Telecom Churn Analysis.R

2019-10-10

```r
##Multivariate Project
##TELECOM-CHURN-ANALYSIS
##Author : Priyanshi Bajpai

##Importing Libraries

library(ggplot2)
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 3.4.4
```

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

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

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

```r
library (stringr)
```

```
## Warning: package 'stringr' was built under R version 3.4.4
```

```r
library(data.table)
```

```
## Warning: package 'data.table' was built under R version 3.4.4
```

```
##
## Attaching package: 'data.table'
```

```
## The following objects are masked from 'package:dplyr':
##
##     between, first, last
```

```r
library(grid)
library(gridExtra)
```

```
##
## Attaching package: 'gridExtra'
```

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

```
library(corrplot)
```

Warning: package 'corrplot' was built under R version 3.4.4

corrplot 0.84 loaded

##Importing Dataset and doing preliminary analysis

#Importing CSV file from drive on my local computer and viewing it

```
tablechurn<-read.csv("C:/Users/SHIVANSHI/Desktop/Priyanshi/MVA/Telecom Churn
Analysis Data.csv")
tablechurn <- as.data.frame(tablechurn)
View(tablechurn)
```

#Checking the Dimension of the dataset

```
dim(tablechurn)
```

[1] 7043   21

#Viewing the first 4 rows of the dataset to get the overview of the dataset

```
head(tablechurn,4)
```

```
##   CustomerID Gender SeniorCitizen Partner Dependents Tenure PhoneService
## 1 7590-VHVEG Female             0     Yes         No      1           No
## 2 5575-GNVDE   Male             0      No         No     34          Yes
## 3 3668-QPYBK   Male             0      No         No      2          Yes
## 4 7795-CFOCW   Male             0      No         No     45           No
##      MultipleLines InternetService OnlineSecurity OnlineBackup
## 1 No phone service             DSL             No          Yes
## 2               No             DSL            Yes           No
## 3               No             DSL            Yes          Yes
## 4 No phone service             DSL            Yes           No
##   DeviceProtection TechSupport StreamingTV StreamingMovies        Contract
## 1               No          No          No              No Month-to-month
## 2              Yes          No          No              No        One year
## 3               No          No          No              No Month-to-month
## 4              Yes         Yes          No              No        One year
##   PaperlessBilling              PaymentMethod MonthlyCharges TotalCharges
## 1              Yes           Electronic check          29.85        29.85
## 2               No               Mailed check          56.95      1889.50
## 3              Yes               Mailed check          53.85       108.15
## 4               No Bank transfer (automatic)          42.30      1840.75
##   Churn
## 1    No
## 2    No
## 3   Yes
## 4    No
```

```
#Gaining more insight about the kind of data stored in each column

summary(tablechurn)

##      CustomerID      Gender      SeniorCitizen     Partner     Dependents
##  0002-ORFBO:   1   Female:3488   Min.   :0.0000   No :3641    No :4933
##  0003-MKNFE:   1   Male  :3555   1st Qu.:0.0000   Yes:3402    Yes:2110
##  0004-TLHLJ:   1                 Median :0.0000
##  0011-IGKFF:   1                 Mean   :0.1621
##  0013-EXCHZ:   1                 3rd Qu.:0.0000
##  0013-MHZWF:   1                 Max.   :1.0000
##  (Other)   :7037
##      Tenure      PhoneService          MultipleLines       InternetService
##  Min.   : 0.00   No : 682     No               :3390   DSL        :2421
##  1st Qu.: 9.00   Yes:6361     No phone service: 682    Fiber optic:3096
##  Median :29.00                Yes              :2971   No         :1526
##  Mean   :32.37
##  3rd Qu.:55.00
##  Max.   :72.00
##
##            OnlineSecurity            OnlineBackup
##  No                 :3498   No                 :3088
##  No internet service:1526   No internet service:1526
##  Yes                :2019   Yes                :2429
##
##
##
##
##            DeviceProtection          TechSupport
##  No                 :3095   No                 :3473
##  No internet service:1526   No internet service:1526
##  Yes                :2422   Yes                :2044
##
##
##
##
##            StreamingTV               StreamingMovies
##  No                 :2810   No                 :2785
##  No internet service:1526   No internet service:1526
##  Yes                :2707   Yes                :2732
##
##
##
##
##            Contract      PaperlessBilling                   PaymentMethod
##  Month-to-month:3875   No :2872        Bank transfer (automatic):1544
##  One year      :1473   Yes:4171        Credit card (automatic)  :1522
##  Two year      :1695                   Electronic check         :2365
##                                        Mailed check             :1612
##
```

```
## 
## 
##   MonthlyCharges    TotalCharges    Churn
##   Min.   : 18.25  Min.   :  18.8   No :5174
##   1st Qu.: 35.50  1st Qu.: 401.4   Yes:1869
##   Median : 70.35  Median :1397.5
##   Mean   : 64.76  Mean   :2283.3
##   3rd Qu.: 89.85  3rd Qu.:3794.7
##   Max.   :118.75  Max.   :8684.8
##                   NA's   :11
```

```
glimpse(tablechurn)
```

```
## Observations: 7,043
## Variables: 21
## $ CustomerID       <fct> 7590-VHVEG, 5575-GNVDE, 3668-QPYBK, 7795-CFOC...
## $ Gender           <fct> Female, Male, Male, Male, Female, Female, Mal...
## $ SeniorCitizen    <int> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
## $ Partner          <fct> Yes, No, No, No, No, No, No, No, Yes, No, Yes...
## $ Dependents       <fct> No, No, No, No, No, No, Yes, No, No, Yes, Yes...
## $ Tenure           <int> 1, 34, 2, 45, 2, 8, 22, 10, 28, 62, 13, 16, 5...
## $ PhoneService     <fct> No, Yes, Yes, No, Yes, Yes, Yes, No, Yes, Yes...
## $ MultipleLines    <fct> No phone service, No, No, No phone service, N...
## $ InternetService  <fct> DSL, DSL, DSL, DSL, Fiber optic, Fiber optic,...
## $ OnlineSecurity   <fct> No, Yes, Yes, Yes, No, No, No, Yes, No, Yes, ...
## $ OnlineBackup     <fct> Yes, No, Yes, No, No, No, Yes, No, No, Yes, N...
## $ DeviceProtection <fct> No, Yes, No, Yes, No, Yes, No, No, Yes, No, N...
## $ TechSupport      <fct> No, No, No, Yes, No, No, No, No, Yes, No, No,...
## $ StreamingTV      <fct> No, No, No, No, No, Yes, Yes, No, Yes, No, No...
## $ StreamingMovies  <fct> No, No, No, No, No, Yes, No, No, Yes, No, No,...
## $ Contract         <fct> Month-to-month, One year, Month-to-month, One...
## $ PaperlessBilling <fct> Yes, No, Yes, No, Yes, Yes, Yes, No, Yes, No,...
## $ PaymentMethod    <fct> Electronic check, Mailed check, Mailed check,...
## $ MonthlyCharges   <dbl> 29.85, 56.95, 53.85, 42.30, 70.70, 99.65, 89....
## $ TotalCharges     <dbl> 29.85, 1889.50, 108.15, 1840.75, 151.65, 820....
## $ Churn            <fct> No, No, Yes, No, Yes, Yes, No, No, Yes, No, N...
```

```
#The above results give us an insight that TotalCharges and MonthlyCharges
are numerical values
#SeniorCitizen and Tenure are stored as numerical which need to be converted
to categorical variables

## Performing Data Cleaning and Formatting

#Converting SeniorCitizen numerical variable into Categorical Variable

tablechurn$SeniorCitizen<-factor(tablechurn$SeniorCitizen,levels = c(0
,1),labels = c('no','yes'))

#Converting tenure values into ranges of 12 months
```

```r
tablechurn <- mutate(tablechurn,Tenure_Range = Tenure)
cut(tablechurn$Tenure_Range,6,labels = c('0-1 Years','1-2 Years','2-3
Years','4-5 Years','5-6 Years','6-7 Years'))
```

```
##     [1] 0-1 Years 2-3 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years
##     [7] 1-2 Years 0-1 Years 2-3 Years 6-7 Years 1-2 Years 1-2 Years
##    [13] 5-6 Years 5-6 Years 2-3 Years 6-7 Years 5-6 Years 6-7 Years
##    [19] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years
##    [25] 5-6 Years 2-3 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years
##    [31] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years
##    [37] 0-1 Years 4-5 Years 2-3 Years 0-1 Years 0-1 Years 6-7 Years
##    [43] 1-2 Years 6-7 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years
##    [49] 5-6 Years 6-7 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years
##    [55] 5-6 Years 1-2 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years
##    [61] 4-5 Years 5-6 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years
##    [67] 4-5 Years 2-3 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Years
##    [73] 6-7 Years 6-7 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years
##    [79] 2-3 Years 4-5 Years 0-1 Years 0-1 Years 0-1 Years 4-5 Years
##    [85] 5-6 Years 0-1 Years 2-3 Years 4-5 Years 4-5 Years 2-3 Years
##    [91] 2-3 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years
##    [97] 6-7 Years 0-1 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Years
##   [103] 4-5 Years 6-7 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years
##   [109] 4-5 Years 6-7 Years 5-6 Years 5-6 Years 4-5 Years 4-5 Years
##   [115] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 4-5 Years 2-3 Years
##   [121] 5-6 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years
##   [127] 2-3 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 2-3 Years
##   [133] 6-7 Years 0-1 Years 0-1 Years 4-5 Years 1-2 Years 6-7 Years
##   [139] 5-6 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years
##   [145] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years
##   [151] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years
##   [157] 1-2 Years 1-2 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years
##   [163] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years 6-7 Years
##   [169] 5-6 Years 1-2 Years 4-5 Years 0-1 Years 1-2 Years 5-6 Years
##   [175] 2-3 Years 2-3 Years 1-2 Years 0-1 Years 1-2 Years 6-7 Years
##   [181] 0-1 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years 0-1 Years
##   [187] 1-2 Years 0-1 Years 1-2 Years 4-5 Years 4-5 Years 0-1 Years
##   [193] 6-7 Years 6-7 Years 5-6 Years 1-2 Years 1-2 Years 5-6 Years
##   [199] 6-7 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years 1-2 Years
##   [205] 4-5 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years
##   [211] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years 5-6 Years
##   [217] 6-7 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years
##   [223] 0-1 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Years
##   [229] 2-3 Years 4-5 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years
##   [235] 2-3 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years
##   [241] 6-7 Years 6-7 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years
##   [247] 4-5 Years 1-2 Years 0-1 Years 4-5 Years 5-6 Years 0-1 Years
##   [253] 0-1 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years
##   [259] 0-1 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 2-3 Years
##   [265] 4-5 Years 6-7 Years 5-6 Years 1-2 Years 5-6 Years 6-7 Years
##   [271] 1-2 Years 5-6 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years
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##   [277] 5-6 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years
##   [283] 0-1 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years 0-1 Years
##   [289] 0-1 Years 0-1 Years 1-2 Years 2-3 Years 1-2 Years 0-1 Years
##   [295] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 4-5 Years 0-1 Years
##   [301] 1-2 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 5-6 Years
##   [307] 2-3 Years 2-3 Years 4-5 Years 4-5 Years 0-1 Years 1-2 Years
##   [313] 4-5 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years 4-5 Years
##   [319] 1-2 Years 2-3 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years
##   [325] 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years
##   [331] 2-3 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years
##   [337] 4-5 Years 6-7 Years 2-3 Years 6-7 Years 2-3 Years 6-7 Years
##   [343] 6-7 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years
##   [349] 1-2 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years 0-1 Years
##   [355] 1-2 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years 4-5 Years
##   [361] 0-1 Years 4-5 Years 5-6 Years 4-5 Years 1-2 Years 0-1 Years
##   [367] 1-2 Years 0-1 Years 6-7 Years 6-7 Years 2-3 Years 0-1 Years
##   [373] 1-2 Years 5-6 Years 4-5 Years 4-5 Years 0-1 Years 2-3 Years
##   [379] 6-7 Years 1-2 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years
##   [385] 4-5 Years 0-1 Years 5-6 Years 4-5 Years 4-5 Years 0-1 Years
##   [391] 2-3 Years 2-3 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years
##   [397] 2-3 Years 2-3 Years 2-3 Years 1-2 Years 2-3 Years 0-1 Years
##   [403] 6-7 Years 6-7 Years 1-2 Years 6-7 Years 5-6 Years 2-3 Years
##   [409] 0-1 Years 0-1 Years 0-1 Years 4-5 Years 2-3 Years 5-6 Years
##   [415] 4-5 Years 1-2 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years
##   [421] 0-1 Years 0-1 Years 2-3 Years 4-5 Years 0-1 Years 5-6 Years
##   [427] 5-6 Years 0-1 Years 1-2 Years 6-7 Years 6-7 Years 6-7 Years
##   [433] 0-1 Years 0-1 Years 4-5 Years 2-3 Years 2-3 Years 6-7 Years
##   [439] 2-3 Years 0-1 Years 1-2 Years 5-6 Years 5-6 Years 1-2 Years
##   [445] 2-3 Years 5-6 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years
##   [451] 6-7 Years 1-2 Years 5-6 Years 2-3 Years 6-7 Years 1-2 Years
##   [457] 2-3 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years
##   [463] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 6-7 Years
##   [469] 4-5 Years 1-2 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years
##   [475] 0-1 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years
##   [481] 0-1 Years 4-5 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years
##   [487] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years
##   [493] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 2-3 Years 6-7 Years
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##   [505] 6-7 Years 1-2 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years
##   [511] 1-2 Years 6-7 Years 0-1 Years 5-6 Years 2-3 Years 4-5 Years
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##   [535] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 6-7 Years 5-6 Years
##   [541] 6-7 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years 2-3 Years
##   [547] 4-5 Years 6-7 Years 5-6 Years 1-2 Years 6-7 Years 6-7 Years
##   [553] 5-6 Years 1-2 Years 2-3 Years 5-6 Years 0-1 Years 4-5 Years
##   [559] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years 5-6 Years
##   [565] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years
##   [571] 5-6 Years 4-5 Years 0-1 Years 5-6 Years 2-3 Years 6-7 Years
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##   [577] 2-3 Years 0-1 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years
##   [583] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years
##   [589] 6-7 Years 6-7 Years 6-7 Years 4-5 Years 6-7 Years 2-3 Years
##   [595] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 5-6 Years 6-7 Years
##   [601] 1-2 Years 0-1 Years 6-7 Years 4-5 Years 2-3 Years 6-7 Years
##   [607] 4-5 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years
##   [613] 6-7 Years 4-5 Years 5-6 Years 1-2 Years 0-1 Years 6-7 Years
##   [619] 5-6 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 1-2 Years
##   [625] 0-1 Years 2-3 Years 1-2 Years 6-7 Years 6-7 Years 5-6 Years
##   [631] 4-5 Years 4-5 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Years
##   [637] 2-3 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 4-5 Years
##   [643] 0-1 Years 5-6 Years 1-2 Years 1-2 Years 0-1 Years 5-6 Years
##   [649] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years
##   [655] 0-1 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years 4-5 Years
##   [661] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Years 0-1 Years
##   [667] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years
##   [673] 0-1 Years 1-2 Years 5-6 Years 6-7 Years 4-5 Years 0-1 Years
##   [679] 0-1 Years 4-5 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years
##   [685] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 5-6 Years 5-6 Years
##   [691] 0-1 Years 2-3 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Years
##   [697] 6-7 Years 0-1 Years 4-5 Years 6-7 Years 6-7 Years 2-3 Years
##   [703] 2-3 Years 0-1 Years 0-1 Years 2-3 Years 6-7 Years 2-3 Years
##   [709] 2-3 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 1-2 Years
##   [715] 6-7 Years 4-5 Years 6-7 Years 2-3 Years 2-3 Years 6-7 Years
##   [721] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years
##   [727] 1-2 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Years 0-1 Years
##   [733] 2-3 Years 6-7 Years 2-3 Years 2-3 Years 2-3 Years 6-7 Years
##   [739] 4-5 Years 6-7 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years
##   [745] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 6-7 Years
##   [751] 2-3 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 1-2 Years
##   [757] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 1-2 Years
##   [763] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Years
##   [769] 4-5 Years 1-2 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years
##   [775] 2-3 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years
##   [781] 6-7 Years 0-1 Years 2-3 Years 0-1 Years 6-7 Years 4-5 Years
##   [787] 6-7 Years 2-3 Years 1-2 Years 6-7 Years 5-6 Years 6-7 Years
##   [793] 0-1 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 1-2 Years
##   [799] 0-1 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years
##   [805] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 4-5 Years 0-1 Years
##   [811] 5-6 Years 6-7 Years 4-5 Years 2-3 Years 0-1 Years 2-3 Years
##   [817] 0-1 Years 5-6 Years 1-2 Years 6-7 Years 6-7 Years 4-5 Years
##   [823] 4-5 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 1-2 Years
##   [829] 5-6 Years 2-3 Years 5-6 Years 4-5 Years 6-7 Years 4-5 Years
##   [835] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 2-3 Years 4-5 Years
##   [841] 5-6 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years
##   [847] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 5-6 Years
##   [853] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years 0-1 Years
##   [859] 6-7 Years 6-7 Years 2-3 Years 6-7 Years 1-2 Years 0-1 Years
##   [865] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years
##   [871] 6-7 Years 5-6 Years 6-7 Years 5-6 Years 4-5 Years 0-1 Years
```

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##  [877] 1-2 Years 5-6 Years 5-6 Years 2-3 Years 0-1 Years 2-3 Years
##  [883] 0-1 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years
##  [889] 4-5 Years 6-7 Years 2-3 Years 5-6 Years 2-3 Years 0-1 Years
##  [895] 6-7 Years 2-3 Years 6-7 Years 5-6 Years 0-1 Years 5-6 Years
##  [901] 0-1 Years 0-1 Years 1-2 Years 5-6 Years 6-7 Years 0-1 Years
##  [907] 0-1 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years
##  [913] 6-7 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years
##  [919] 2-3 Years 1-2 Years 5-6 Years 0-1 Years 1-2 Years 6-7 Years
##  [925] 1-2 Years 2-3 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years
##  [931] 1-2 Years 2-3 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years
##  [937] 0-1 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years
##  [943] 1-2 Years 6-7 Years 5-6 Years 0-1 Years 0-1 Years 2-3 Years
##  [949] 2-3 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years
##  [955] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years 2-3 Years
##  [961] 0-1 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years
##  [967] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years
##  [973] 5-6 Years 4-5 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years
##  [979] 6-7 Years 2-3 Years 1-2 Years 4-5 Years 4-5 Years 0-1 Years
##  [985] 6-7 Years 2-3 Years 0-1 Years 0-1 Years 2-3 Years 2-3 Years
##  [991] 5-6 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Years 2-3 Years
##  [997] 2-3 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years
## [1003] 0-1 Years 4-5 Years 1-2 Years 5-6 Years 1-2 Years 0-1 Years
## [1009] 2-3 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years 0-1 Years
## [1015] 1-2 Years 0-1 Years 6-7 Years 6-7 Years 0-1 Years 1-2 Years
## [1021] 4-5 Years 2-3 Years 0-1 Years 4-5 Years 4-5 Years 5-6 Years
## [1027] 0-1 Years 4-5 Years 2-3 Years 0-1 Years 5-6 Years 2-3 Years
## [1033] 0-1 Years 6-7 Years 6-7 Years 6-7 Years 6-7 Years 1-2 Years
## [1039] 5-6 Years 4-5 Years 1-2 Years 1-2 Years 1-2 Years 2-3 Years
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## [5671] 1-2 Years 6-7 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years
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## [5743] 6-7 Years 4-5 Years 4-5 Years 6-7 Years 0-1 Years 2-3 Years
## [5749] 1-2 Years 5-6 Years 1-2 Years 4-5 Years 6-7 Years 0-1 Years
## [5755] 1-2 Years 1-2 Years 5-6 Years 2-3 Years 1-2 Years 0-1 Years
## [5761] 1-2 Years 4-5 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years
## [5767] 1-2 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 0-1 Years
## [5773] 6-7 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years 6-7 Years
## [5779] 0-1 Years 4-5 Years 5-6 Years 2-3 Years 0-1 Years 0-1 Years
## [5785] 1-2 Years 4-5 Years 6-7 Years 2-3 Years 0-1 Years 2-3 Years
## [5791] 4-5 Years 6-7 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Years
## [5797] 4-5 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years 2-3 Years
## [5803] 4-5 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years
## [5809] 6-7 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 4-5 Years
## [5815] 1-2 Years 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years
## [5821] 5-6 Years 6-7 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years
## [5827] 0-1 Years 2-3 Years 6-7 Years 2-3 Years 2-3 Years 0-1 Years
## [5833] 1-2 Years 1-2 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years
## [5839] 5-6 Years 0-1 Years 6-7 Years 6-7 Years 1-2 Years 2-3 Years
## [5845] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years
## [5851] 1-2 Years 2-3 Years 1-2 Years 6-7 Years 1-2 Years 5-6 Years
## [5857] 0-1 Years 1-2 Years 6-7 Years 6-7 Years 0-1 Years 2-3 Years
## [5863] 1-2 Years 1-2 Years 4-5 Years 0-1 Years 0-1 Years 4-5 Years
## [5869] 0-1 Years 4-5 Years 0-1 Years 1-2 Years 0-1 Years 1-2 Years
## [5875] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years
## [5881] 0-1 Years 2-3 Years 1-2 Years 1-2 Years 4-5 Years 1-2 Years
## [5887] 4-5 Years 1-2 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years
## [5893] 0-1 Years 0-1 Years 4-5 Years 4-5 Years 6-7 Years 6-7 Years
## [5899] 2-3 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years 5-6 Years
## [5905] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 5-6 Years
## [5911] 0-1 Years 0-1 Years 4-5 Years 2-3 Years 2-3 Years 6-7 Years
## [5917] 6-7 Years 0-1 Years 5-6 Years 6-7 Years 2-3 Years 2-3 Years
## [5923] 6-7 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years 5-6 Years
## [5929] 6-7 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years
## [5935] 2-3 Years 1-2 Years 4-5 Years 0-1 Years 2-3 Years 1-2 Years
## [5941] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 5-6 Years
## [5947] 4-5 Years 2-3 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years
## [5953] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years 1-2 Years
## [5959] 0-1 Years 2-3 Years 6-7 Years 0-1 Years 1-2 Years 1-2 Years
## [5965] 5-6 Years 2-3 Years 4-5 Years 0-1 Years 0-1 Years 2-3 Years
## [5971] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years
```

```
## [5977] 2-3 Years 5-6 Years 4-5 Years 5-6 Years 1-2 Years 4-5 Years
## [5983] 1-2 Years 1-2 Years 1-2 Years 5-6 Years 0-1 Years 0-1 Years
## [5989] 0-1 Years 0-1 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years
## [5995] 4-5 Years 6-7 Years 6-7 Years 0-1 Years 4-5 Years 2-3 Years
## [6001] 5-6 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years
## [6007] 1-2 Years 4-5 Years 1-2 Years 5-6 Years 1-2 Years 4-5 Years
## [6013] 0-1 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years
## [6019] 2-3 Years 4-5 Years 2-3 Years 1-2 Years 1-2 Years 5-6 Years
## [6025] 0-1 Years 4-5 Years 1-2 Years 2-3 Years 0-1 Years 0-1 Years
## [6031] 4-5 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 6-7 Years
## [6037] 5-6 Years 6-7 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years
## [6043] 4-5 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 1-2 Years
## [6049] 2-3 Years 4-5 Years 6-7 Years 1-2 Years 4-5 Years 4-5 Years
## [6055] 2-3 Years 0-1 Years 5-6 Years 1-2 Years 0-1 Years 4-5 Years
## [6061] 0-1 Years 2-3 Years 5-6 Years 6-7 Years 0-1 Years 5-6 Years
## [6067] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years 6-7 Years
## [6073] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years
## [6079] 5-6 Years 2-3 Years 0-1 Years 0-1 Years 5-6 Years 6-7 Years
## [6085] 2-3 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 0-1 Years
## [6091] 6-7 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 0-1 Years
## [6097] 0-1 Years 6-7 Years 1-2 Years 6-7 Years 2-3 Years 6-7 Years
## [6103] 6-7 Years 1-2 Years 0-1 Years 5-6 Years 0-1 Years 0-1 Years
## [6109] 1-2 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years 1-2 Years
## [6115] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 6-7 Years 1-2 Years
## [6121] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 5-6 Years 1-2 Years
## [6127] 1-2 Years 5-6 Years 1-2 Years 5-6 Years 5-6 Years 4-5 Years
## [6133] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 0-1 Years
## [6139] 6-7 Years 0-1 Years 0-1 Years 5-6 Years 4-5 Years 5-6 Years
## [6145] 1-2 Years 6-7 Years 2-3 Years 4-5 Years 6-7 Years 0-1 Years
## [6151] 2-3 Years 0-1 Years 1-2 Years 5-6 Years 6-7 Years 0-1 Years
## [6157] 2-3 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years
## [6163] 5-6 Years 1-2 Years 4-5 Years 0-1 Years 2-3 Years 4-5 Years
## [6169] 0-1 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 2-3 Years
## [6175] 0-1 Years 2-3 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years
## [6181] 6-7 Years 6-7 Years 6-7 Years 4-5 Years 4-5 Years 5-6 Years
## [6187] 4-5 Years 0-1 Years 1-2 Years 6-7 Years 0-1 Years 4-5 Years
## [6193] 1-2 Years 1-2 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years
## [6199] 2-3 Years 4-5 Years 5-6 Years 0-1 Years 1-2 Years 6-7 Years
## [6205] 1-2 Years 4-5 Years 5-6 Years 4-5 Years 6-7 Years 2-3 Years
## [6211] 2-3 Years 0-1 Years 1-2 Years 1-2 Years 4-5 Years 0-1 Years
## [6217] 5-6 Years 6-7 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years
## [6223] 6-7 Years 0-1 Years 5-6 Years 6-7 Years 6-7 Years 0-1 Years
## [6229] 6-7 Years 6-7 Years 0-1 Years 0-1 Years 0-1 Years 0-1 Years
## [6235] 5-6 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years
## [6241] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years 5-6 Years
## [6247] 5-6 Years 5-6 Years 5-6 Years 0-1 Years 6-7 Years 0-1 Years
## [6253] 5-6 Years 5-6 Years 5-6 Years 6-7 Years 0-1 Years 0-1 Years
## [6259] 0-1 Years 5-6 Years 1-2 Years 6-7 Years 4-5 Years 2-3 Years
## [6265] 4-5 Years 0-1 Years 2-3 Years 0-1 Years 1-2 Years 2-3 Years
## [6271] 2-3 Years 2-3 Years 5-6 Years 0-1 Years 5-6 Years 6-7 Years
```

```
## [6277] 1-2 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years 0-1 Years
## [6283] 0-1 Years 0-1 Years 1-2 Years 2-3 Years 0-1 Years 2-3 Years
## [6289] 0-1 Years 6-7 Years 6-7 Years 5-6 Years 4-5 Years 1-2 Years
## [6295] 0-1 Years 4-5 Years 2-3 Years 6-7 Years 4-5 Years 5-6 Years
## [6301] 6-7 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years
## [6307] 6-7 Years 2-3 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years
## [6313] 5-6 Years 0-1 Years 0-1 Years 4-5 Years 6-7 Years 0-1 Years
## [6319] 0-1 Years 5-6 Years 2-3 Years 2-3 Years 0-1 Years 4-5 Years
## [6325] 0-1 Years 1-2 Years 6-7 Years 2-3 Years 6-7 Years 4-5 Years
## [6331] 1-2 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years 1-2 Years
## [6337] 5-6 Years 5-6 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years
## [6343] 4-5 Years 4-5 Years 4-5 Years 0-1 Years 0-1 Years 1-2 Years
## [6349] 2-3 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 0-1 Years
## [6355] 6-7 Years 6-7 Years 0-1 Years 6-7 Years 6-7 Years 5-6 Years
## [6361] 0-1 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years
## [6367] 6-7 Years 6-7 Years 0-1 Years 6-7 Years 4-5 Years 1-2 Years
## [6373] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 0-1 Years
## [6379] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 1-2 Years
## [6385] 0-1 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 5-6 Years
## [6391] 6-7 Years 4-5 Years 5-6 Years 2-3 Years 0-1 Years 4-5 Years
## [6397] 2-3 Years 5-6 Years 6-7 Years 5-6 Years 6-7 Years 0-1 Years
## [6403] 5-6 Years 6-7 Years 5-6 Years 5-6 Years 4-5 Years 1-2 Years
## [6409] 6-7 Years 4-5 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years
## [6415] 4-5 Years 5-6 Years 6-7 Years 5-6 Years 2-3 Years 6-7 Years
## [6421] 2-3 Years 1-2 Years 5-6 Years 6-7 Years 6-7 Years 5-6 Years
## [6427] 4-5 Years 4-5 Years 0-1 Years 6-7 Years 1-2 Years 1-2 Years
## [6433] 2-3 Years 5-6 Years 0-1 Years 5-6 Years 6-7 Years 1-2 Years
## [6439] 0-1 Years 2-3 Years 2-3 Years 1-2 Years 6-7 Years 0-1 Years
## [6445] 2-3 Years 0-1 Years 5-6 Years 5-6 Years 5-6 Years 0-1 Years
## [6451] 2-3 Years 6-7 Years 1-2 Years 4-5 Years 4-5 Years 5-6 Years
## [6457] 5-6 Years 1-2 Years 0-1 Years 5-6 Years 4-5 Years 5-6 Years
## [6463] 0-1 Years 5-6 Years 5-6 Years 5-6 Years 1-2 Years 0-1 Years
## [6469] 1-2 Years 2-3 Years 0-1 Years 1-2 Years 5-6 Years 0-1 Years
## [6475] 0-1 Years 1-2 Years 5-6 Years 6-7 Years 5-6 Years 0-1 Years
## [6481] 1-2 Years 0-1 Years 0-1 Years 1-2 Years 4-5 Years 6-7 Years
## [6487] 0-1 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 0-1 Years
## [6493] 1-2 Years 1-2 Years 2-3 Years 0-1 Years 4-5 Years 5-6 Years
## [6499] 0-1 Years 0-1 Years 1-2 Years 6-7 Years 4-5 Years 6-7 Years
## [6505] 0-1 Years 5-6 Years 1-2 Years 5-6 Years 4-5 Years 0-1 Years
## [6511] 4-5 Years 6-7 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years
## [6517] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years
## [6523] 4-5 Years 1-2 Years 0-1 Years 5-6 Years 5-6 Years 0-1 Years
## [6529] 6-7 Years 0-1 Years 6-7 Years 2-3 Years 1-2 Years 2-3 Years
## [6535] 5-6 Years 2-3 Years 0-1 Years 6-7 Years 0-1 Years 2-3 Years
## [6541] 2-3 Years 1-2 Years 1-2 Years 6-7 Years 4-5 Years 0-1 Years
## [6547] 1-2 Years 6-7 Years 2-3 Years 0-1 Years 1-2 Years 6-7 Years
## [6553] 0-1 Years 6-7 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years
## [6559] 1-2 Years 5-6 Years 1-2 Years 0-1 Years 1-2 Years 1-2 Years
## [6565] 0-1 Years 6-7 Years 6-7 Years 1-2 Years 0-1 Years 0-1 Years
## [6571] 0-1 Years 2-3 Years 6-7 Years 4-5 Years 0-1 Years 1-2 Years
```

```
## [6577] 0-1 Years 6-7 Years 0-1 Years 6-7 Years 5-6 Years 5-6 Years
## [6583] 6-7 Years 1-2 Years 5-6 Years 4-5 Years 4-5 Years 6-7 Years
## [6589] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 2-3 Years 5-6 Years
## [6595] 1-2 Years 6-7 Years 6-7 Years 0-1 Years 5-6 Years 1-2 Years
## [6601] 0-1 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years 6-7 Years
## [6607] 4-5 Years 0-1 Years 1-2 Years 0-1 Years 0-1 Years 2-3 Years
## [6613] 0-1 Years 0-1 Years 6-7 Years 0-1 Years 4-5 Years 4-5 Years
## [6619] 2-3 Years 0-1 Years 0-1 Years 4-5 Years 0-1 Years 0-1 Years
## [6625] 6-7 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years
## [6631] 1-2 Years 2-3 Years 2-3 Years 0-1 Years 0-1 Years 1-2 Years
## [6637] 0-1 Years 6-7 Years 5-6 Years 5-6 Years 2-3 Years 1-2 Years
## [6643] 2-3 Years 0-1 Years 6-7 Years 0-1 Years 5-6 Years 6-7 Years
## [6649] 1-2 Years 0-1 Years 0-1 Years 2-3 Years 2-3 Years 2-3 Years
## [6655] 0-1 Years 6-7 Years 4-5 Years 5-6 Years 2-3 Years 6-7 Years
## [6661] 0-1 Years 6-7 Years 4-5 Years 0-1 Years 2-3 Years 4-5 Years
## [6667] 2-3 Years 0-1 Years 4-5 Years 2-3 Years 0-1 Years 5-6 Years
## [6673] 2-3 Years 0-1 Years 0-1 Years 2-3 Years 4-5 Years 1-2 Years
## [6679] 1-2 Years 5-6 Years 4-5 Years 0-1 Years 6-7 Years 4-5 Years
## [6685] 0-1 Years 4-5 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years
## [6691] 4-5 Years 4-5 Years 4-5 Years 2-3 Years 0-1 Years 6-7 Years
## [6697] 0-1 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years 2-3 Years
## [6703] 1-2 Years 0-1 Years 5-6 Years 1-2 Years 0-1 Years 6-7 Years
## [6709] 1-2 Years 5-6 Years 4-5 Years 5-6 Years 2-3 Years 6-7 Years
## [6715] 1-2 Years 0-1 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years
## [6721] 6-7 Years 5-6 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years
## [6727] 0-1 Years 1-2 Years 6-7 Years 6-7 Years 1-2 Years 1-2 Years
## [6733] 1-2 Years 2-3 Years 0-1 Years 6-7 Years 6-7 Years 6-7 Years
## [6739] 0-1 Years 0-1 Years 4-5 Years 0-1 Years 5-6 Years 0-1 Years
## [6745] 6-7 Years 5-6 Years 0-1 Years 5-6 Years 0-1 Years 6-7 Years
## [6751] 4-5 Years 5-6 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years
## [6757] 1-2 Years 5-6 Years 2-3 Years 5-6 Years 0-1 Years 0-1 Years
## [6763] 2-3 Years 6-7 Years 0-1 Years 6-7 Years 1-2 Years 5-6 Years
## [6769] 6-7 Years 4-5 Years 0-1 Years 2-3 Years 4-5 Years 4-5 Years
## [6775] 0-1 Years 5-6 Years 6-7 Years 0-1 Years 6-7 Years 2-3 Years
## [6781] 1-2 Years 0-1 Years 0-1 Years 1-2 Years 1-2 Years 6-7 Years
## [6787] 0-1 Years 2-3 Years 2-3 Years 0-1 Years 6-7 Years 1-2 Years
## [6793] 5-6 Years 6-7 Years 4-5 Years 5-6 Years 0-1 Years 2-3 Years
## [6799] 1-2 Years 6-7 Years 1-2 Years 1-2 Years 1-2 Years 4-5 Years
## [6805] 0-1 Years 6-7 Years 4-5 Years 0-1 Years 4-5 Years 0-1 Years
## [6811] 1-2 Years 0-1 Years 4-5 Years 6-7 Years 5-6 Years 6-7 Years
## [6817] 0-1 Years 6-7 Years 0-1 Years 5-6 Years 5-6 Years 1-2 Years
## [6823] 2-3 Years 0-1 Years 6-7 Years 2-3 Years 0-1 Years 5-6 Years
## [6829] 0-1 Years 0-1 Years 2-3 Years 0-1 Years 5-6 Years 1-2 Years
## [6835] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 1-2 Years 0-1 Years
## [6841] 0-1 Years 0-1 Years 1-2 Years 0-1 Years 2-3 Years 0-1 Years
## [6847] 0-1 Years 1-2 Years 0-1 Years 2-3 Years 6-7 Years 4-5 Years
## [6853] 4-5 Years 5-6 Years 0-1 Years 4-5 Years 5-6 Years 5-6 Years
## [6859] 2-3 Years 6-7 Years 4-5 Years 1-2 Years 0-1 Years 4-5 Years
## [6865] 0-1 Years 0-1 Years 0-1 Years 6-7 Years 1-2 Years 4-5 Years
## [6871] 5-6 Years 5-6 Years 6-7 Years 6-7 Years 2-3 Years 6-7 Years
```

```
## [6877] 6-7 Years 0-1 Years 0-1 Years 1-2 Years 6-7 Years 2-3 Years
## [6883] 6-7 Years 2-3 Years 0-1 Years 0-1 Years 0-1 Years 2-3 Years
## [6889] 0-1 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years 0-1 Years
## [6895] 0-1 Years 5-6 Years 0-1 Years 6-7 Years 1-2 Years 0-1 Years
## [6901] 5-6 Years 2-3 Years 5-6 Years 2-3 Years 6-7 Years 2-3 Years
## [6907] 2-3 Years 4-5 Years 0-1 Years 0-1 Years 6-7 Years 5-6 Years
## [6913] 0-1 Years 6-7 Years 4-5 Years 6-7 Years 4-5 Years 6-7 Years
## [6919] 2-3 Years 5-6 Years 2-3 Years 5-6 Years 0-1 Years 5-6 Years
## [6925] 0-1 Years 1-2 Years 5-6 Years 0-1 Years 4-5 Years 2-3 Years
## [6931] 0-1 Years 5-6 Years 0-1 Years 0-1 Years 6-7 Years 6-7 Years
## [6937] 0-1 Years 2-3 Years 6-7 Years 2-3 Years 6-7 Years 6-7 Years
## [6943] 6-7 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years 6-7 Years
## [6949] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 4-5 Years 1-2 Years
## [6955] 1-2 Years 0-1 Years 6-7 Years 0-1 Years 1-2 Years 4-5 Years
## [6961] 4-5 Years 1-2 Years 2-3 Years 0-1 Years 5-6 Years 6-7 Years
## [6967] 5-6 Years 2-3 Years 1-2 Years 0-1 Years 0-1 Years 1-2 Years
## [6973] 5-6 Years 5-6 Years 5-6 Years 1-2 Years 6-7 Years 1-2 Years
## [6979] 6-7 Years 0-1 Years 1-2 Years 0-1 Years 6-7 Years 1-2 Years
## [6985] 2-3 Years 4-5 Years 2-3 Years 2-3 Years 1-2 Years 1-2 Years
## [6991] 2-3 Years 0-1 Years 6-7 Years 5-6 Years 4-5 Years 5-6 Years
## [6997] 4-5 Years 2-3 Years 1-2 Years 0-1 Years 6-7 Years 0-1 Years
## [7003] 6-7 Years 2-3 Years 4-5 Years 1-2 Years 4-5 Years 6-7 Years
## [7009] 0-1 Years 1-2 Years 0-1 Years 0-1 Years 6-7 Years 4-5 Years
## [7015] 4-5 Years 2-3 Years 0-1 Years 5-6 Years 0-1 Years 4-5 Years
## [7021] 0-1 Years 0-1 Years 6-7 Years 6-7 Years 4-5 Years 1-2 Years
## [7027] 0-1 Years 1-2 Years 6-7 Years 0-1 Years 0-1 Years 5-6 Years
## [7033] 0-1 Years 4-5 Years 6-7 Years 1-2 Years 0-1 Years 6-7 Years
## [7039] 1-2 Years 6-7 Years 0-1 Years 0-1 Years 6-7 Years
## Levels: 0-1 Years 1-2 Years 2-3 Years 4-5 Years 5-6 Years 6-7 Years
```

```r
tablechurn$Tenure_Range <- cut(tablechurn$Tenure_Range,6,labels = c('0-1
Years','1-2 Years','2-3 Years','4-5 Years','5-6 Years','6-7 Years'))

#Checking if there are any NULL values in any of the columns
table(is.na(tablechurn))
```

```
##
## FALSE    TRUE
## 154935     11
```

```r
str_detect(tablechurn,'NA')
```

```
## Warning in stri_detect_regex(string, pattern, negate = negate, opts_regex
=
## opts(pattern)): argument is not an atomic vector; coercing
```

```
##  [1] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
## [12] FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE  TRUE FALSE FALSE
```

```r
setDT(tablechurn)
tablechurn[is.na(TotalCharges),NROW(TotalCharges)]
```

```
## [1] 11

#There are 11 rows out of 7043 rows that have null values.Hence removing
these rows since they are only 0.15% of total so we can afford to drop them

tablechurn <- tablechurn[complete.cases(tablechurn), ]

#Replacing 'No Internet Service' values in OnlineSecurity,OnlineBackup
DeviceProtection,TechSupport,StreamingTV and StreamingMovies columns with
'No'

tablechurn$OnlineSecurity[tablechurn$OnlineSecurity=='No internet service']
<- 'No'
tablechurn$OnlineBackup[tablechurn$OnlineBackup=='No internet service'] <-
'No'
tablechurn$DeviceProtection[tablechurn$DeviceProtection=='No internet
service'] <- 'No'
tablechurn$TechSupport[tablechurn$TechSupport=='No internet service'] <- 'No'
tablechurn$StreamingTV[tablechurn$StreamingTV=='No internet service'] <- 'No'
tablechurn$StreamingMovies[tablechurn$StreamingMovies=='No internet service']
<- 'No'

#Deleting the unused levels from the factor variables

tablechurn$OnlineSecurity <- factor(tablechurn$OnlineSecurity)
tablechurn$OnlineBackup <- factor(tablechurn$OnlineBackup)
tablechurn$DeviceProtection <- factor(tablechurn$DeviceProtection)
tablechurn$TechSupport <- factor(tablechurn$TechSupport)
tablechurn$StreamingTV <- factor(tablechurn$StreamingTV)

## Exploratory Data Analysis

b1<-ggplot(tablechurn,aes(Gender,fill=Churn))+geom_bar(position = 'fill')
b1
```
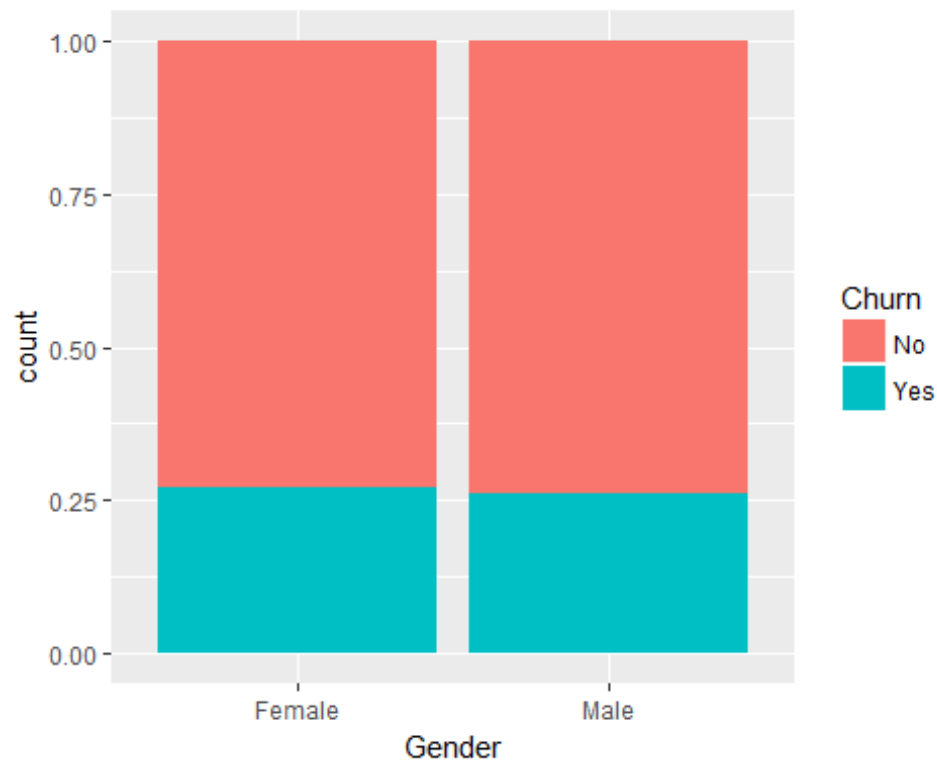
```
b2<-ggplot(tablechurn,aes(SeniorCitizen,fill=Churn))+geom_bar(position =
'fill')
b2
```
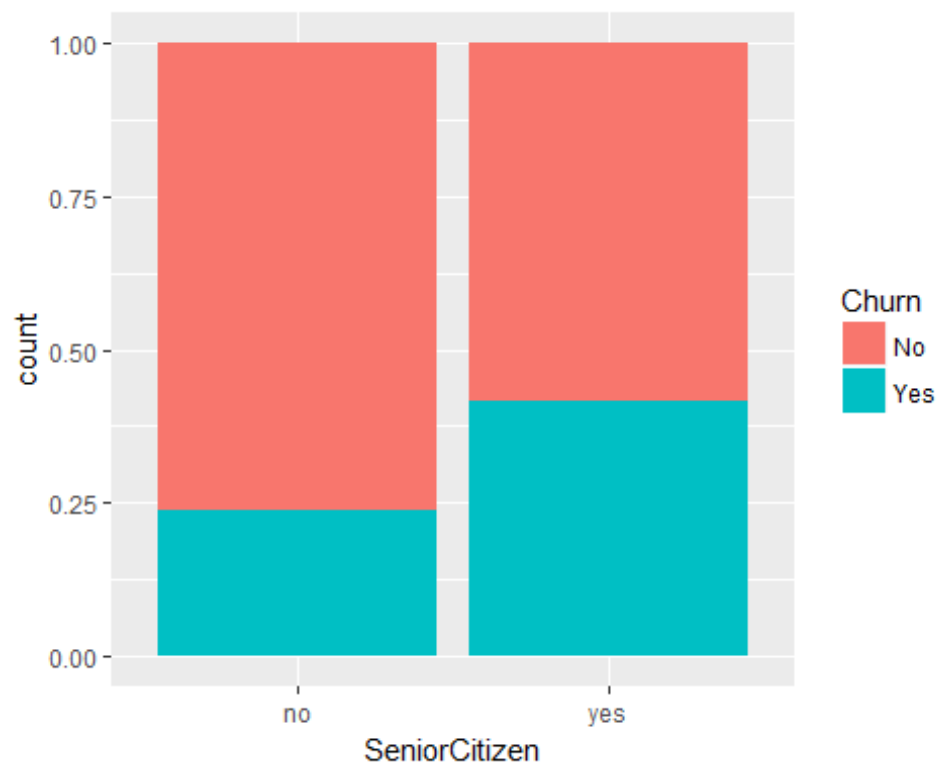
```r
b3<-ggplot(tablechurn,aes(Partner,fill=Churn))+geom_bar(position = 'fill')
b3
```
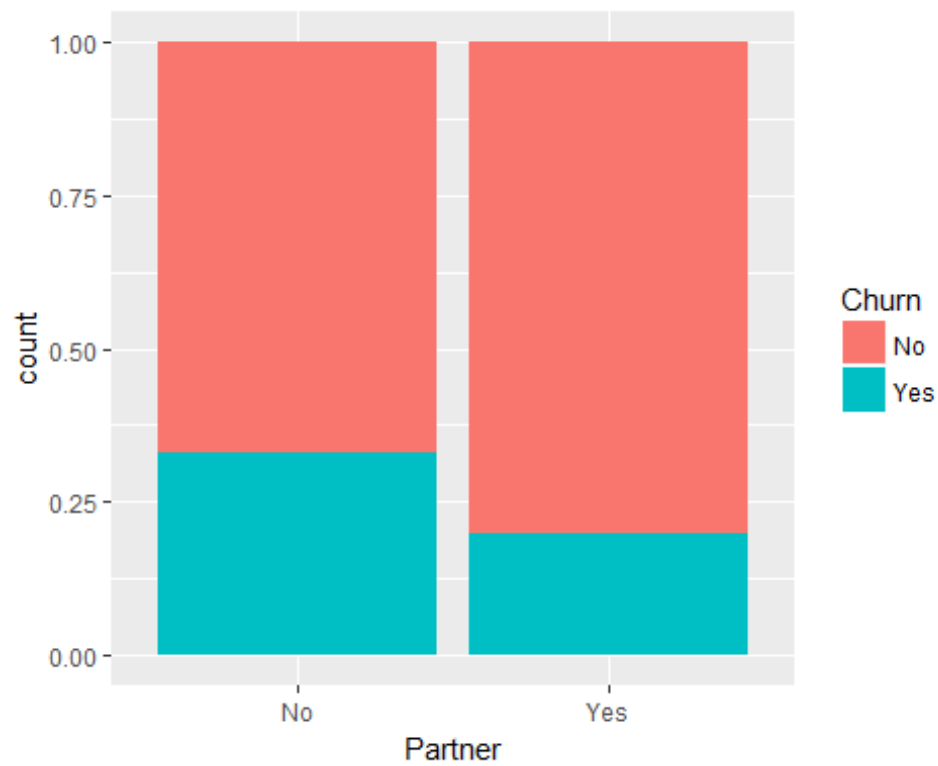


```r
b4<-ggplot(tablechurn,aes(Dependents,fill=Churn))+geom_bar(position = 'fill')
b4
```
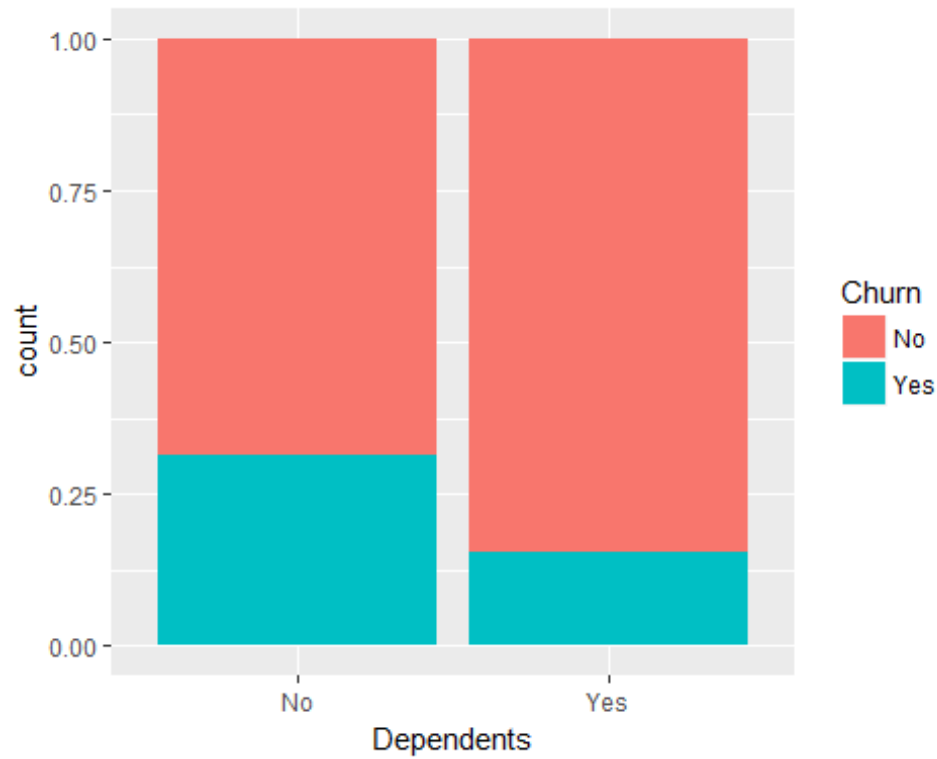
```
b5<-ggplot(tablechurn,aes(PhoneService,fill=Churn))+geom_bar(position =
'fill')
b5
```
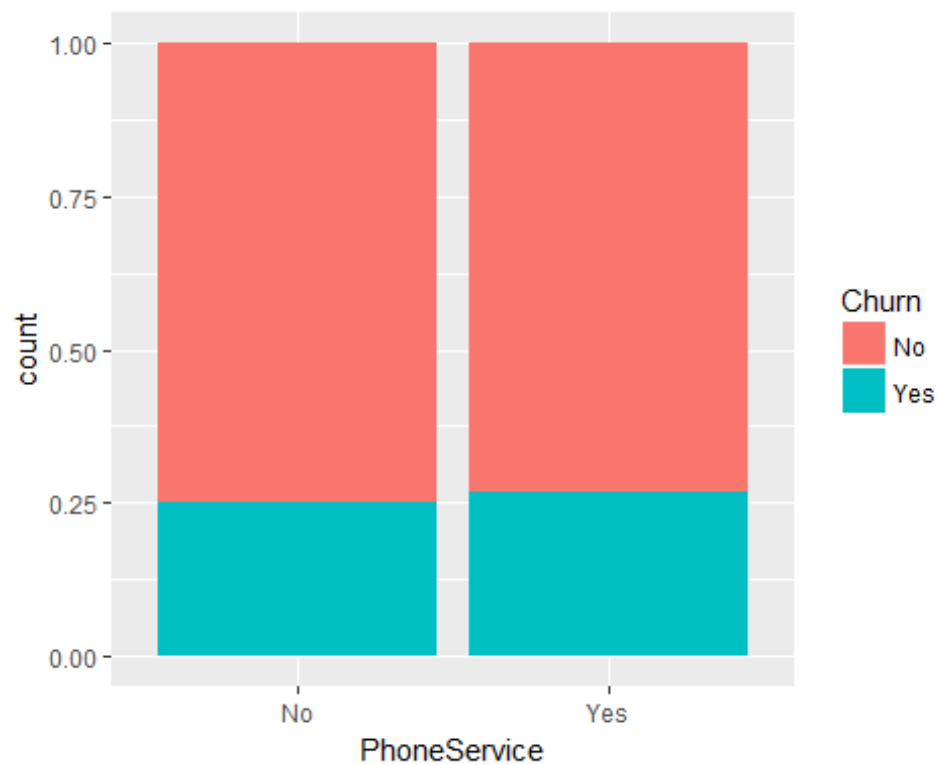
```
b6<-ggplot(tablechurn,aes(MultipleLines,fill=Churn))+geom_bar(position =
'fill')
b6
```
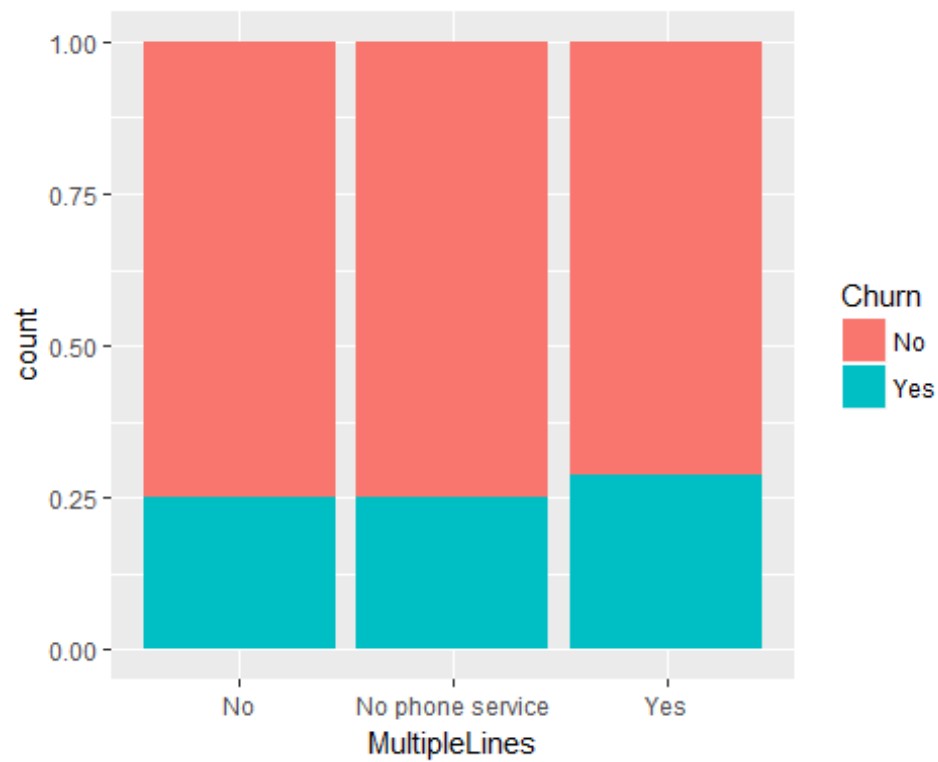


```
b7<-ggplot(tablechurn,aes(InternetService,fill=Churn))+geom_bar(position =
'fill')
b7
```
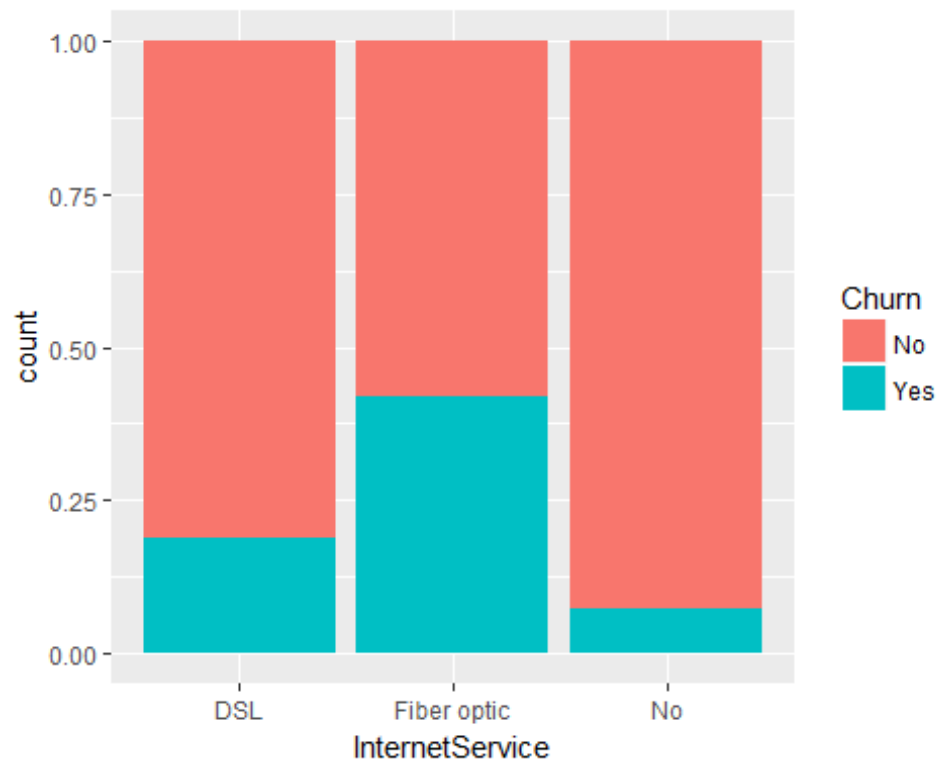
```
b8<-ggplot(tablechurn,aes(OnlineSecurity,fill=Churn))+geom_bar(position =
'fill')
b8
```
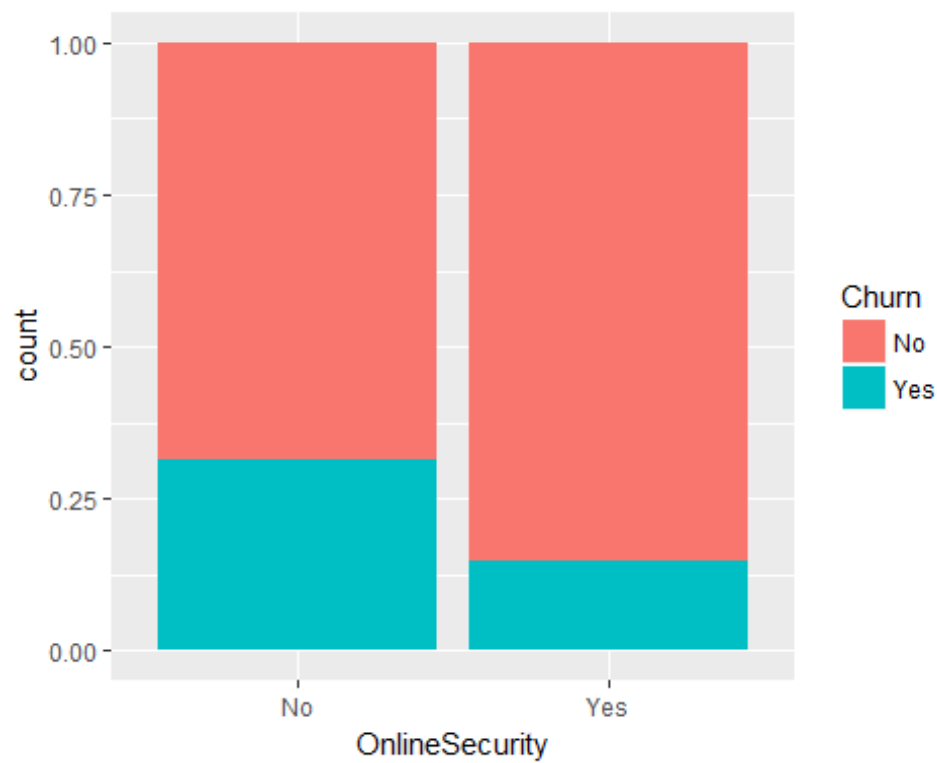
```
b9<-ggplot(tablechurn,aes(OnlineBackup,fill=Churn))+geom_bar(position =
'fill')
b9
```
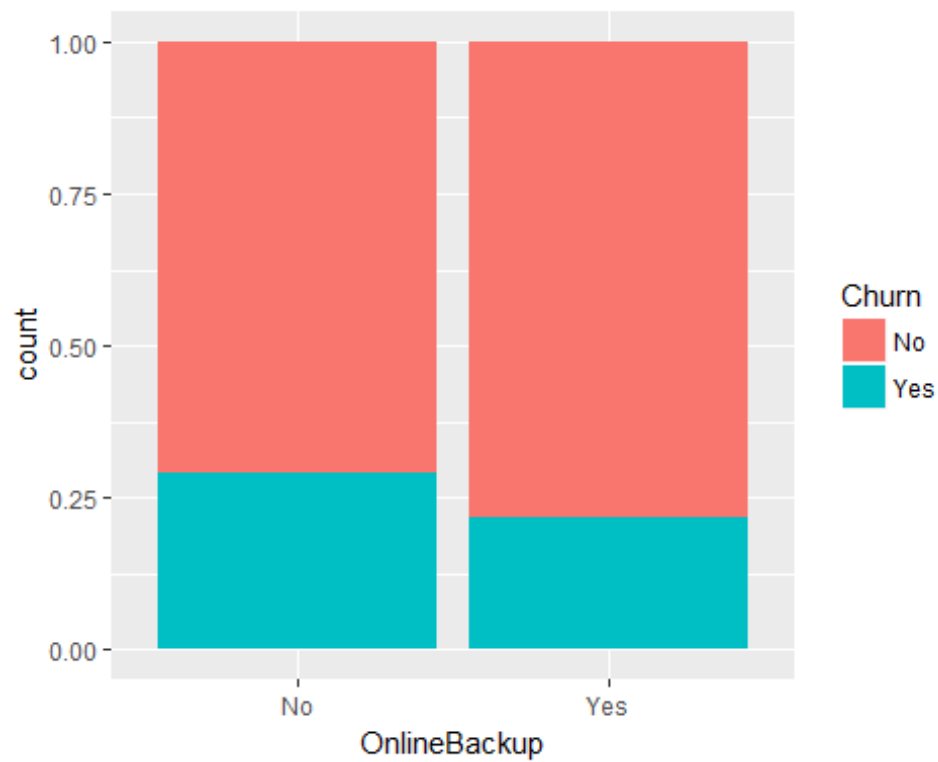


```
b10<-ggplot(tablechurn,aes(DeviceProtection,fill=Churn))+geom_bar(position =
'fill')
b10
```
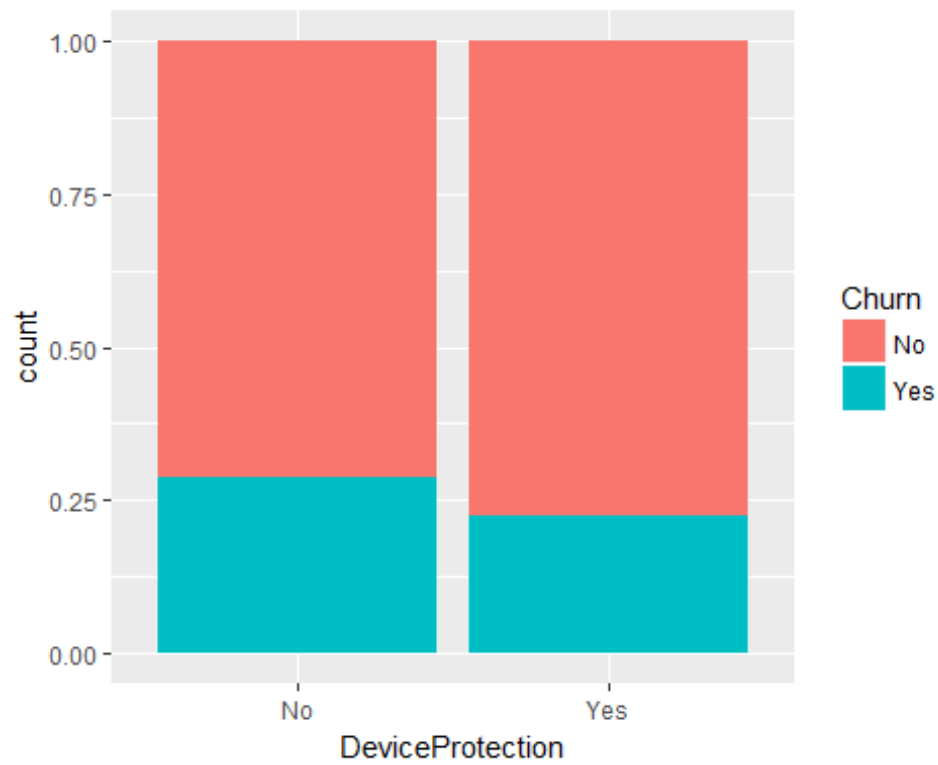
```
b11<-ggplot(tablechurn,aes(TechSupport,fill=Churn))+geom_bar(position =
'fill')
b11
```
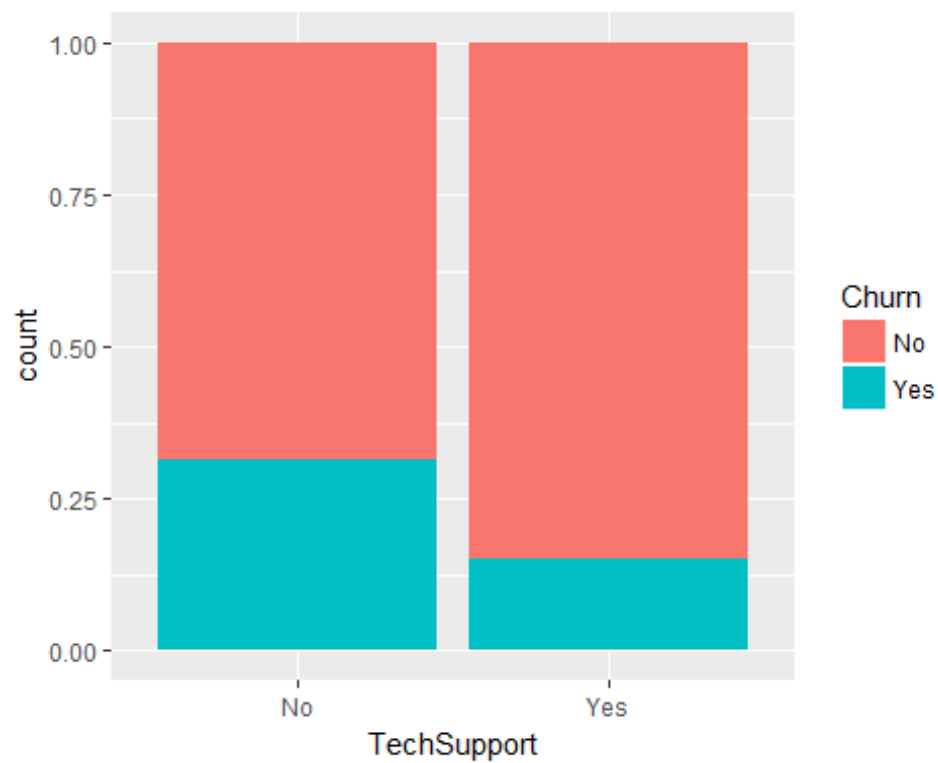
```
b12<-ggplot(tablechurn,aes(StreamingTV,fill=Churn))+geom_bar(position =
'fill')
b12
```
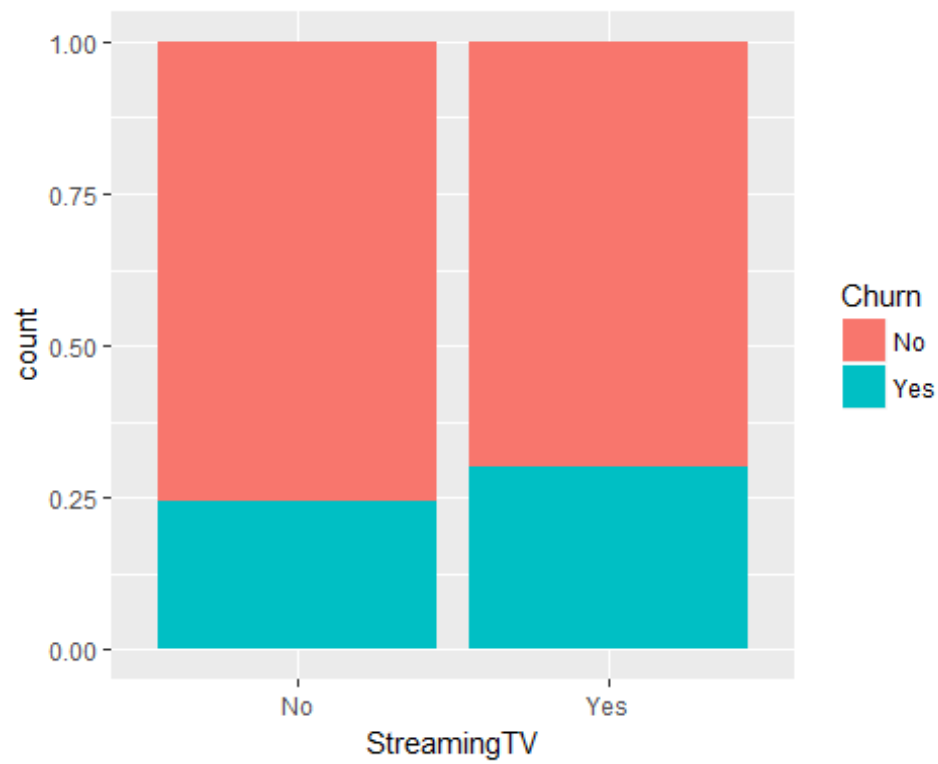


```
b13<-ggplot(tablechurn,aes(StreamingMovies,fill=Churn))+geom_bar(position =
'fill')
b13
```
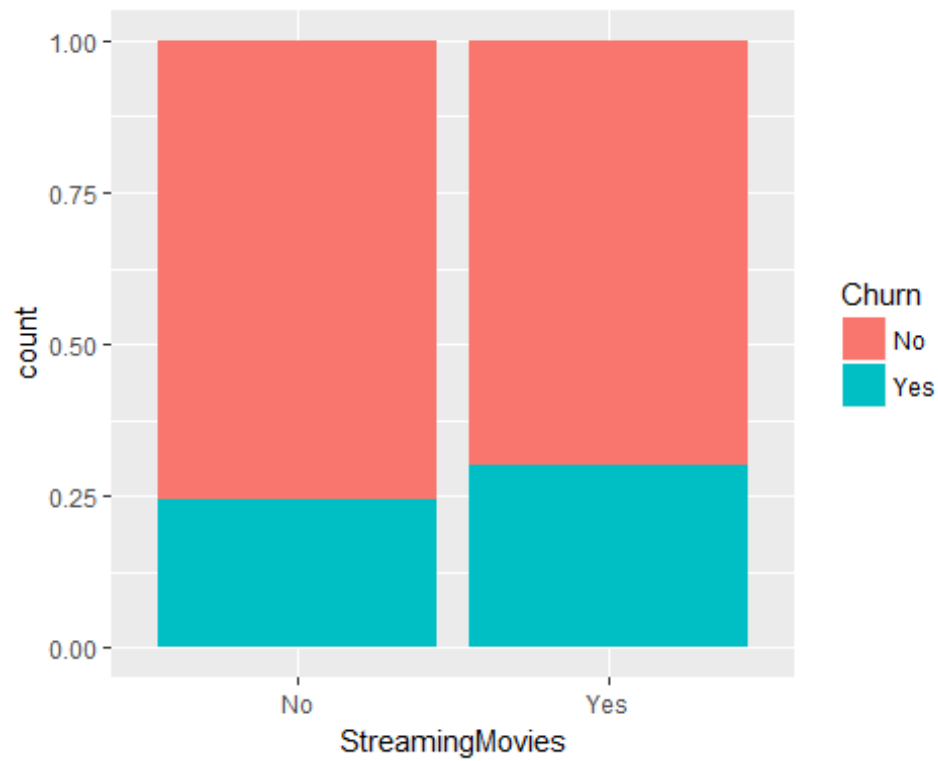
```
b14<-ggplot(tablechurn,aes(Contract,fill=Churn))+geom_bar(position = 'fill')
b14
```
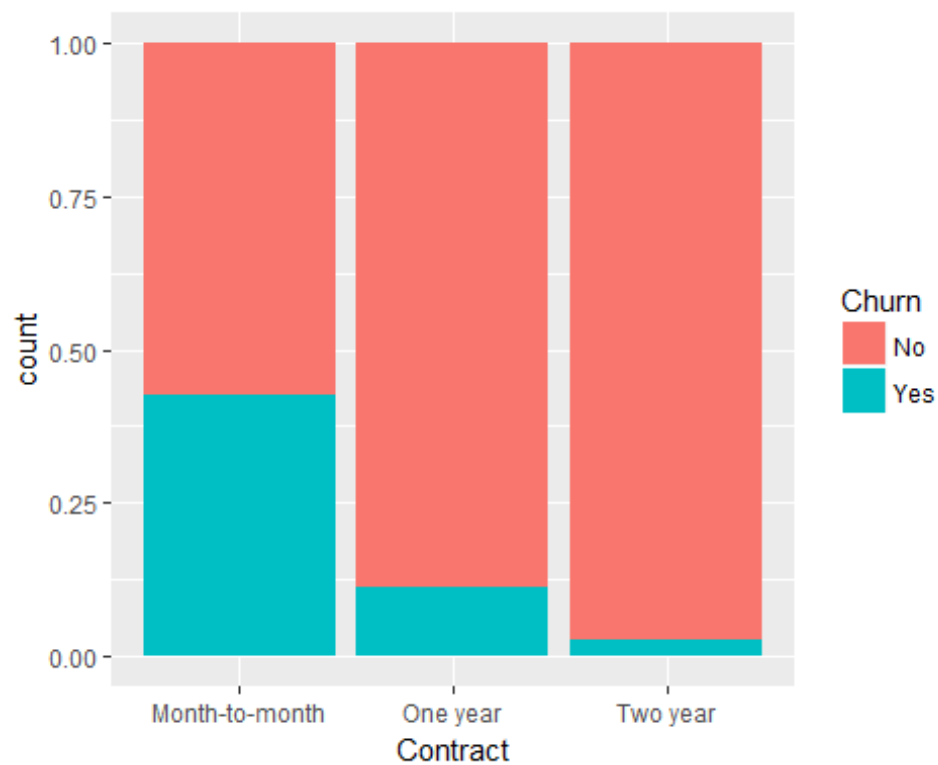
```
b15<-ggplot(tablechurn,aes(PaperlessBilling,fill=Churn))+geom_bar(position =
'fill')
b15
```
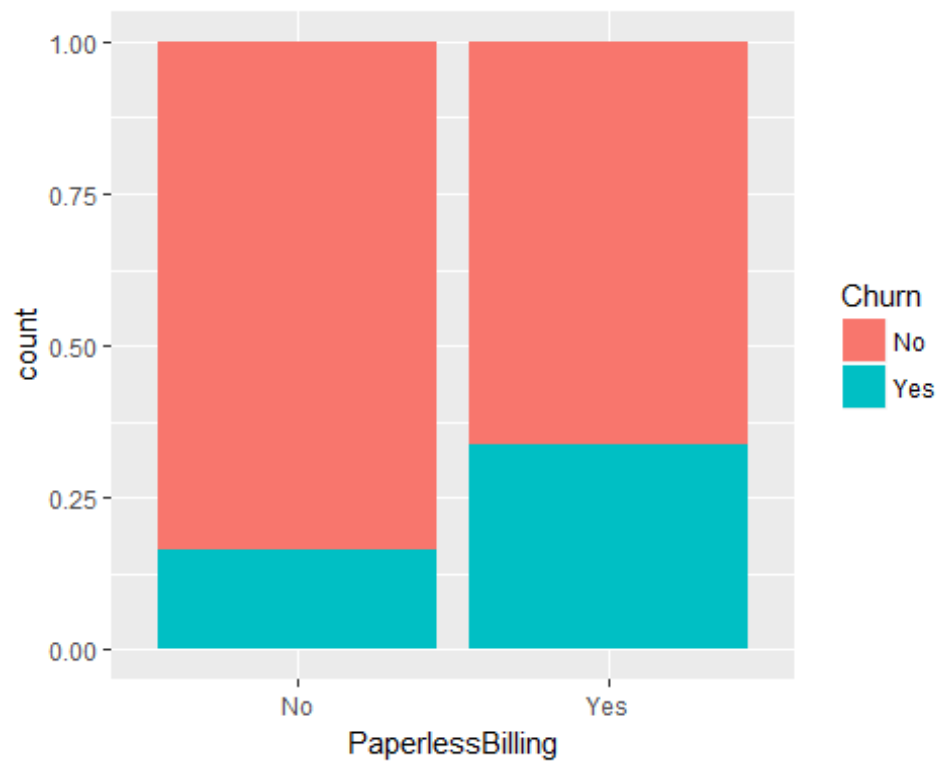


```
b16<-ggplot(tablechurn,aes(PaymentMethod,fill=Churn))+geom_bar(position =
'fill')
b16
```
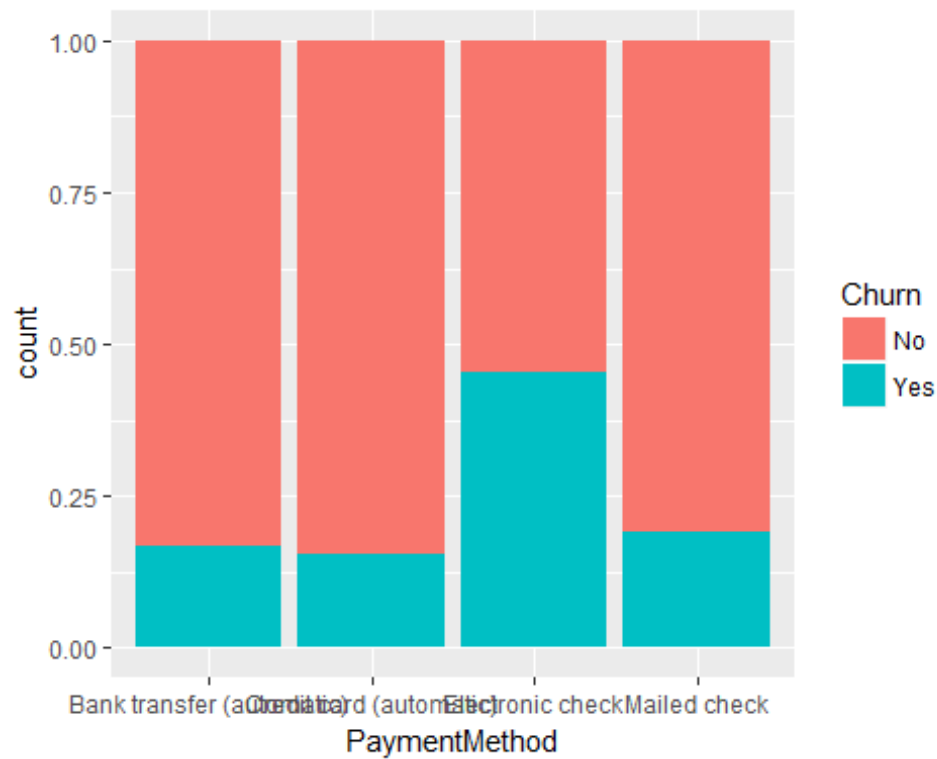
```
grid.arrange(b1,b2,b3, ncol= 1)
```
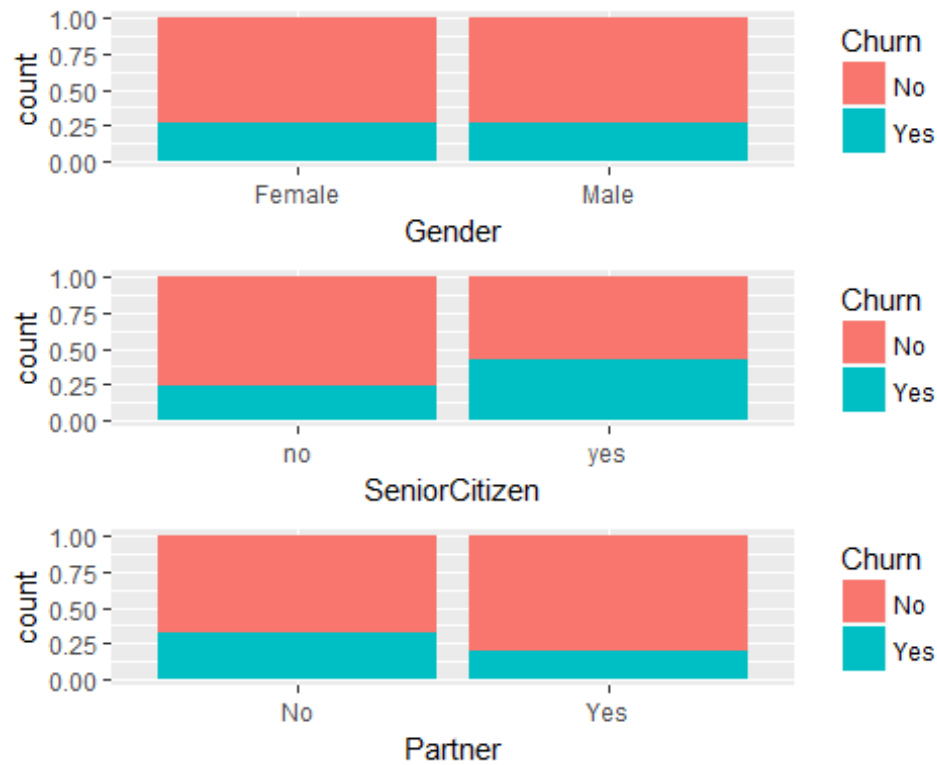


```
grid.arrange(b4,b5,b6,ncol = 1)
```
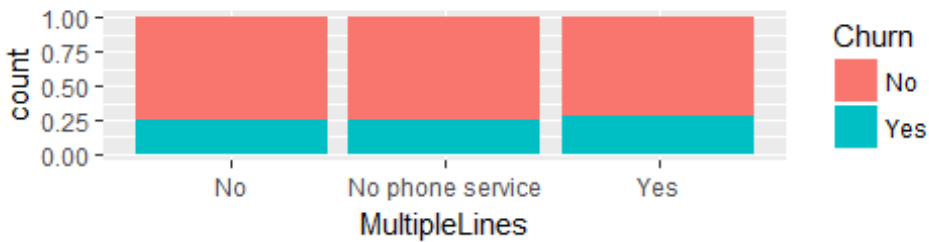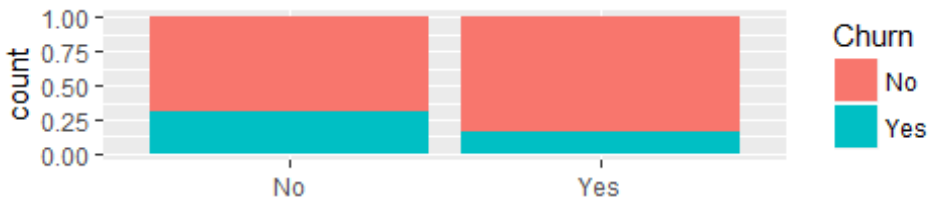
```
grid.arrange(b7,b8,b9,b10, ncol = 1)
```
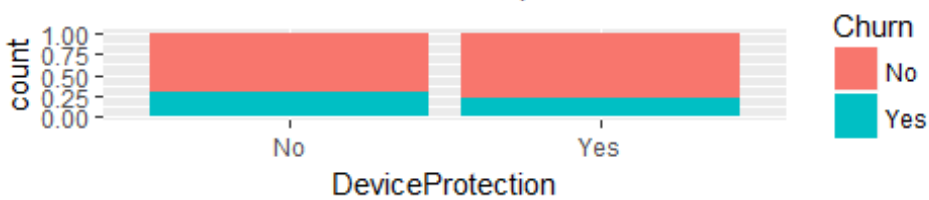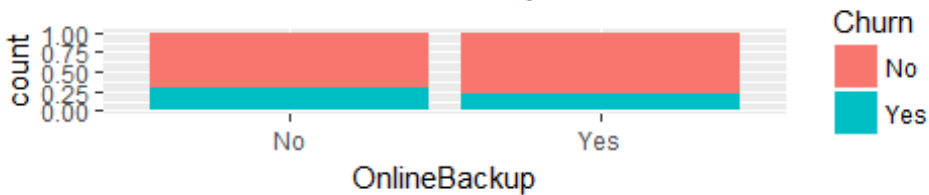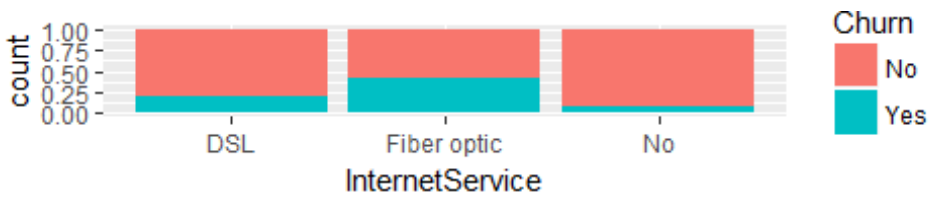


```
grid.arrange(b11,b12,b13,b14,b15, ncol = 1)
```
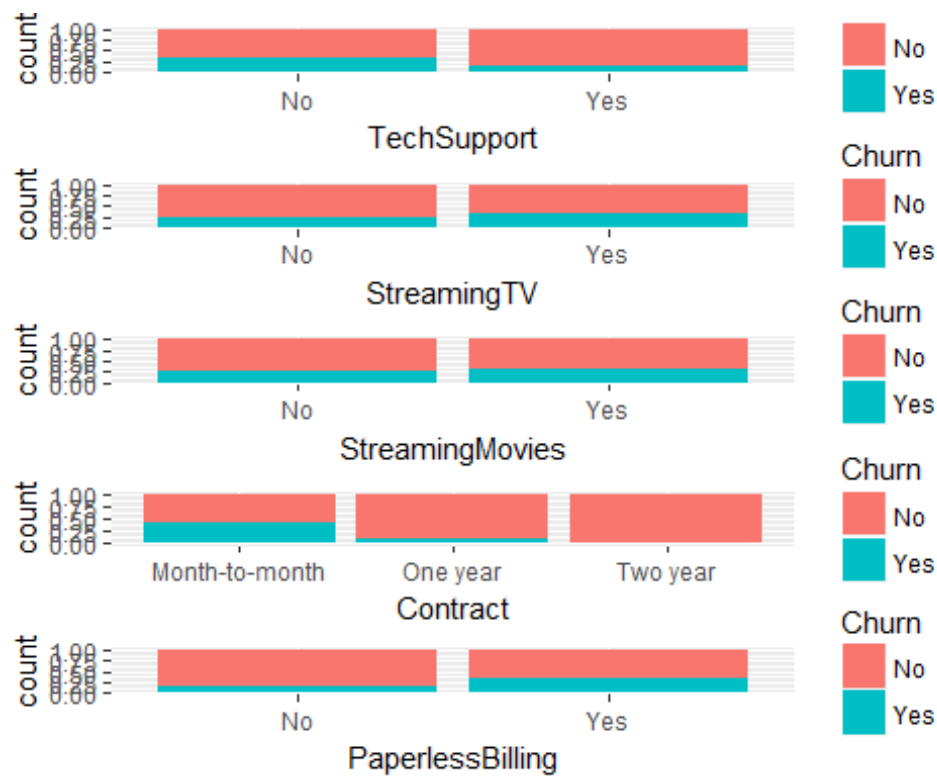
```
boxplot(tablechurn$TotalCharges,data=tablechurn,main="Total Charges")
```

Total Charges
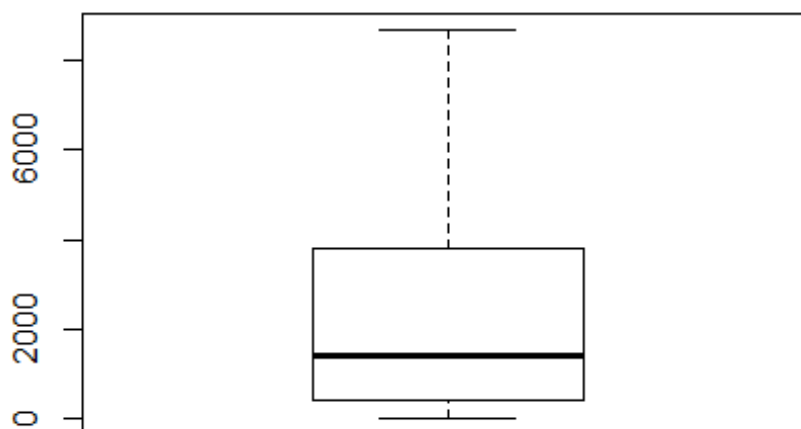

```
boxplot(tablechurn$MonthlyCharges,data=tablechurn,main="Monthly Charges")
```

Monthly Charges
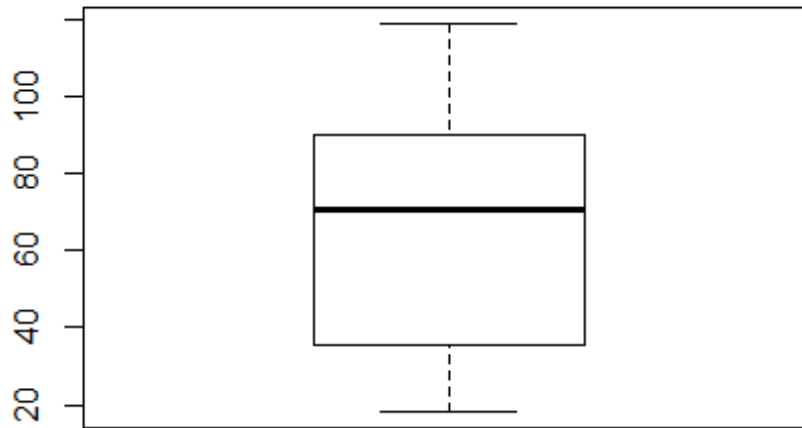

```
boxplot(tablechurn$Tenure,data=tablechurn,main="Tenure")
```

Tenure
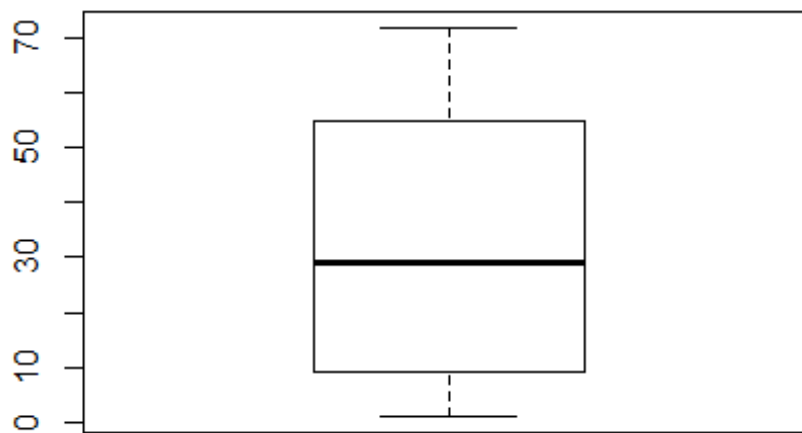
```
c1<-boxplot(Tenure~Churn,data=tablechurn,col=c("skyblue","green"),xlab=
"churn",ylab="tenure")
```
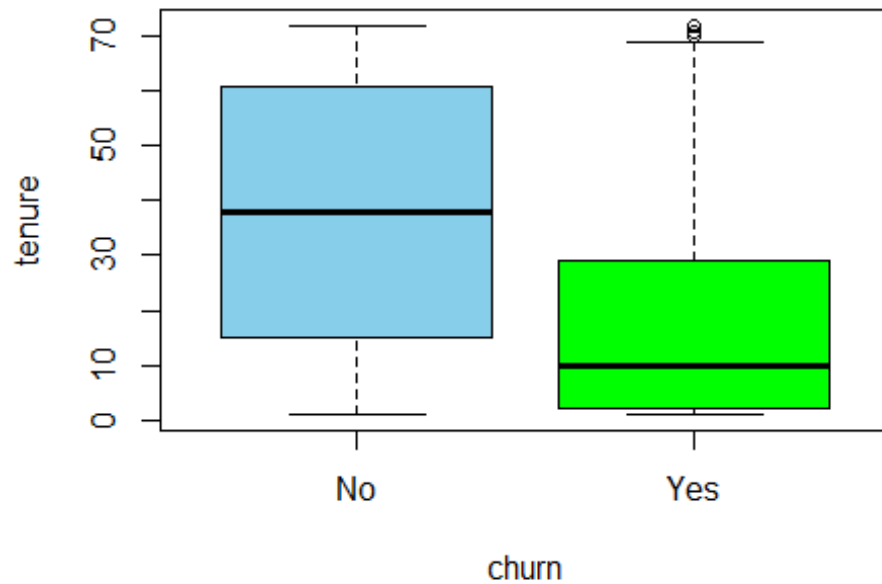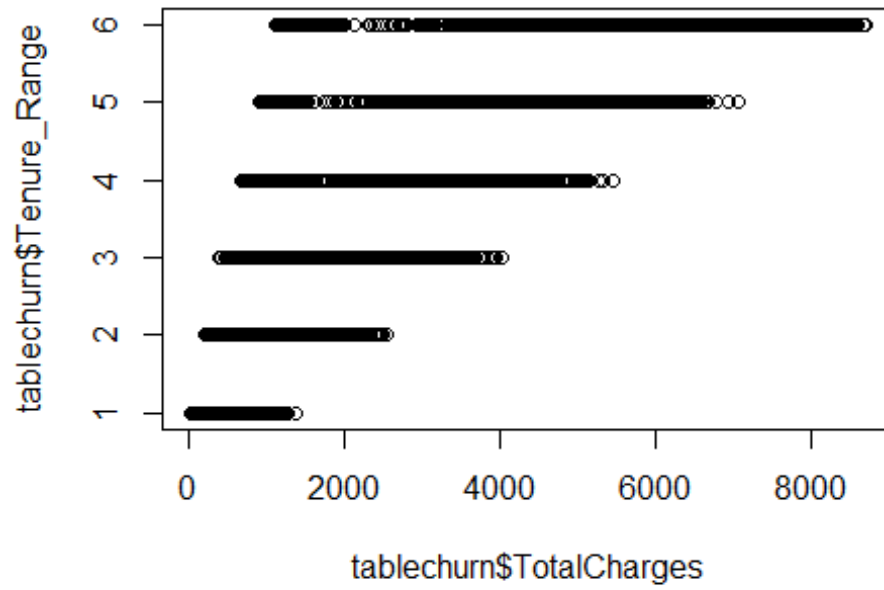


```
c2<-
boxplot(MonthlyCharges~Churn,data=tablechurn,col=c("skyblue","green"),xlab=
"churn",ylab="MonthlyCharges")
```
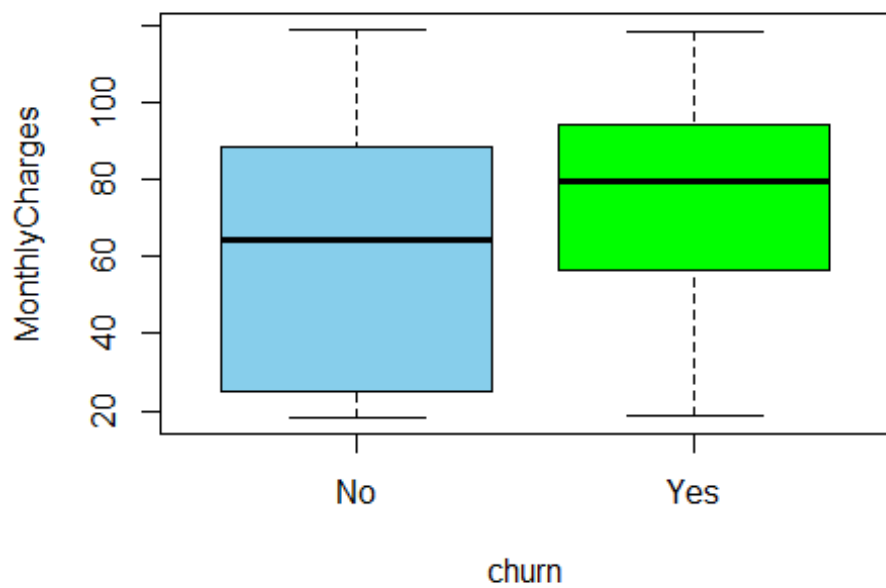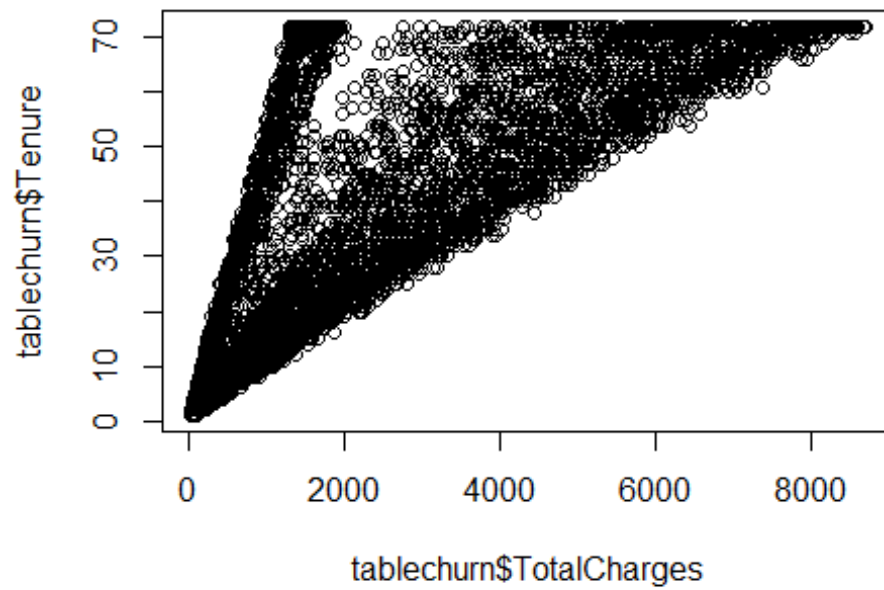
```r
c3<-boxplot(TotalCharges~Churn,data=tablechurn,col=c("skyblue","green"),xlab=
"churn",ylab="TotalCharges")
```
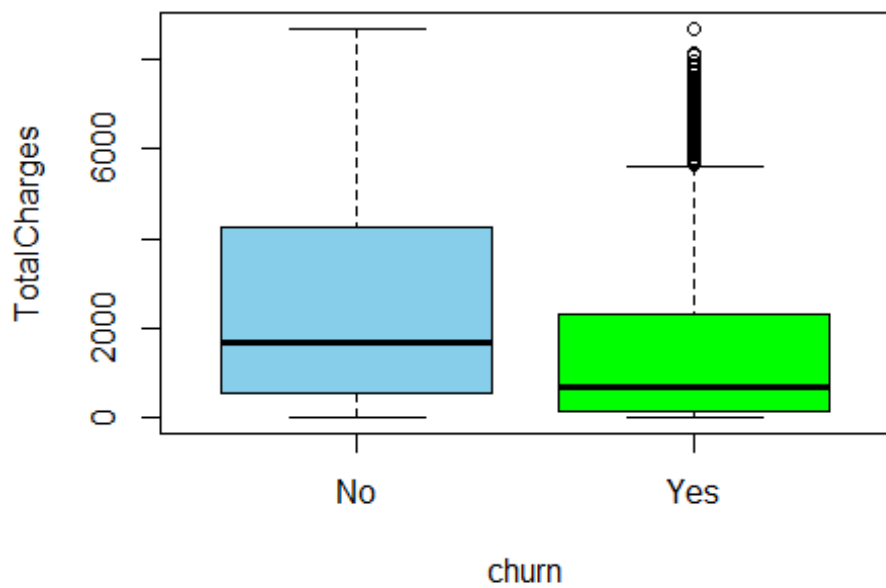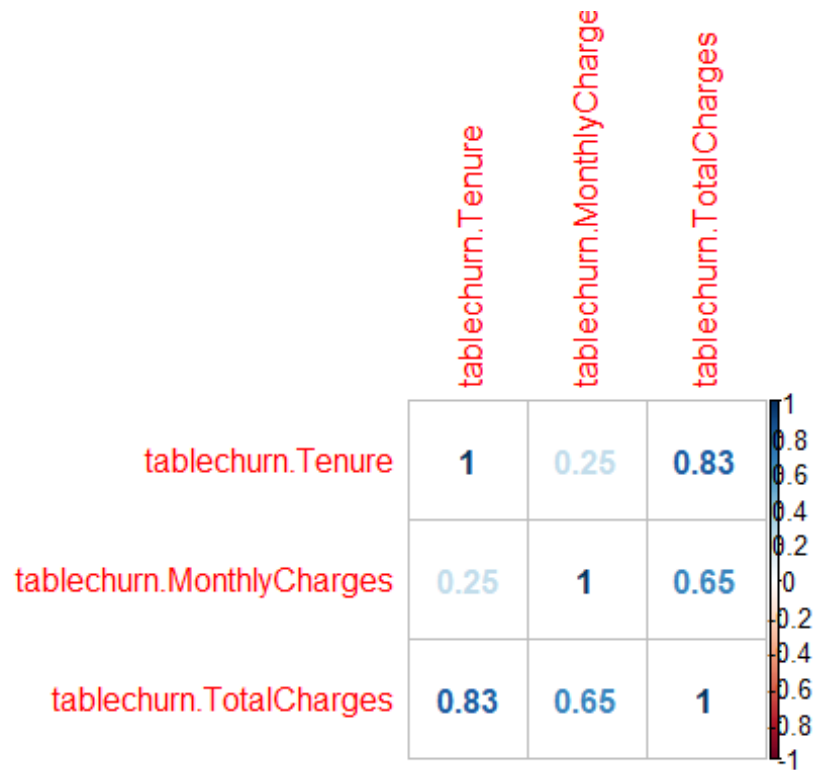
```r
plot(tablechurn$TotalCharges,tablechurn$Tenure_Range)
```



```r
plot(tablechurn$TotalCharges,tablechurn$Tenure)
```

```
## Correlation Matrix
corr_data<-
data.frame(tablechurn$Tenure,tablechurn$MonthlyCharges,tablechurn$TotalCharge
s)
corr<-cor(corr_data)
corrplot(corr,method = "number")
```



```
hist(tablechurn$Tenure,main ="Tenure Distribution",xlab ="Tenure(Years)")
```

Tenure Distribution