# **GVault QDMS Post Go-Live Survey**

####The analysis include exploratoray data analysis and an ordinal logistic regression model.

```
require("RCurl")
## Loading required package: RCurl
## Loading required package: bitops
```

### Load the data

```
#Raw dataset
newdata1<-getURL("https://raw.githubusercontent.com/watex95/R-FOR-DATA-
SCIENCE/master/DATASETS/Gvault_survey_raw.csv")
df1<-read.csv(text=newdata1)</pre>
```

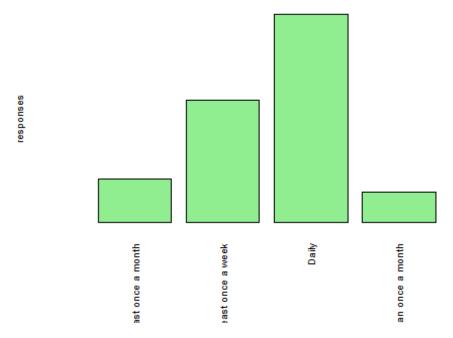
#### **EXPLORATORY DATA ANALYSIS**

Load packages

```
require("plotrix")
## Loading required package: plotrix
```

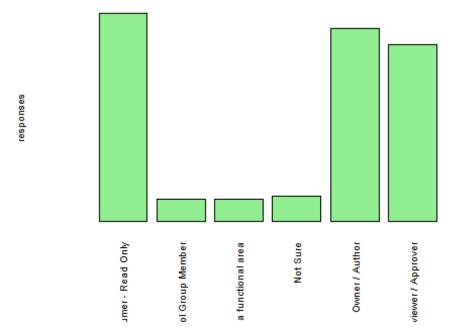
Lets explore the frequency of single choice questions

How frequently do you use GVault QDMS?

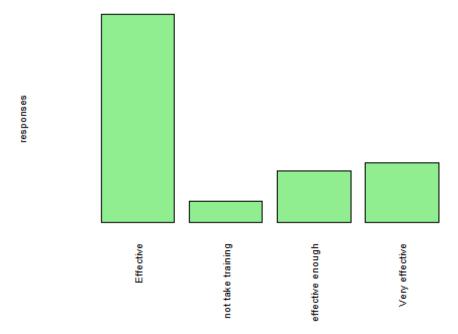


What is your role within GVault QDMS?

```
table(df1$role)
##
##
                     Consumer - Read Only
                                                    Document Control Group
Member
##
                                       153
16
## Document Steward for a functional area
                                                                          Not
Sure
##
                                        16
18
##
                           Owner / Author
                                                              Reviewer /
Approver
##
                                       142
130
barplot(table(df1$role),ylab = "responses",col = "light green",
        srt=45,las=2,yaxt='n',cex.names = 0.65,cex.lab=0.65)
```

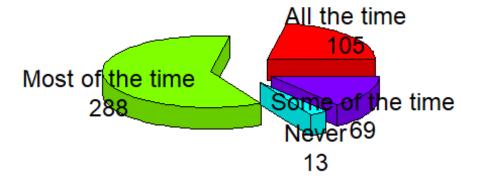


How would you describe the effectiveness of training you received?



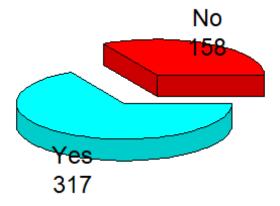
Are you able to complete work in the system without 'help' or 'intervention'?

```
require(plotrix)
mytable=table(df1$complete_without_help)
lbls <- paste(names(mytable), "\n", mytable, sep="")
pie3D(mytable, labels = lbls,explode=0.3)</pre>
```



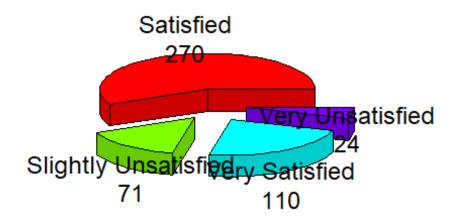
Do you find it easy to search for and access documents in GVault QDMS?

```
mytable=table(df1$easy_access_documents)
lbls <- paste(names(mytable), "\n", mytable, sep="")
pie3D(mytable, labels = lbls,explode=0.3)</pre>
```



How satisfied are you with the overall experience of GVault QDMS?

```
mytable=table(df1$satisfaction)
lbls <- paste(names(mytable), "\n", mytable, sep="")
pie3D(mytable, labels = lbls,explode=0.3)</pre>
```



How would you describe your efficiency with GVault as compared to GDocs?

```
table(df1$Gvault_efficiency)

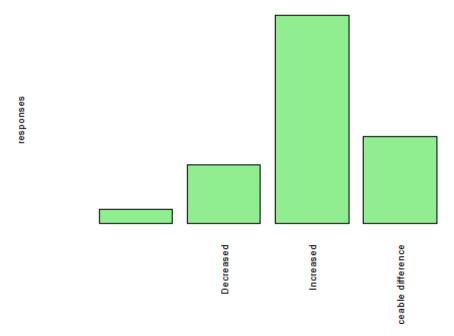
##

## Decreased Increased

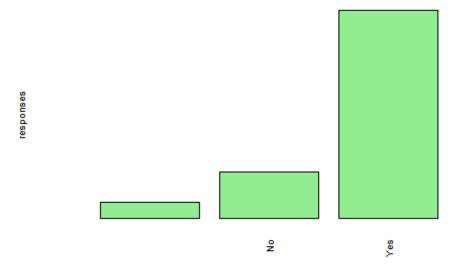
## 75 270

## No noticeable difference
## 112

barplot(table(df1$Gvault_efficiency),ylab = "responses",col = "light
green",srt=45,las=2,yaxt='n',cex.names = 0.65,cex.lab=0.65)
```

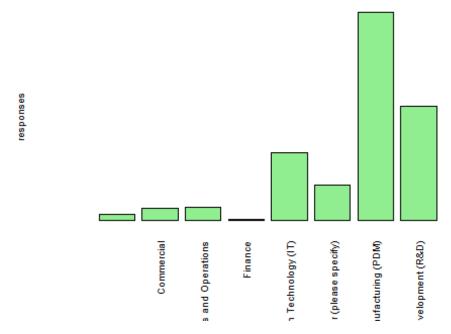


Do you find GVault has improved features and functionality compared to GDocs?



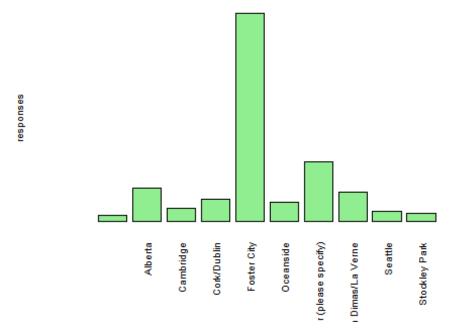
###Demographics analysis What is your functional area?

```
table(df1$functional_area)
##
##
##
                                                      6
                                             Commercial
##
##
##
                             Facilities and Operations
##
                                                Finance
##
##
##
                           Information Technology (IT)
##
                                Other (please specify)
##
##
## Pharmaceutical Development and Manufacturing (PDM)
##
                        Research and Development (R&D)
##
##
                                                    119
barplot(table(df1$functional_area),ylab = "responses",col = "light
green", srt=45, las=2, yaxt='n', cex.names = 0.65, cex.lab=0.65)
```

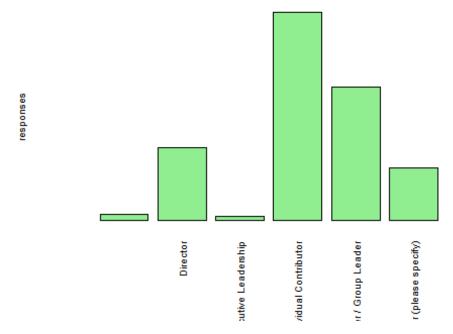


What is your office location?

```
table(df1$office_location)
##
                                           Alberta
##
                                                                 Cambridge
##
                         6
                                                39
                                                                         15
##
              Cork/Dublin
                                       Foster City
                                                                 Oceanside
##
                                               244
                                                                         22
## Other (please specify)
                               San Dimas/La Verne
                                                                   Seattle
##
                                                34
                                                                         11
##
            Stockley Park
##
barplot(table(df1$office_location),ylab = "responses",col = "light
green", srt=45, las=2, yaxt='n', cex.names = 0.65, cex.lab=0.65)
```

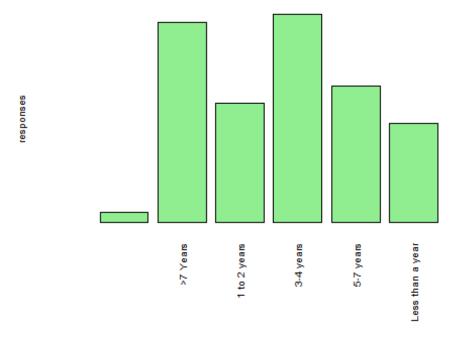


What is your Job Level?



How long have you worked at Gilead?

```
table(df1$time_worked_Glead)
##
                                                              3-4 years
##
                             >7 Years
                                          1 to 2 years
##
                  6
                                  123
                                                    73
                                                                     128
##
          5-7 years Less than a year
##
                 84
barplot(table(df1$time_worked_Glead),ylab = "responses",col = "light
green",srt=45,las=2,yaxt='n',cex.names = 0.65,cex.lab=0.65)
```



###Ordinal Logistic Regression (OLR) ##### Load the Libraries

```
require(foreign)
## Loading required package: foreign
require(ggplot2)
## Loading required package: ggplot2
require(MASS)
## Loading required package: MASS
require(Hmisc)
## Loading required package: Hmisc
## Loading required package: lattice
## Loading required package: survival
## Loading required package: Formula
## ## Attaching package: 'Hmisc'
```

```
## The following objects are masked from 'package:base':
##
## format.pval, units
require(reshape2)
## Loading required package: reshape2
```

For building this model, we will be using the polr command to estimate an ordered logistic regression. Then, we'll specify Hess=TRUE to let the model output show the observed information matrix from optimization which is used to get standard errors.

```
m<-polr(df1$satisfaction ~ df1$freq use + df1$role</pre>
          +df1$training instructor led + df1$training web based
          + df1$training read+ df1$no training+df1$training effectiveness
          + df1$support_Gnet + df1$support_inapplication
          +df1\$support ref doc + df1\$support SOP + df1\$support contacted
          +df1$support IT + df1$complete without help
          +df1$easy_access_documents + df1$Gvault_efficiency
          +df1$Gvault improved, data=df1, Hess=TRUE)
summary(m)
## Call:
## polr(formula = df1$satisfaction ~ df1$freq_use + df1$role +
df1$training instructor led +
       df1$training_web_based + df1$training_read + df1$no_training +
##
       df1$training_effectiveness + df1$support_Gnet +
df1$support inapplication +
##
       df1$support ref doc + df1$support SOP + df1$support contacted +
##
       df1$support_IT + df1$complete_without_help + df1$easy_access_documents
+
       df1$Gvault_efficiency + df1$Gvault_improved, data = df1,
##
       Hess = TRUE)
##
##
## Coefficients:
##
Value
## df1$freq_useAt least once a week
-0.061256
## df1$freq useDaily
-0.225149
## df1$freq useLess than once a month
-0.298138
## df1$roleDocument Control Group Member
-0.035346
## df1$roleDocument Steward for a functional area
0.839250
## df1$roleNot Sure
-0.710795
## df1$roleOwner / Author
0.232541
```

```
## df1$roleReviewer / Approver
0.149034
## df1$training_instructor_ledInstructor Led
-0.014088
## df1$training_web_basedWeb/Computer Based
-0.201767
## df1$training readRead & Understood of Procedural Document(s)
0.233305
## df1$no_trainingI did not take training
-2.164934
## df1$training_effectivenessI did not take training
2.662338
## df1$training effectivenessNot effective enough
0.418935
## df1$training_effectivenessVery effective
1.469944
## df1$support_GnetGNet
0.007038
## df1$support inapplicationIn-Application (GVault)
0.672101
## df1$support ref docReference Document (User Manual, Reference Guide,
Training Material, etc) 0.349751
## df1$support SOPSOPs and Work Instructions
0.112311
## df1$support contactedContacted my Document Control or Training Group
-0.224774
## df1$support ITIT Support / SPARC
0.062084
## df1$complete_without_helpMost of the time
-0.900815
## df1$complete without helpNever
0.499156
## df1$complete without helpSome of the time
-0.261270
## df1$easy_access_documentsYes
-0.162641
## df1$Gvault_efficiencyDecreased
0.925684
## df1$Gvault_efficiencyIncreased
0.813776
## df1$Gvault_efficiencyNo noticeable difference
0.107436
## df1$Gvault_improvedNo
1.889843
## df1$Gvault improvedYes
0.539834
##
Std. Error
## df1$freq_useAt least once a week
0.3640
```

```
## df1$freq useDaily
0.3642
## df1$freq_useLess than once a month
0.5118
## df1$roleDocument Control Group Member
0.5846
## df1$roleDocument Steward for a functional area
0.5561
## df1$roleNot Sure
0.6216
## df1$roleOwner / Author
0.2884
## df1$roleReviewer / Approver
0.2782
## df1$training_instructor_ledInstructor Led
## df1$training_web_basedWeb/Computer Based
0.2269
## df1$training readRead & Understood of Procedural Document(s)
0.2339
## df1$no trainingI did not take training
1.3209
## df1$training_effectivenessI did not take training
1.3396
## df1$training effectivenessNot effective enough
0.2972
## df1$training effectivenessVery effective
0.2688
## df1$support_GnetGNet
0.2210
## df1$support inapplicationIn-Application (GVault)
## df1$support ref docReference Document (User Manual, Reference Guide,
Training Material, etc)
                            0.2145
## df1$support SOPSOPs and Work Instructions
0.2152
## df1$support_contactedContacted my Document Control or Training Group
0.2209
## df1$support_ITIT Support / SPARC
0.3173
## df1$complete without helpMost of the time
0.2542
## df1$complete_without_helpNever
0.6184
## df1$complete without helpSome of the time
0.3708
## df1$easy_access_documentsYes
0.2574
## df1$Gvault_efficiencyDecreased
0.8537
```

```
## df1$Gvault efficiencyIncreased
0.8234
## df1$Gvault_efficiencyNo noticeable difference
0.8297
## df1$Gvault_improvedNo
0.6701
## df1$Gvault improvedYes
0.6258
##
t value
## df1$freq_useAt least once a week
-0.16828
## df1$freq useDaily
-0.61814
## df1$freq_useLess than once a month
## df1$roleDocument Control Group Member
-0.06046
## df1$roleDocument Steward for a functional area
1.50921
## df1$roleNot Sure
-1.14345
## df1$roleOwner / Author
0.80632
## df1$roleReviewer / Approver
0.53578
## df1$training instructor ledInstructor Led
-0.05751
## df1$training_web_basedWeb/Computer Based
-0.88939
## df1$training readRead & Understood of Procedural Document(s)
0.99730
## df1$no trainingI did not take training
-1.63898
## df1$training_effectivenessI did not take training
1.98735
## df1$training_effectivenessNot effective enough
1.40961
## df1$training_effectivenessVery effective
5.46838
## df1$support_GnetGNet
0.03184
## df1$support_inapplicationIn-Application (GVault)
2.87713
## df1$support ref docReference Document (User Manual, Reference Guide,
Training Material, etc) 1.63043
## df1$support_SOPSOPs and Work Instructions
0.52185
## df1$support_contactedContacted my Document Control or Training Group
-1.01772
```

```
## df1$support ITIT Support / SPARC
0.19564
## df1$complete_without_helpMost of the time
-3.54343
## df1$complete_without_helpNever
0.80717
## df1$complete without helpSome of the time
-0.70457
## df1$easy_access_documentsYes
-0.63187
## df1$Gvault_efficiencyDecreased
1.08428
## df1$Gvault efficiencyIncreased
0.98825
## df1$Gvault_efficiencyNo noticeable difference
0.12949
## df1$Gvault_improvedNo
2.82023
## df1$Gvault improvedYes
0.86269
##
## Intercepts:
##
                                       Value
                                               Std. Error t value
## Satisfied | Slightly Unsatisfied
                                        1.6519 0.7826
                                                            2.1109
## Slightly Unsatisfied | Very Satisfied 2.4814 0.7885
                                                            3.1472
## Very Satisfied | Very Unsatisfied
                                       4.7798 0.8193
                                                            5.8342
##
## Residual Deviance: 914.5326
## AIC: 980.5326
```

We see the usual regression output coefficient table including the value of each coefficient, standard errors, t values, estimates for the two intercepts, residual deviance and AIC. AIC is the information criteria. Lesser the better.

Now we'll calculate some essential metrics such as p-Value, CI, Odds ratio. The output displayed next are values: log odds(coefficients of estimation), t values are the t-distribution test statistic values, and finally the p-values are the probability of error.

```
ctable <- coef(summary(m))
p <- pnorm(abs(ctable[, "t value"]), lower.tail = FALSE) * 2
ctable <- cbind(ctable, "p value" = p)
ctable

##
Value
## df1$freq_useAt least once a week
-0.061255520
## df1$freq_useDaily
-0.225148789
## df1$freq_useLess than once a month</pre>
```

```
-0.298137738
## df1$roleDocument Control Group Member
-0.035346366
## df1$roleDocument Steward for a functional area
0.839250212
## df1$roleNot Sure
-0.710794769
## df1$roleOwner / Author
0.232540770
## df1$roleReviewer / Approver
0.149033738
## df1$training instructor ledInstructor Led
-0.014088132
## df1$training_web_basedWeb/Computer Based
-0.201766655
## df1$training readRead & Understood of Procedural Document(s)
0.233305064
## df1$no trainingI did not take training
-2.164933941
## df1$training_effectivenessI did not take training
2.662337561
## df1$training_effectivenessNot effective enough
0.418934925
## df1$training effectivenessVery effective
1.469944319
## df1$support_GnetGNet
0.007037608
## df1$support_inapplicationIn-Application (GVault)
0.672101137
## df1$support ref docReference Document (User Manual, Reference Guide,
Training Material, etc) 0.349751351
## df1$support SOPSOPs and Work Instructions
0.112310847
## df1$support_contactedContacted my Document Control or Training Group
-0.224773958
## df1$support ITIT Support / SPARC
0.062083893
## df1$complete_without_helpMost of the time
-0.900814906
## df1$complete_without_helpNever
0.499156305
## df1$complete without helpSome of the time
-0.261270473
## df1$easy_access_documentsYes
-0.162640886
## df1$Gvault_efficiencyDecreased
0.925683533
## df1$Gvault_efficiencyIncreased
0.813775704
## df1$Gvault_efficiencyNo noticeable difference
```

```
0.107435707
## df1$Gvault improvedNo
1.889843138
## df1$Gvault_improvedYes
0.539833742
## Satisfied | Slightly Unsatisfied
1.651903387
## Slightly Unsatisfied | Very Satisfied
2.481428832
## Very Satisfied Very Unsatisfied
4.779807594
##
Std. Error
## df1$freq useAt least once a week
0.3640076
## df1$freq_useDaily
0.3642379
## df1$freq useLess than once a month
0.5118063
## df1$roleDocument Control Group Member
0.5846309
## df1$roleDocument Steward for a functional area
0.5560856
## df1$roleNot Sure
0.6216254
## df1$roleOwner / Author
0.2883987
## df1$roleReviewer / Approver
0.2781638
## df1$training instructor ledInstructor Led
0.2449576
## df1$training_web_basedWeb/Computer Based
0.2268604
## df1$training_readRead & Understood of Procedural Document(s)
0.2339372
## df1$no trainingI did not take training
1.3209057
## df1$training_effectivenessI did not take training
1.3396388
## df1$training_effectivenessNot effective enough
0.2971996
## df1$training effectivenessVery effective
0.2688082
## df1$support_GnetGNet
0.2210034
## df1$support_inapplicationIn-Application (GVault)
0.2336016
## df1$support_ref_docReference Document (User Manual, Reference Guide,
Training Material, etc) 0.2145142
## df1$support_SOPSOPs and Work Instructions
```

```
0.2152168
## df1$support_contactedContacted my Document Control or Training Group
0.2208596
## df1$support_ITIT Support / SPARC
0.3173358
## df1$complete_without_helpMost of the time
0.2542211
## df1$complete_without_helpNever
0.6184067
## df1$complete_without_helpSome of the time
0.3708206
## df1$easy access documentsYes
0.2573965
## df1$Gvault_efficiencyDecreased
0.8537290
## df1$Gvault_efficiencyIncreased
0.8234482
## df1$Gvault efficiencyNo noticeable difference
0.8296784
## df1$Gvault_improvedNo
0.6701029
## df1$Gvault_improvedYes
0.6257589
## Satisfied Slightly Unsatisfied
0.7825531
## Slightly Unsatisfied | Very Satisfied
0.7884581
## Very Satisfied | Very Unsatisfied
0.8192696
##
t value
## df1$freq_useAt least once a week
-0.16828087
## df1$freq useDaily
-0.61813665
## df1$freq useLess than once a month
-0.58252067
## df1$roleDocument Control Group Member
-0.06045929
## df1$roleDocument Steward for a functional area
1.50921053
## df1$roleNot Sure
-1.14344556
## df1$roleOwner / Author
0.80631711
## df1$roleReviewer / Approver
0.53577681
## df1$training_instructor_ledInstructor Led
-0.05751253
## df1$training_web_basedWeb/Computer Based
```

```
-0.88938675
## df1$training readRead & Understood of Procedural Document(s)
0.99729791
## df1$no_trainingI did not take training
-1.63897685
## df1$training_effectivenessI did not take training
1.98735477
## df1$training_effectivenessNot effective enough
1.40960810
## df1$training effectivenessVery effective
5.46837694
## df1$support GnetGNet
0.03184388
## df1$support inapplicationIn-Application (GVault)
2.87712521
## df1$support_ref_docReference Document (User Manual, Reference Guide,
Training Material, etc) 1.63043451
## df1$support SOPSOPs and Work Instructions
0.52184971
## df1$support_contactedContacted my Document Control or Training Group
-1.01772325
## df1$support_ITIT Support / SPARC
0.19564098
## df1$complete without helpMost of the time
-3.54343092
## df1$complete_without_helpNever
0.80716509
## df1$complete_without_helpSome of the time
-0.70457384
## df1$easy access documentsYes
-0.63186911
## df1$Gvault_efficiencyDecreased
1.08428267
## df1$Gvault efficiencyIncreased
0.98825372
## df1$Gvault efficiencyNo noticeable difference
0.12949078
## df1$Gvault_improvedNo
2.82022827
## df1$Gvault_improvedYes
0.86268647
## Satisfied Slightly Unsatisfied
2.11091543
## Slightly Unsatisfied | Very Satisfied
3.14719184
## Very Satisfied Very Unsatisfied
5.83423013
##
p value
## df1$freq_useAt least once a week
```

```
8.663623e-01
## df1$freq useDaily
5.364853e-01
## df1$freq useLess than once a month
5.602160e-01
## df1$roleDocument Control Group Member
9.517898e-01
## df1$roleDocument Steward for a functional area
1.312450e-01
## df1$roleNot Sure
2.528536e-01
## df1$roleOwner / Author
4.200600e-01
## df1$roleReviewer / Approver
5.921128e-01
## df1$training_instructor_ledInstructor Led
9.541369e-01
## df1$training web basedWeb/Computer Based
3.737953e-01
## df1$training_readRead & Understood of Procedural Document(s)
3.186199e-01
## df1$no_trainingI did not take training
1.012181e-01
## df1$training_effectivenessI did not take training
4.688310e-02
## df1$training_effectivenessNot effective enough
1.586554e-01
## df1$training_effectivenessVery effective
4.541752e-08
## df1$support GnetGNet
9.745965e-01
## df1$support_inapplicationIn-Application (GVault)
4.013163e-03
## df1$support ref docReference Document (User Manual, Reference Guide,
Training Material, etc) 1.030097e-01
## df1$support SOPSOPs and Work Instructions
6.017750e-01
## df1$support_contactedContacted my Document Control or Training Group
3.088095e-01
## df1$support_ITIT Support / SPARC
8.448912e-01
## df1$complete without helpMost of the time
3.949568e-04
## df1$complete_without_helpNever
4.195714e-01
## df1$complete_without_helpSome of the time
4.810755e-01
## df1$easy_access_documentsYes
5.274724e-01
## df1$Gvault_efficiencyDecreased
```

```
2.782395e-01
## df1$Gvault_efficiencyIncreased
3.230284e-01
## df1$Gvault_efficiencyNo noticeable difference
8.969693e-01
## df1$Gvault_improvedNo
4.798950e-03
## df1$Gvault_improvedYes
3.883099e-01
## Satisfied|Slightly Unsatisfied
3.477958e-02
## Slightly Unsatisfied|Very Satisfied
1.648468e-03
## Very Satisfied|Very Unsatisfied
5.403950e-09
```

#### **Odds Ratios and their Confidence Intervals**

```
ci <- confint(m)</pre>
## Waiting for profiling to be done...
exp(cbind(OR = coef(m), ci))
##
OR
## df1$freq_useAt least once a week
0.9405829
## df1$freq_useDaily
0.7983974
## df1$freq useLess than once a month
0.7421991
## df1$roleDocument Control Group Member
0.9652710
## df1$roleDocument Steward for a functional area
2.3146308
## df1$roleNot Sure
0.4912536
## df1$roleOwner / Author
1.2618019
## df1$roleReviewer / Approver
1.1607121
## df1$training_instructor_ledInstructor Led
0.9860106
## df1$training_web_basedWeb/Computer Based
0.8172856
## df1$training_readRead & Understood of Procedural Document(s)
1.2627666
## df1$no_trainingI did not take training
0.1147575
## df1$training_effectivenessI did not take training
14.3297466
```

```
## df1$training effectivenessNot effective enough
1.5203414
## df1$training_effectivenessVery effective
4.3489930
## df1$support_GnetGNet
1.0070624
## df1$support inapplicationIn-Application (GVault)
1.9583478
## df1$support_ref_docReference Document (User Manual, Reference Guide,
Training Material, etc) 1.4187147
## df1$support_SOPSOPs and Work Instructions
1.1188606
## df1$support contactedContacted my Document Control or Training Group
0.7986967
## df1$support_ITIT Support / SPARC
1.0640516
## df1$complete_without_helpMost of the time
0.4062385
## df1$complete without helpNever
1.6473308
## df1$complete_without_helpSome of the time
0.7700726
## df1$easy_access_documentsYes
0.8498963
## df1$Gvault efficiencyDecreased
2.5235926
## df1$Gvault efficiencyIncreased
2.2564115
## df1$Gvault_efficiencyNo noticeable difference
1.1134193
## df1$Gvault_improvedNo
6.6183304
## df1$Gvault improvedYes
1.7157216
##
2.5 %
## df1$freq_useAt least once a week
0.463984624
## df1$freq_useDaily
0.393674401
## df1$freq_useLess than once a month
0.266853560
## df1$roleDocument Control Group Member
0.298130157
## df1$roleDocument Steward for a functional area
0.756901241
## df1$roleNot Sure
0.131970798
## df1$roleOwner / Author
0.717716313
```

```
## df1$roleReviewer / Approver
0.673176065
## df1$training_instructor_ledInstructor Led
0.610563800
## df1$training_web_basedWeb/Computer Based
0.524022291
## df1$training readRead & Understood of Procedural Document(s)
0.800739629
## df1$no_trainingI did not take training
0.004596766
## df1$training_effectivenessI did not take training
1.250406179
## df1$training effectivenessNot effective enough
0.843980236
## df1$training_effectivenessVery effective
2.572731017
## df1$support_GnetGNet
0.650983679
## df1$support inapplicationIn-Application (GVault)
1.238240827
## df1$support ref docReference Document (User Manual, Reference Guide,
Training Material, etc) 0.932364218
## df1$support SOPSOPs and Work Instructions
0.733004716
## df1$support contactedContacted my Document Control or Training Group
0.517337265
## df1$support ITIT Support / SPARC
0.564939050
## df1$complete_without_helpMost of the time
0.246551259
## df1$complete without helpNever
0.473766898
## df1$complete_without_helpSome of the time
0.370922492
## df1$easy_access_documentsYes
0.513532685
## df1$Gvault_efficiencyDecreased
0.479579095
## df1$Gvault_efficiencyIncreased
0.456763606
## df1$Gvault_efficiencyNo noticeable difference
0.221095979
## df1$Gvault_improvedNo
1.896190043
## df1$Gvault improvedYes
0.537459748
##
97.5 %
## df1$freq_useAt least once a week
1.9416099
```

```
## df1$freq useDaily
1.6491686
## df1$freq_useLess than once a month
2.0030414
## df1$roleDocument Control Group Member
2.9884884
## df1$roleDocument Steward for a functional area
6.8122375
## df1$roleNot Sure
1.5668129
## df1$roleOwner / Author
2.2266164
## df1$roleReviewer / Approver
2.0062932
## df1$training_instructor_ledInstructor Led
1.5969506
## df1$training_web_basedWeb/Computer Based
1.2766539
## df1$training readRead & Understood of Procedural Document(s)
2.0058319
## df1$no_trainingI did not take training
1.2460146
## df1$training_effectivenessI did not take training
363.9223923
## df1$training effectivenessNot effective enough
2.7125669
## df1$training effectivenessVery effective
7.3915420
## df1$support_GnetGNet
1.5498643
## df1$support inapplicationIn-Application (GVault)
3.0976786
## df1$support_ref_docReference Document (User Manual, Reference Guide,
Training Material, etc)
                          2.1638272
## df1$support SOPSOPs and Work Instructions
1.7057883
## df1$support_contactedContacted my Document Control or Training Group
1.2308936
## df1$support_ITIT Support / SPARC
1.9673261
## df1$complete_without_helpMost of the time
0.6688372
## df1$complete_without_helpNever
5.4780282
## df1$complete without helpSome of the time
1.5909998
## df1$easy_access_documentsYes
1.4113909
## df1$Gvault_efficiencyDecreased
14.4853373
```

```
## df1$Gvault_efficiencyIncreased
12.3340562
## df1$Gvault_efficiencyNo noticeable difference
6.1067697
## df1$Gvault_improvedNo
27.2439790
## df1$Gvault_improvedYes
6.5299143
```

####Interpretation at a glance: The effect of one predictor on the odds/likelihood of satisfaction When Gvault is used atleast once a week versus atleast once a month, the odds of satisfaction being very satisfied are 0.9 greater than the odds of either "satisfied", "slightly unsatisfied" or "very unsatisfied" combined. NOTE: The reference level selected was "atleast once a month"

When the training is very effective versus effective training, the odds of a user being very satisfied are 4.38 greater than the odds of being either "satisfied", "slightly unsatisfied" or "very unsatisfied" combined. NOTE: The reference level selected was "effective"

## **Summary**

Most of the predictor variables were not statistically significant in predicting the level of satisfaction with the overall experience of GVault QDMS. Training effectiveness (p-value=0.04688), Support for In application(p-value=0.00401), complete work without(p-value=0.000395) help,and whether Gvault improved features(p-value=0.000479) were the variables that significantly affected satisfaction of a user.