Sprint 3

My Script:

# The start of working with Dirty Data and making it tidy.

> # The data is "real" Excel End of Course Survey data from Survey Monkey from the dates of

> # February 2016 through August 2016

>

> #Getting my working Directory Info

> getwd()

[1] "C:/Users/micha/Documents"

>

> #Setting my working Directory in order to be in the folder where my Dirty Excel file is.

> setwd("C:/Users/micha/Desktop/DevLeague Begins Nov 7 2017/Project\_Sprint\_3/")

>

> #confirming my working directory is correct

> getwd()

[1] "C:/Users/micha/Desktop/DevLeague Begins Nov 7 2017/Project\_Sprint\_3"

>

> #reading my Dirty Excel file into R and then viewing it.

> read.csv("Real\_CSV\_EOC\_Survey.csv")

#creating the variable "Aug\_2016" to represent the "Real\_CSV\_EOC\_Survey.CSV" which is my

> #existing Excel Dirty Data

> Aug\_2016 <- read.csv("Real\_CSV\_EOC\_Survey.csv")

>

>

> #To remove the first column name try this

> Aug\_2016 <- subset( Aug\_2016, select = -Respondent.ID )

>

> #To remove the next column name try this

> Aug\_2016 <- subset( Aug\_2016, select = -Collector.ID )

>

> #To remove this particular column name which isn't next do this

> Aug\_2016 <- subset(Aug\_2016, select = -IP.Address )

>

>

> #To remove this particular column name which isn't next do this

> Aug\_2016 <- subset(Aug\_2016, select = -Email.Address )

>

>

> #To remove this particular column name

> Aug\_2016 <- subset(Aug\_2016, select = -First.Name )

>

> #To remove this particular column name (This is an extra column added by Survey Monkey)

> Aug\_2016 <- subset(Aug\_2016, select = -Last.Name )

>

> #To remove this particular column name (This is an extra column added by Survey Monkey)

> Aug\_2016 <- subset(Aug\_2016, select = -Custom.Data.1 )

>

> #To remove this particular column name (No need to display Student names for this purpose)

> Aug\_2016 <- subset(Aug\_2016, select = -What.is.your.name..optional..)

>

> #To remove this particular column name

> Aug\_2016 <- subset(Aug\_2016, select = -Who.was.your.training.instructor.s..)

>

> #To remove this particular column name (This was an extra column created by Survey Monkey,

> #But this Instructor is no longer with the company)

> Aug\_2016 <- subset(Aug\_2016, select = -X.2)

>

> #To remove this particular column name (This was an extra column created by Survey Monkey,

> #But this Instructor did not teach this particular collection period)

> Aug\_2016 <- subset(Aug\_2016, select = -X.3)

>

> #To remove this particular column name (This was an extra column created by Survey Monkey,

> #But this Person no longer teaches)

> Aug\_2016 <- subset(Aug\_2016, select = -X.5)

>

> #To remove this particular column name (This was an extra column created by Survey Monkey,

> #But this Instructor did not teach this particular collection period)

> Aug\_2016 <- subset(Aug\_2016, select = -X.12)

> View(Aug\_2016)

Wednesday:

Rstudio – installed tidyverse & janitor

install.packages("tidyverse")

library(tidyverse)

install.packages("janitor")

library(janitor)

#below states there are 491 observations (rows) and 71 variables (Columns)

|  |
| --- |
| str(Sprint\_3)  'data.frame': 491 obs. of 71 variables:  $ Respondent.ID : num NA 4.93e+09 4.93e+09 4.93e+09 4.93e+09 ...  $ Collector.ID : int NA 49249489 49249489 49249489 49249489 49249489 49249489 49249489 49249489 49249489 ...  $ Start.Date : Factor w/ 479 levels "","2016-02-05 4:47:38",..: 1 479 478 477 476 475 473 474 472 471 ...  $ End.Date : Factor w/ 484 levels "","2016-02-05 4:49:19",..: 1 484 483 481 482 480 479 478 477 476 ...  $ IP.Address : Factor w/ 96 levels "","103.21.154.19",..: 1 88 57 88 88 88 88 88 88 88 ...  $ Email.Address : logi NA NA NA NA NA NA ...  $ First.Name : logi NA NA NA NA NA NA ...  $ Last.Name : logi NA NA NA NA NA NA ...  $ Custom.Data.1 : logi NA NA NA NA NA NA ...  $ What.is.your.name..optional.. : Factor w/ 386 levels ""," Karen Ploof",..: 283 41 324 255 81 34 260 1 293 364 ...  $ Which.company.do.you.represent. : Factor w/ 248 levels ""," Challenge Networks",..: 136 72 71 68 71 68 73 68 74 68 ...  $ Where.did.you.attend.the.training.course. : Factor w/ 10 levels "","Accession Meeting - Online",..: 10 7 7 7 7 7 7 7 8 7 ...  $ X : Factor w/ 63 levels "","AIS Building , Bangkok ,Thailand",..: 42 1 1 1 1 1 1 1 24 1 ...  $ What.training.course.did.you.attend. : Factor w/ 18 levels "Advanced Translations",..: 15 8 8 8 8 8 8 8 8 8 ...  $ X.1 : Factor w/ 40 levels "","ACCELERATED PERIMETA",..: 23 1 1 1 1 1 1 1 1 1 ...  $ Who.was.your.training.instructor.s.. : Factor w/ 2 levels "","Dave Brooks": 2 1 1 1 1 1 1 1 1 1 ...  $ X.2 : Factor w/ 2 levels "","Dave Capece": 2 1 1 1 1 1 1 1 1 1 ...  $ X.3 : Factor w/ 2 levels "","Estella Chesneau": 2 1 1 1 1 1 1 1 1 1 ...  $ X.4 : Factor w/ 2 levels "","Genaro Islas": 2 1 1 1 1 1 1 1 1 1 ...  $ X.5 : Factor w/ 2 levels "","Gerard Moreira": 2 1 1 1 1 1 1 1 1 1 ...  $ X.6 : Factor w/ 2 levels "","Jim Pellegrini": 2 1 1 1 1 1 1 1 1 1 ...  $ X.7 : Factor w/ 2 levels "","Jake Livingstone": 2 1 1 1 1 1 1 1 1 1 ...  $ X.8 : Factor w/ 2 levels "","Jason Anderson": 2 1 1 1 1 1 1 1 1 1 ...  $ X.9 : Factor w/ 2 levels "","Dr. Michael Allen": 2 2 2 2 2 2 2 2 2 2 ...  $ X.10 : Factor w/ 2 levels "","Phil Aird": 2 1 1 1 1 1 1 1 1 1 ...  $ X.11 : Factor w/ 2 levels "","Sunny Carter": 2 1 1 1 1 1 1 1 1 1 ...  $ X.12 : Factor w/ 2 levels "","Jimmy Murthi": 2 1 1 1 1 1 1 1 1 1 ...  $ X.13 : Factor w/ 2 levels "","John Newbery": 2 1 1 1 1 1 1 1 1 1 ...  $ X.14 : Factor w/ 2 levels "","Laurence Carr": 2 1 1 1 1 1 1 1 1 1 ...  $ X.15 : Factor w/ 2 levels "","Graham Weeks": 2 1 1 1 1 1 1 1 1 1 ...  $ X.16 : Factor w/ 2 levels "","Matthew Llewellyn-Jones": 2 1 1 1 1 1 1 1 1 1 ...  $ X.17 : Factor w/ 2 levels "","Carlos Simoni": 2 1 1 1 1 1 1 1 1 1 ...  $ X.18 : Factor w/ 4 levels "","and Jason Anderson fo parts of the course ",..: 3 1 1 1 1 1 1 1 1 1 ...  $ The.instructor.s.lecture.was.delivered.clearly.and.effectively. : Factor w/ 5 levels "","Agree","Disagree",..: 4 5 5 5 5 5 5 2 5 5 ...  $ X.19 : Factor w/ 55 levels "","Although Jim is continously moving during the lecture, it is obvious he is very knowledgable and passionate about the product.",..: 6 30 1 1 24 1 18 1 1 1 ...  $ The.instructor.was.responsive.to.my.questions. : Factor w/ 5 levels "","Agree","Disagree",..: 4 5 5 5 5 5 5 5 5 5 ...  $ X.20 : Factor w/ 52 levels "","All questions asked was explained to my satisfaction.",..: 7 1 1 1 1 1 1 1 1 1 ...  $ The.technical.details.in.the.course.were.appropriate.for.my.learning..If.you.Disagree.or.Strongly.Disagree..please.also.mark.if.it.was.Too.Much.or.Too.Little..: Factor w/ 2 levels "","Strongly Agree": 2 1 2 2 2 2 2 2 2 1 ...  $ X.21 : Factor w/ 2 levels "","Agree": 2 2 1 1 1 1 1 1 1 2 ...  $ X.22 : Factor w/ 2 levels "","Disagree": 2 1 1 1 1 1 1 1 1 1 ...  $ X.23 : Factor w/ 2 levels "","Strongly Disagree": 2 1 1 1 1 1 1 1 1 1 ...  $ X.24 : Factor w/ 2 levels "","Too Much": 2 1 1 1 1 1 1 1 1 1 ...  $ X.25 : Factor w/ 2 levels "","Too Little": 2 1 1 1 1 1 1 1 1 1 ...  $ X.26 : Factor w/ 50 levels "","Again there was a lot of remedial content, if you are attending this course you should already have a pretty go"| \_\_truncated\_\_,..: 7 1 1 1 1 1 1 1 1 1 ...  $ The.Student.Guide.was.organized.and.easy.to.use. : Factor w/ 6 levels "","Agree","Disagree",..: 4 5 5 5 5 5 5 5 5 5 ...  $ X.27 : Factor w/ 33 levels "","A few items in the student guide needed to be updated but they were covered before class started the first day. ",..: 6 1 1 1 1 1 1 1 1 1 ...  $ The.Lab.Exercises.were.relevant.and.useful.to.my.learning. : Factor w/ 6 levels "","Agree","Disagree",..: 4 5 5 5 5 5 5 5 5 5 ...  $ X.28 : Factor w/ 53 levels "","Again a bit more time to really concentrate on the Lab would be more useful.",..: 4 1 1 1 1 1 1 1 1 1 ...  $ The.classroom.was.comfortable..examples..not.too.hot..not.too.cold..not.too.noisy..etc... : Factor w/ 5 levels "","Agree","Disagree",..: 4 2 5 3 5 5 2 3 2 2 ...  $ X.29 : Factor w/ 53 levels "","AC quit one day but was repaired in a timely manner.",..: 7 1 1 8 1 1 17 45 1 1 ...  $ The.computer.I.used.worked.sufficiently.to.perform.the.hands.on.lab.exercises. : Factor w/ 6 levels "","Agree","Disagree",..: 4 2 5 5 3 5 5 5 5 2 ...  $ X.30 : Factor w/ 37 levels "","A bit slow at times",..: 3 1 1 1 8 1 1 1 1 1 ...  $ The.network.connectivity.and.speed.was.satisfactory.for.my.learning. : Factor w/ 6 levels "","Agree","Disagree",..: 4 2 5 5 5 5 5 5 5 2 ...  $ X.31 : Factor w/ 28 levels "","A bit slow at times",..: 3 1 1 1 1 1 1 1 1 1 ...  $ I.could.adequately.see.and.hear.the.presentation. : Factor w/ 5 levels "","Agree","Disagree",..: 4 5 5 5 5 5 5 5 5 5 ...  $ X.32 : Factor w/ 18 levels "","Although the overhead projector was somewhat noisy and distracting at times.",..: 3 1 1 1 1 1 1 1 1 1 ...  $ How.many.total.years.of.experience.do.you.have.working.in.a.technical.discipline..i.e...Telecommunications..IT..IP..Computer.Information.Systems.. : Factor w/ 7 levels "","Eleven to Twenty Years",..: 5 4 7 7 6 2 4 6 7 4 ...  $ X.33 : Factor w/ 13 levels "","15+","34 years",..: 9 1 1 1 1 1 1 1 1 1 ...  $ Is.your.background.rooted.in.IP.Networking.or.Telephony. : Factor w/ 6 levels "","Both IP and Telephony",..: 5 6 3 3 3 2 3 3 6 2 ...  $ X.34 : Factor w/ 18 levels "","Business Administration",..: 5 1 1 1 1 1 1 1 1 1 ...  $ I.had.the.knowledge.and.or.skills.required.to.attend.this.course. : Factor w/ 6 levels "","Agree","Disagree",..: 4 2 5 5 5 5 5 5 2 5 ...  $ X.35 : Factor w/ 27 levels "","A lot of technical information that I am unfamiliar with. Lots of stuff \"over my head\".",..: 4 6 1 1 1 1 1 1 1 1 ...  $ Prior.to.attending.this.course..how.much.experience.did.you.have.working.with.any.of.your.Metaswitch.equipment. : Factor w/ 7 levels "","12 to 23 months",..: 7 6 6 6 2 2 3 4 3 3 ...  $ X.36 : Factor w/ 35 levels "","basically no experience up to this point.",..: 3 8 1 1 1 1 1 1 1 1 ...  $ Do.you.think.you.attended.this.class.at.the.appropriate.time.in.relation.to.your.experience.on.your.Metaswitch.equipment...If.No..please.comment. : Factor w/ 4 levels "","No","Response",..: 3 2 4 4 4 4 4 4 4 4 ...  $ X.37 : Factor w/ 74 levels ""," No my over-view class was 3yrs ago.",..: 9 41 1 1 1 1 1 1 1 1 ...  $ I.learned.what.I.needed.to.learn.in.this.training.course. : Factor w/ 6 levels "","Agree","Disagree",..: 4 5 5 5 5 5 5 5 2 5 ...  $ X.38 : Factor w/ 45 levels "","Actually I learned a lot of more than originally needed",..: 8 1 1 1 1 1 1 1 1 1 ...  $ Given.your.experience.in.this.class..would.you.recommend.this.course.to.your.colleagues. : Factor w/ 4 levels "","No","Response",..: 3 4 4 4 4 4 4 4 4 4 ...  $ X.39 : Factor w/ 41 levels "","A lot of great material covered that helps the overall understanding of the system and how we can improve our o"| \_\_truncated\_\_,..: 8 1 1 1 1 1 1 1 1 1 ...  $ Is.there.any.other.feedback.or.suggestions.you.would.like.to.offer.regarding.any.aspect.of.your.experience.with.your.Metaswitch.training. : Factor w/ 190 levels ""," Thank you",..: 139 1 21 1 50 1 1 125 1 1 ... |
|  |
| |  | | --- | | >  # Summary Command is as Follows: Gives Distribution of Each Column including Mean / Max /  summary(Sprint\_3)  Respondent.ID Collector.ID Start.Date End.Date IP.Address  Min. :4.491e+09 Min. :49249489 2016-04-08 2:43:12: 3 2016-02-26 5:35:13: 2 50.155.215.143: 96  1st Qu.:4.557e+09 1st Qu.:49249489 2016-02-05 4:56:00: 2 2016-03-04 4:56:48: 2 205.196.119.4 : 68  Median :4.718e+09 Median :49249489 2016-02-12 5:07:18: 2 2016-04-29 4:18:13: 2 187.216.195.71: 35  Mean :4.706e+09 Mean :49249489 2016-02-26 5:05:45: 2 2016-05-06 6:47:54: 2 192.91.191.162: 28  3rd Qu.:4.831e+09 3rd Qu.:49249489 2016-03-04 6:23:34: 2 2016-05-13 7:49:01: 2 64.58.50.180 : 11  Max. :4.934e+09 Max. :49249489 2016-03-10 6:09:35: 2 2016-05-20 3:33:46: 2 72.252.9.12 : 11  NA's :1 NA's :1 (Other) :478 (Other) :479 (Other) :242  Email.Address First.Name Last.Name Custom.Data.1 What.is.your.name..optional..  Mode:logical Mode:logical Mode:logical Mode:logical : 82  NA's:491 NA's:491 NA's:491 NA's:491 Itzel Rivera : 4  Alan Martin : 2  Andy : 2  Armando Palma: 2  Bill : 2  (Other) :397  Which.company.do.you.represent. Where.did.you.attend.the.training.course. X  : 33 On-site at my Company Location:189 :418  Windstream : 29 Denver (DTC) :100 Bethpage, NY : 3  TELCEL : 13 Other (please specify) : 72 Cablevision - Bethpage: 3  Cablevision : 12 Dallas (DRTC) : 66 Phoenix : 3  Telcel : 11 Enfield : 32 Mexico : 2  Bluegrass Cellular: 10 : 11 Mexico City : 2  (Other) :383 (Other) : 21 (Other) : 60  What.training.course.did.you.attend. X.1  Perimeta SBC Deployment & Troubleshooting:123 :419  System Overview : 82 Windstream NOC Training : 18  Other (please specify) : 71 Perimeta Advanced : 5  HPBX Deployment & Troubleshooting : 59 Windstream NOC training : 5  Perimeta SBC Accelerated Deployment : 24 REDtone – Introduction to HPBX: 4  Advanced Translations : 22 any other course : 2  (Other) :110 (Other) : 38  Who.was.your.training.instructor.s.. X.2 X.3 X.4 X.5  :490 :490 :490 :398 :490  Dave Brooks: 1 Dave Capece: 1 Estella Chesneau: 1 Genaro Islas: 93 Gerard Moreira: 1            X.6 X.7 X.8 X.9 X.10  :476 :397 :397 :386 :463  Jim Pellegrini: 15 Jake Livingstone: 94 Jason Anderson: 94 Dr. Michael Allen:105 Phil Aird: 28            X.11 X.12 X.13 X.14 X.15  :459 :490 :484 :481 :481  Sunny Carter: 32 Jimmy Murthi: 1 John Newbery: 7 Laurence Carr: 10 Graham Weeks: 10            X.16 X.17  :490 :452  Matthew Llewellyn-Jones: 1 Carlos Simoni: 39            X.18  :488  and Jason Anderson fo parts of the course : 1  Someone Else : 1  Very good instructor, he kept the group engaged and did a great job of presenting.: 1        The.instructor.s.lecture.was.delivered.clearly.and.effectively.  : 13  Agree :120  Disagree : 8  Response : 1  Strongly Agree:349      X.19  :437  Although Jim is continously moving during the lecture, it is obvious he is very knowledgable and passionate about the product. : 1  Always enjoy Dr. Allen when I get to see him. : 1  At times, the lecture would go off on a tangent subject and wouldn't focus on the topic at hand. Diagrams that were drawn on the board really helped in visualizing the content.: 1  Clear reading of the slides, did not really help my learning. : 1  Comments : 1  (Other) : 49  The.instructor.was.responsive.to.my.questions.  : 15  Agree : 86  Disagree : 4  Response : 1  Strongly Agree:385      X.20  :440  All questions asked was explained to my satisfaction. : 1  and boy did i have some that were stupid. The instructor was good about explaining things to us that we were having a hard time comprehending. We were still able to keep the pace up: 1  And very patient and helpful. : 1  Answered all questions thoroughly : 1  Both were great at answering questions of those in class and making sure everyone was learning the material as best as possible during the class. : 1  (Other) : 46  The.technical.details.in.the.course.were.appropriate.for.my.learning..If.you.Disagree.or.Strongly.Disagree..please.also.mark.if.it.was.Too.Much.or.Too.Little..  :286  Strongly Agree:205            X.21 X.22 X.23 X.24 X.25  :244 :473 :490 :489 :477  Agree:247 Disagree: 18 Strongly Disagree: 1 Too Much: 2 Too Little: 14            X.26  :442  Again there was a lot of remedial content, if you are attending this course you should already have a pretty good base knowledge telecom. : 1  Agree - Once we got to the technical details of the actual course material (Perimeta SBC) : 1  Appreciate Mike working with us to change content around to meet our needs. : 1  Class was above my technical expertise but Jake brought me up to speed. : 1  Coming in with zero translations experience it was very detailed : 1  (Other) : 44  The.Student.Guide.was.organized.and.easy.to.use.  : 21  Agree :218  Disagree : 8  Response : 1  Strongly Agree :241  Strongly Disagree: 2    X.27  :459  A few items in the student guide needed to be updated but they were covered before class started the first day. : 1  A few slides need updating. One of the first slides on the first day was outdated. Please make sure to correct them before the next class.: 1  At several times, labs did not match what needed to be entered into the equipment to obtain expected results. : 1  Can't remember there was a student guide : 1  Comments : 1  (Other) : 27  The.Lab.Exercises.were.relevant.and.useful.to.my.learning.  : 18  Agree :193  Disagree : 8  Response : 1  Strongly Agree :270  Strongly Disagree: 1    X.28  :439  Again a bit more time to really concentrate on the Lab would be more useful. : 1  Although the class was overbooked and I had to share a computer, I was still able to follow along.: 1  Comments : 1  Enjoyed them and learned more from them, then the class. Again I am hands on : 1  Honestly this was the best part of the course. : 1  (Other) : 47  The.classroom.was.comfortable..examples..not.too.hot..not.too.cold..not.too.noisy..etc...  : 19  Agree :260  Disagree : 22  Response : 1  Strongly Agree:189      X.29  :439  AC quit one day but was repaired in a timely manner. : 1  AC went down for a day and it was 83 degrees in the class room : 1  AC went out first part of week, Jason bought fans to cool it down the rest of the week. : 1  At was at my home, so yes Strongly comfortable : 1  Classroom was supplied by our company (onsite). : 1  (Other) : 47  The.computer.I.used.worked.sufficiently.to.perform.the.hands.on.lab.exercises.  : 25  Agree :195  Disagree : 6  Response : 1  Strongly Agree :261  Strongly Disagree: 3    X.30  :455  A bit slow at times : 1  Comments : 1  Company computer work's slow : 1  Computer worked well. : 1  Domain login requirement and software installation and configuration restrictions caused problems (GCI problem): 1  (Other) : 31  The.network.connectivity.and.speed.was.satisfactory.for.my.learning. X.31  : 20 :464  Agree :199 A bit slow at times : 1  Disagree : 9 Comments : 1  Response : 1 EN OCASIONES SE ALENTABA PERO RARAMENTE: 1  Strongly Agree :260 Ended up using my own laptop. : 1  Strongly Disagree: 2 Good network connectivity. : 1  (Other) : 22  I.could.adequately.see.and.hear.the.presentation.  : 19  Agree :153  Disagree : 3  Response : 1  Strongly Agree:315      X.32  :474  Although the overhead projector was somewhat noisy and distracting at times. : 1  Comments : 1  Especially with the aid of being able to view the presentations on my computer. : 1  I can hear the instructors fine, but when a student asks questions it is very difficult to hear. It would be best for the instructors to reiterate the questions before answering them especially when students are not projecting their voices.: 1  I did have to get closer to see some the monitors : 1  (Other) : 12  How.many.total.years.of.experience.do.you.have.working.in.a.technical.discipline..i.e...Telecommunications..IT..IP..Computer.Information.Systems..  : 19  Eleven to Twenty Years :183  Less than One Year : 12  One to Five Years : 60  Response : 1  Six to Ten Years : 89  Twenty One or More Years:127  X.33 Is.your.background.rooted.in.IP.Networking.or.Telephony.  :479 : 20  15+ : 1 Both IP and Telephony:180  34 years : 1 IP : 71  37 Years : 1 Neither : 33  37+ years : 1 Response : 1  38 year in Telecommunications: 1 Telephony :186  (Other) : 7  X.34 I.had.the.knowledge.and.or.skills.required.to.attend.this.course.  :474 : 19  Business Administration : 1 Agree :265  but have to wk with IP alot : 1 Disagree : 20  But I am working be even better at my IP ;): 1 Response : 1  Comment : 1 Strongly Agree :185  Dabble in both : 1 Strongly Disagree: 1  (Other) : 12  X.35  :465  A lot of technical information that I am unfamiliar with. Lots of stuff "over my head". : 1  At WorldNet, we already have MVW installed, so the course was very easy to follow. : 1  Comments : 1  First look at Metaswitch : 1  I am new to IP/routing/networking and this class was a bit over my head. However, the instructor was aware. He did a marvelous job teaching us all.: 1  (Other) : 21  Prior.to.attending.this.course..how.much.experience.did.you.have.working.with.any.of.your.Metaswitch.equipment.  : 23  12 to 23 months : 67  2 to 5 years : 63  3 to 11 months :116  6 or more years : 20  Less than 3 months:201  Response : 1  X.36  :456  none : 2  basically no experience up to this point. : 1  Comments : 1  Extremely on and off for the past 6 months. : 1  I've actually never worked directly on our Metaswitch.: 1  (Other) : 29  Do.you.think.you.attended.this.class.at.the.appropriate.time.in.relation.to.your.experience.on.your.Metaswitch.equipment...If.No..please.comment.  : 17  No : 72  Response: 1  Yes :401        X.37  :418  No my over-view class was 3yrs ago. : 1  6 to 8 months earlier would have been better. : 1  Any training for Metaswitch is helpful. : 1  As with Q11 : 1  But that's not Metaswitch's fault. I would have preferred to go sooner.: 1  (Other) : 68  I.learned.what.I.needed.to.learn.in.this.training.course.  : 18  Agree :262  Disagree : 17  Response : 1  Strongly Agree :192  Strongly Disagree: 1    X.38  :447  Actually I learned a lot of more than originally needed : 1  Add a translations troubleshooting portion : 1  Again, I wish questions by the students were handled in more of an encouraging manner by the instructor. I would have gotten more from the class, more comfortable with the content.: 1  Along with the extensive online information. I think so. : 1  Already attended this course : 1  (Other) : 39  Given.your.experience.in.this.class..would.you.recommend.this.course.to.your.colleagues.  : 22  No : 10  Response: 1  Yes :458        X.39  :451  A lot of great material covered that helps the overall understanding of the system and how we can improve our own Metaswitch in our company. : 1  Absolutely! : 1  Although, in this case they were already in attendance. : 1  As long as they are adequately prepared : 1  But for first time players. : 1  (Other) : 35  Is.there.any.other.feedback.or.suggestions.you.would.like.to.offer.regarding.any.aspect.of.your.experience.with.your.Metaswitch.training.  :293  no : 5  N/A : 3  No : 3  none : 2  Thank you: 1  (Other) :184 | |

Thursday 12/14/17

#working with Hunter

Cleaning <- read.csv('/Users/micha/Desktop/DevLeague Begins Nov 7 2017/Project\_Sprint\_3/Working with Hunter.csv')

View(Cleaning)

Interesting about the columns names:

#The following will change the first four names of the column headers I believe -

#However it wipes out all the remaining column headers.

names(Aug\_2016) <- c("Test 1", "Instructor", "location","Classroom")

When removing a column when a column name is too long Rstudio abbreviates it – use the specific abbreviation in order to delete it..!!

As an example: The true Excel Column name was this:

What is your name (optional)?

But R Studio at the top (view) showed it as this:

What.is.your.name..optional..

So the actual command to delete the column header and entire column was this:

Aug\_2016 <- subset(Aug\_2016, select = -What.is.your.name..optional..)