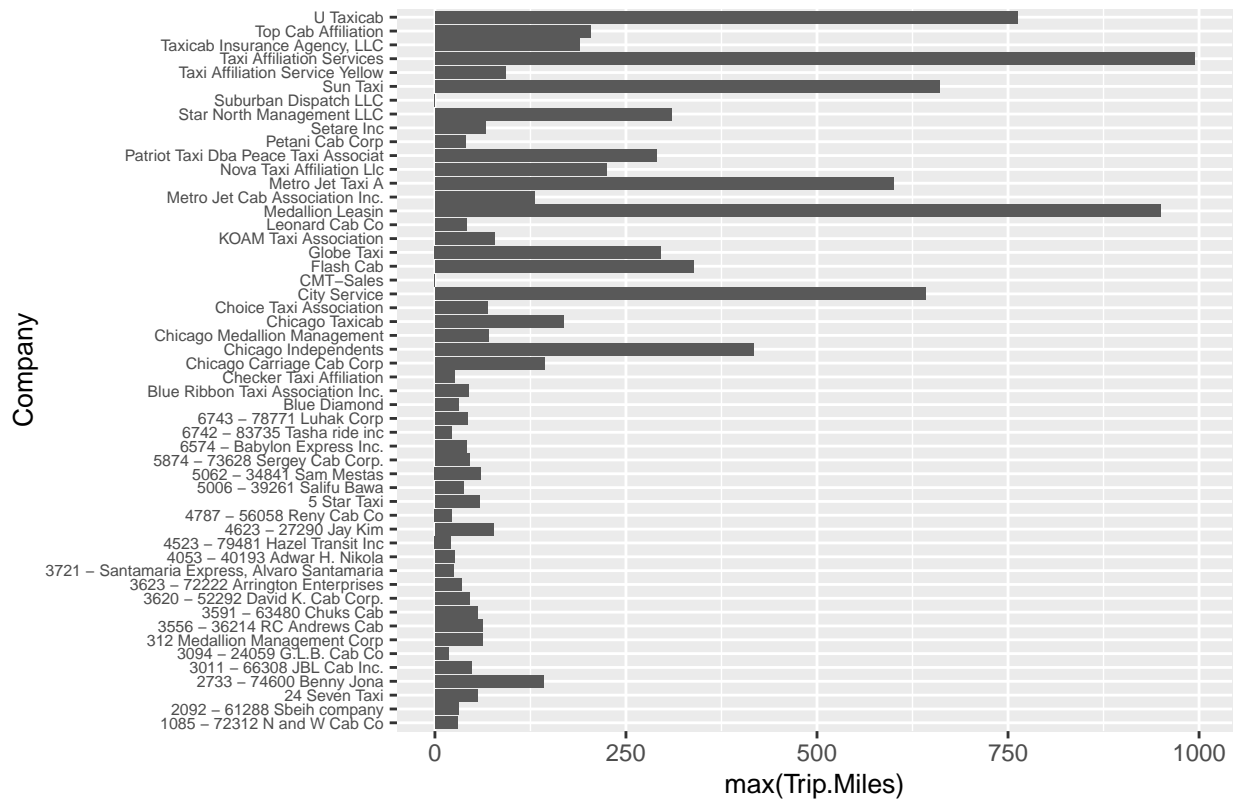
Bar plot of sum of trip time against each Company



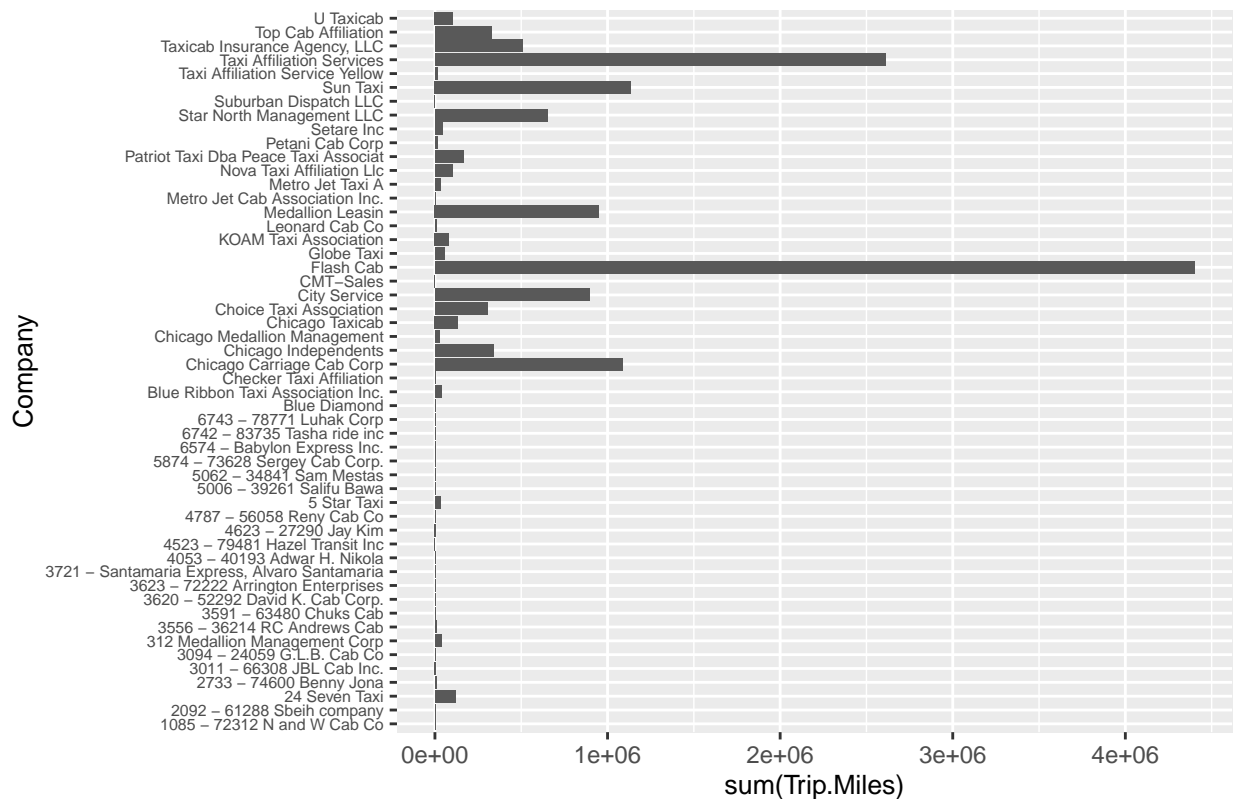
Bar plot of mean of trips miles against each Company



Bar plot of max miles of a trip against each Company



Bar plot of sum miles of trips against each Company



Bar plot of mean Trip.Total divided by Trip.Minutes against ea

