#7TotaldescriptivaClean5.Rmd #install.packages(“rmarkdown”) #library(“rmarkdown”)

READING CREDSCO.CSV. NOTE: Change the path of the file for the proper one in your computer.

Remember that subfolders must be indicated by “/” and not by “"

Here you can write the introduction of your report and include some text that will be transferred to the word file every time you re-run this Markdown

WARNING: data must have been properly declared before (factors, dates…)

# dd <- read.table("D:/karina/docencia/areferenciesPPT/0DadesPractiques/CREDSCO/credscoCategoriques2.csv",header=T, sep=";", dec=",")  
#dd<- read.csv("D:/karina/TFGs/GrauEstadistica/MarcPinar/data.csv", sep=";")  
  
#dataset<-"platjaDaro"  
#dataset<-"futbol"  
  
#setwd("D:/karina/projectes/ON/a2020INSESSCOVIDisocial/18DadesTallers")  
#dd<- read.table("2Formulari5TPlataDarov1.csv",header=T, sep=",", dec=".", na.strings="\*");  
#dataset<-"planta"  
  
dataset<-"Hotel"

Set the folder where the word file is going to be generated

setwd("/Users/davidmorais/Desktop/PARS-GEI-FIB/Obligatories/Q7/MD")  
dd<- read.table("hotel\_sample\_5000.csv",header=T, sep=",", dec=".")

Check the type of the R object created for the dataset

class(dd)

## [1] "data.frame"

without including the R instruction in the final document

## [1] "data.frame"

Get dimensions of the dataset

dim(dd)

## [1] 5000 31

n<-dim(dd)[1]  
K<-dim(dd)[2]  
  
n

## [1] 5000

K

## [1] 31

Check the variables

names(dd)

## [1] "hotel" "canceled" "lead\_time"   
## [4] "year" "month" "week"   
## [7] "day" "weekend\_nights" "week\_nights"   
## [10] "adults" "children" "babies"   
## [13] "meal" "country" "market\_seg"   
## [16] "channel" "repeated" "pre\_cancel"   
## [19] "pre\_bcn" "rroom\_type" "assroom\_type"   
## [22] "changes" "deposit\_type" "agent"   
## [25] "days\_wait" "customer\_type" "adr"   
## [28] "rcar\_parking\_spaces" "ts\_requests" "r\_status"   
## [31] "rs\_date"

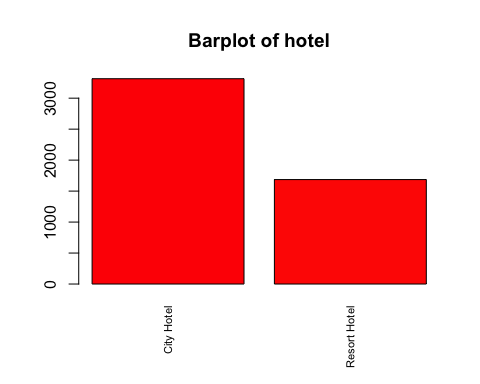
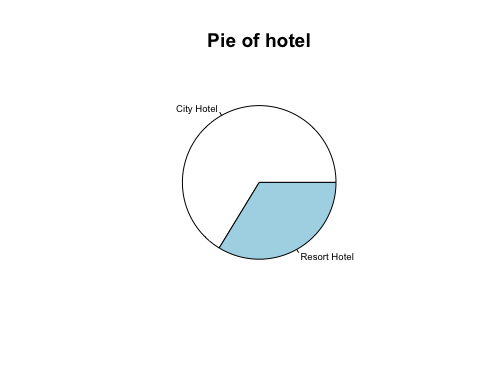
Decide if you need to declare some more factor or date

descriptiva<-function(X, nom){  
 if (!(is.numeric(X) || class(X)=="Date")){   
 frecs<-table(as.factor(X), useNA="ifany")  
 proportions<-frecs/n  
 #ojo, decidir si calcular porcentages con o sin missing values  
 pie(frecs, cex=0.6, main=paste("Pie of", nom))  
 barplot(frecs, las=3, cex.names=0.7, main=paste("Barplot of", nom), col=listOfColors)  
 print(paste("Number of modalities: ", length(frecs)))  
 print("Frequency table")  
 print(frecs)  
 print("Relative frequency table (proportions)")  
 print(proportions)  
 print("Frequency table sorted")  
 print(sort(frecs, decreasing=TRUE))  
 print("Relative frequency table (proportions) sorted")  
 print(sort(proportions, decreasing=TRUE))  
 }else{  
 if(class(X)=="Date"){  
 print(summary(X))  
 print(sd(X))  
 #decide breaks: weeks, months, quarters...  
 hist(X,breaks="weeks")  
 }else{  
 hist(X, main=paste("Histogram of", nom))  
 boxplot(X, horizontal=TRUE, main=paste("Boxplot of",nom))  
 print("Extended Summary Statistics")  
 print(summary(X))  
 print(paste("sd: ", sd(X, na.rm=TRUE)))  
 print(paste("vc: ", sd(X, na.rm=TRUE)/mean(X, na.rm=TRUE)))  
 }  
 }  
}  
  
dataset<-dd  
actives<-c(1:K)  
colDate<-1

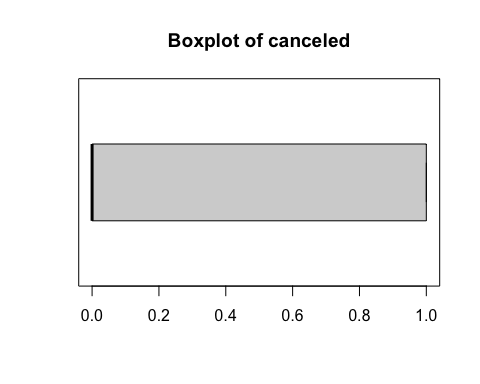
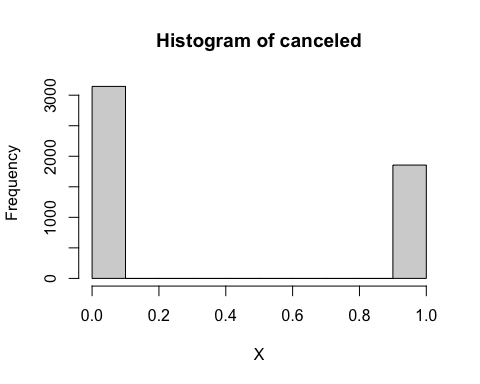
Basic descriptive analysis for numerical variables

(decide the maximum number of colors you can need in a graph based on your metadata file)

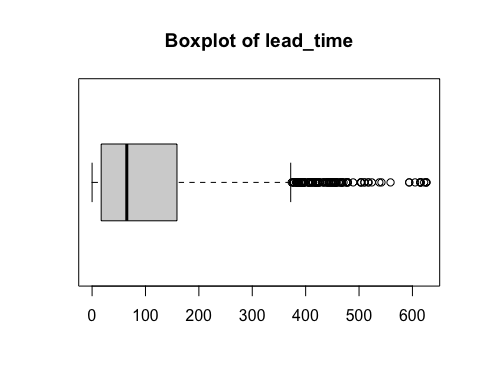
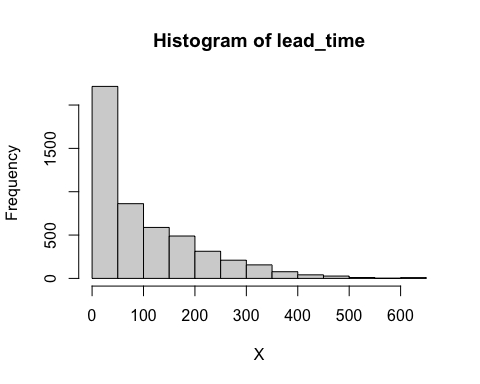
## [1] "variable 1 : hotel"



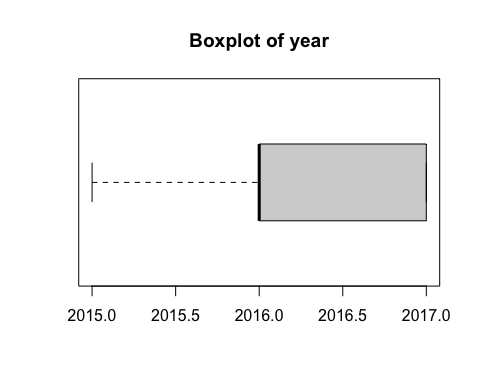
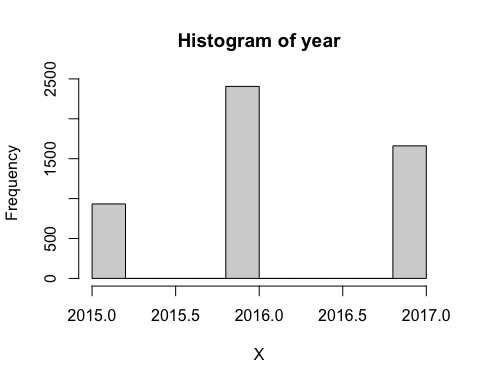
## [1] "Number of modalities: 2"  
## [1] "Frequency table"  
##   
## City Hotel Resort Hotel   
## 3314 1686   
## [1] "Relative frequency table (proportions)"  
##   
## City Hotel Resort Hotel   
## 0.6628 0.3372   
## [1] "Frequency table sorted"  
##   
## City Hotel Resort Hotel   
## 3314 1686   
## [1] "Relative frequency table (proportions) sorted"  
##   
## City Hotel Resort Hotel   
## 0.6628 0.3372   
## [1] "variable 2 : canceled"



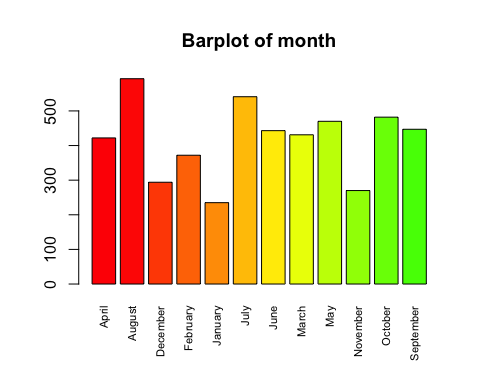
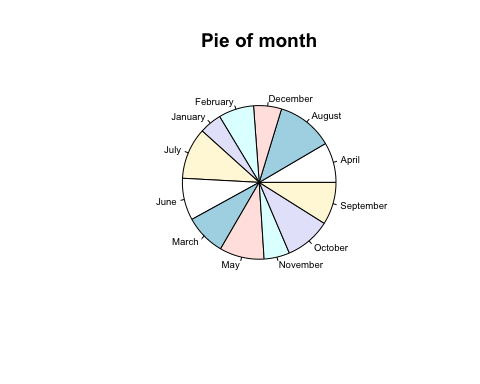
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.0000 0.0000 0.0000 0.3712 1.0000 1.0000   
## [1] "sd: 0.483174141951212"  
## [1] "vc: 1.30165447723926"  
## [1] "variable 3 : lead\_time"



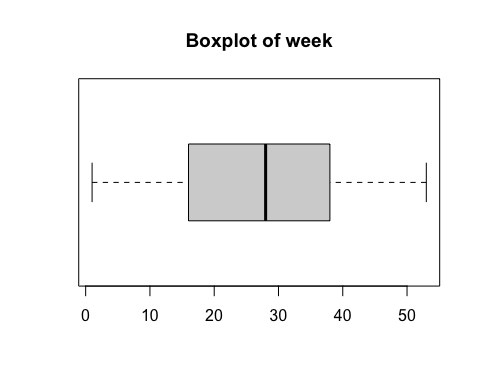
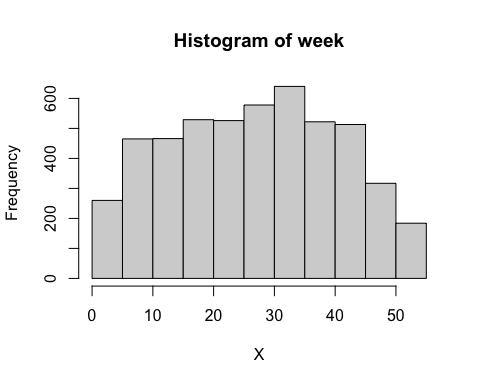
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.0 17.0 65.0 101.7 159.0 626.0   
## [1] "sd: 107.203701323954"  
## [1] "vc: 1.0545795041282"  
## [1] "variable 4 : year"



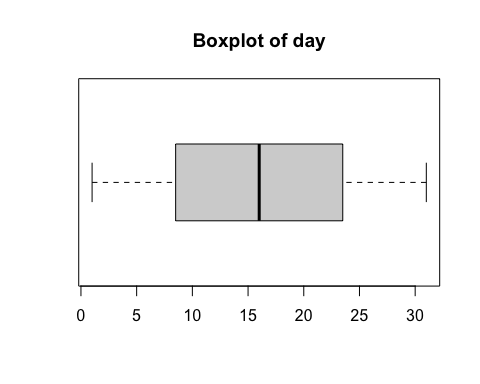
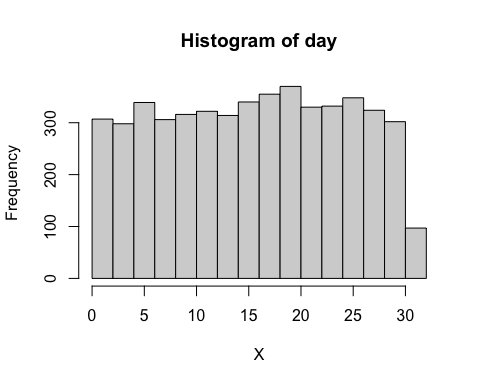
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 2015 2016 2016 2016 2017 2017   
## [1] "sd: 0.705478688576776"  
## [1] "vc: 0.000349914554076241"  
## [1] "variable 5 : month"



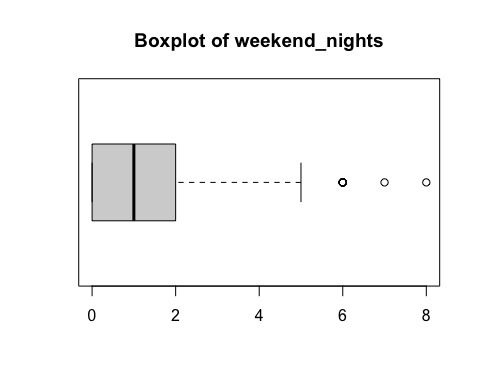
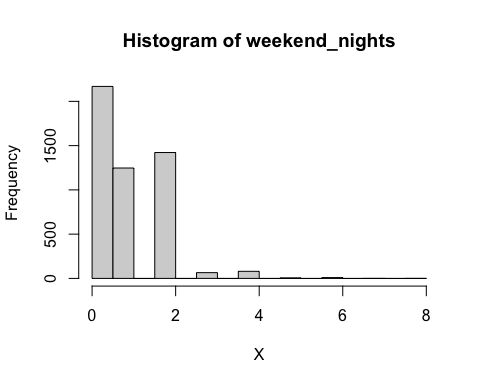
## [1] "Number of modalities: 12"  
## [1] "Frequency table"  
##   
## April August December February January July June March   
## 422 593 294 372 235 541 443 431   
## May November October September   
## 470 270 482 447   
## [1] "Relative frequency table (proportions)"  
##   
## April August December February January July June March   
## 0.0844 0.1186 0.0588 0.0744 0.0470 0.1082 0.0886 0.0862   
## May November October September   
## 0.0940 0.0540 0.0964 0.0894   
## [1] "Frequency table sorted"  
##   
## August July October May September June March April   
## 593 541 482 470 447 443 431 422   
## February December November January   
## 372 294 270 235   
## [1] "Relative frequency table (proportions) sorted"  
##   
## August July October May September June March April   
## 0.1186 0.1082 0.0964 0.0940 0.0894 0.0886 0.0862 0.0844   
## February December November January   
## 0.0744 0.0588 0.0540 0.0470   
## [1] "variable 6 : week"



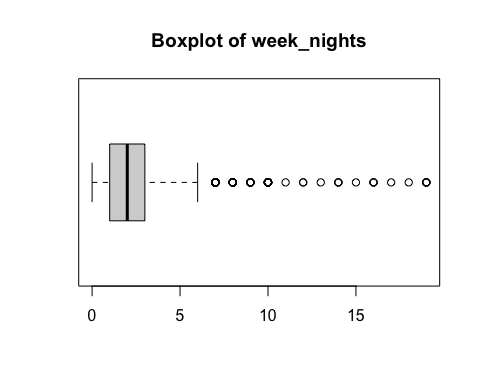
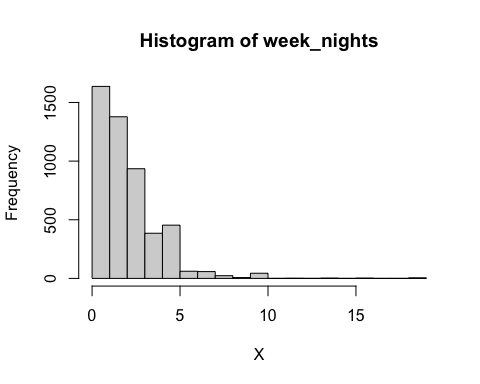
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 1.00 16.00 28.00 27.27 38.00 53.00   
## [1] "sd: 13.6901524569619"  
## [1] "vc: 0.502066645284582"  
## [1] "variable 7 : day"



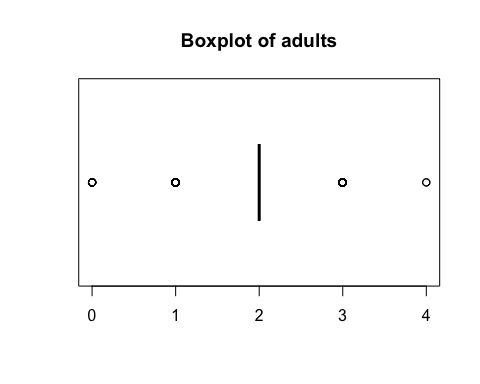
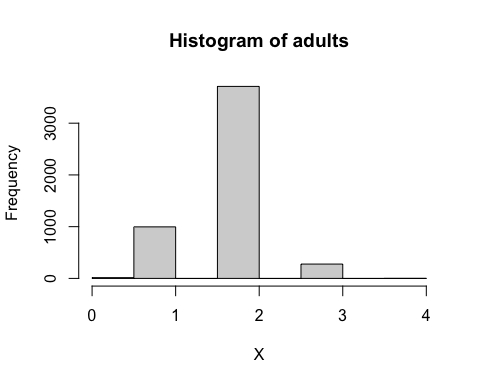
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 1.00 8.75 16.00 16.00 23.25 31.00   
## [1] "sd: 8.71030173020695"  
## [1] "vc: 0.544536799047685"  
## [1] "variable 8 : weekend\_nights"



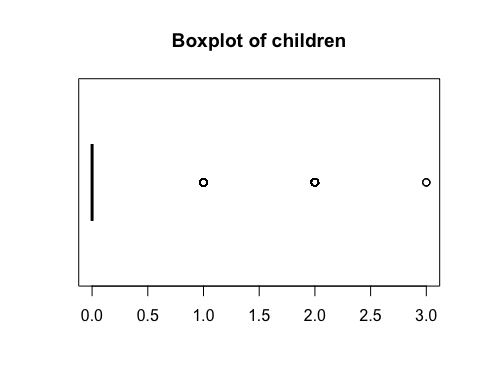
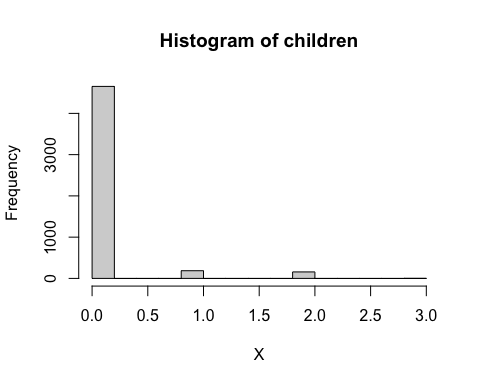
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 0.000 1.000 0.941 2.000 8.000   
## [1] "sd: 0.996050914102636"  
## [1] "vc: 1.05850256546508"  
## [1] "variable 9 : week\_nights"



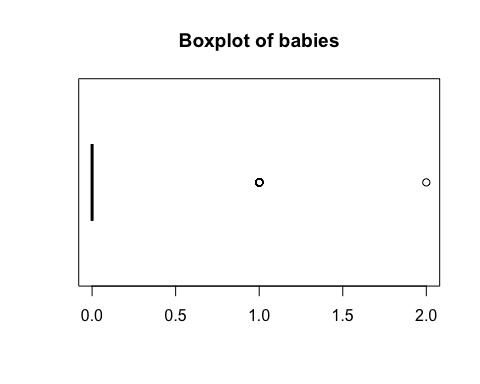
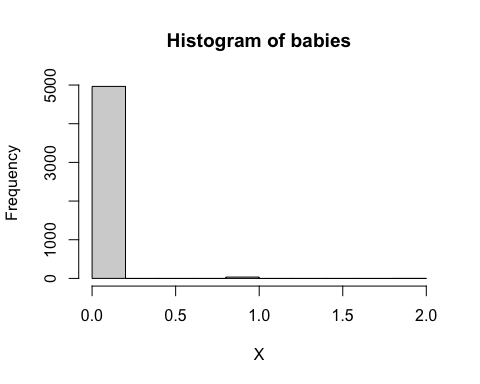
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 1.000 2.000 2.487 3.000 19.000   
## [1] "sd: 1.89159896101839"  
## [1] "vc: 0.760594676726334"  
## [1] "variable 10 : adults"



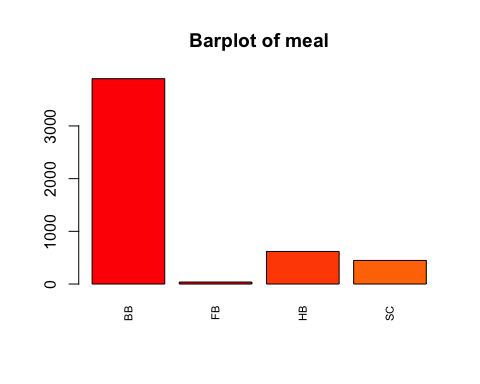
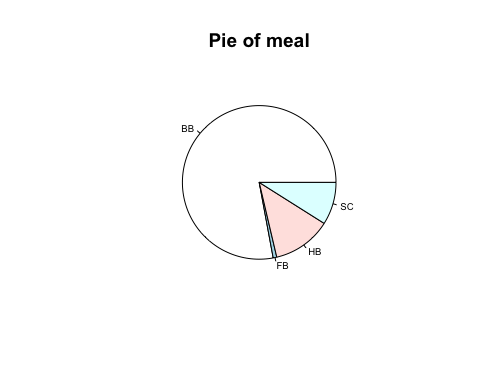
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 2.000 2.000 1.851 2.000 4.000   
## [1] "sd: 0.495345448573705"  
## [1] "vc: 0.26755182487507"  
## [1] "variable 11 : children"



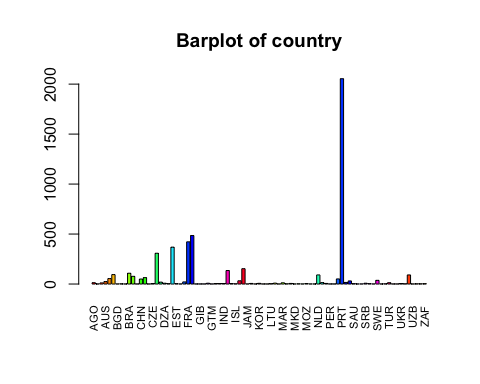
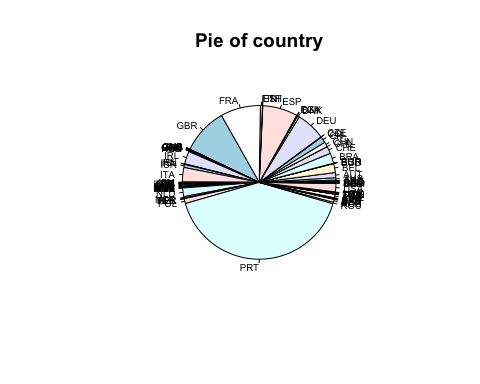
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.0000 0.0000 0.0000 0.1018 0.0000 3.0000   
## [1] "sd: 0.397326482463393"  
## [1] "vc: 3.90301063323569"  
## [1] "variable 12 : babies"



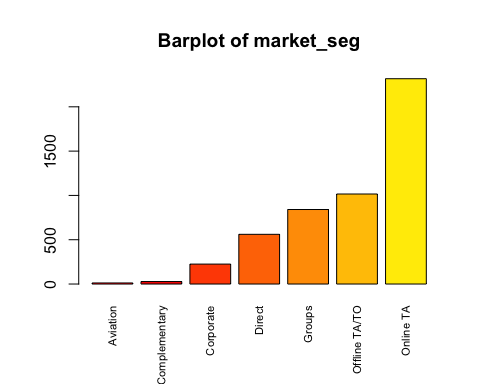
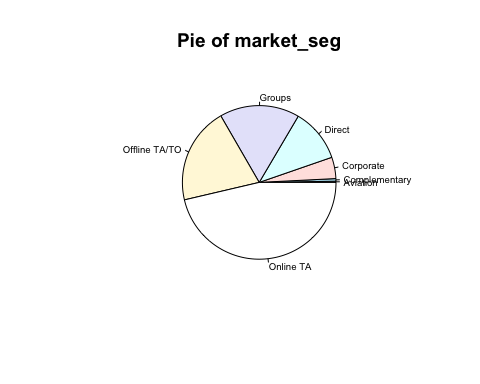
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.0000 0.0000 0.0000 0.0072 0.0000 2.0000   
## [1] "sd: 0.0868888366476776"  
## [1] "vc: 12.0678939788441"  
## [1] "variable 13 : meal"



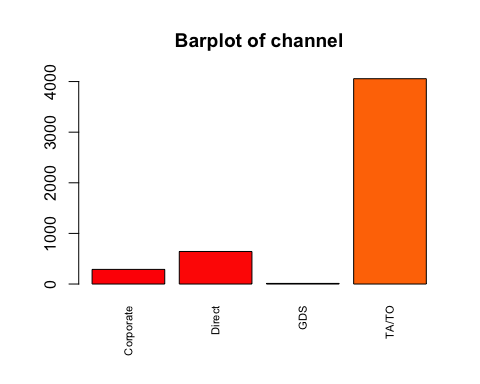
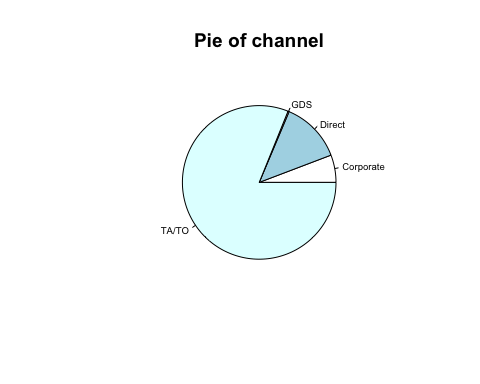
## [1] "Number of modalities: 4"  
## [1] "Frequency table"  
##   
## BB FB HB SC   
## 3896 38 618 448   
## [1] "Relative frequency table (proportions)"  
##   
## BB FB HB SC   
## 0.7792 0.0076 0.1236 0.0896   
## [1] "Frequency table sorted"  
##   
## BB HB SC FB   
## 3896 618 448 38   
## [1] "Relative frequency table (proportions) sorted"  
##   
## BB HB SC FB   
## 0.7792 0.1236 0.0896 0.0076   
## [1] "variable 14 : country"



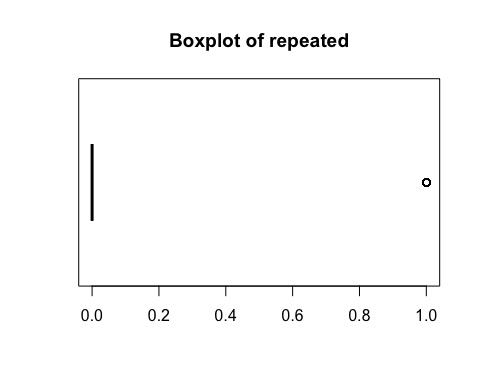
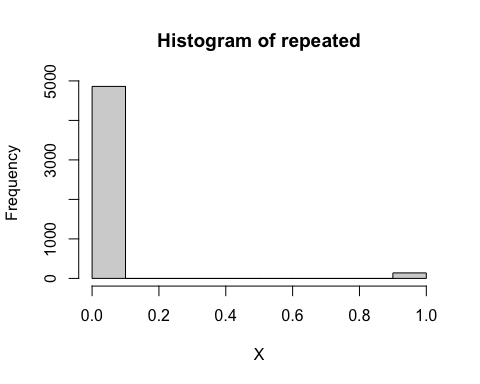
## [1] "Number of modalities: 85"  
## [1] "Frequency table"  
##   
## AGO ARE ARG AUS AUT BEL BGD BGR BHR BRA CHE CHL CHN CN COL CZE   
## 13 1 11 24 54 94 1 2 1 108 77 1 50 64 1 4   
## DEU DNK DZA EGY ESP EST ETH FIN FRA GBR GHA GIB GNB GRC GTM HRV   
## 308 19 8 3 369 3 1 21 422 485 1 1 1 8 1 4   
## HUN IND IRL IRN ISL ISR ITA JAM JPN KAZ KOR LBN LIE LTU LUX LVA   
## 5 5 135 4 2 32 153 1 6 1 7 1 1 3 9 1   
## MAR MDV MEX MKD MLT MNE MOZ MYS NGA NLD NOR NZL PER PHL POL PRT   
## 12 2 6 1 2 1 5 1 1 91 14 6 1 1 51 2054   
## ROU RUS SAU SEN SGP SRB SVK SVN SWE THA TUN TUR TWN TZA UKR URY   
## 16 31 3 1 1 8 3 1 37 1 2 13 1 1 4 2   
## USA UZB VEN VNM ZAF   
## 91 1 2 2 3   
## [1] "Relative frequency table (proportions)"  
##   
## AGO ARE ARG AUS AUT BEL BGD BGR BHR BRA CHE   
## 0.0026 0.0002 0.0022 0.0048 0.0108 0.0188 0.0002 0.0004 0.0002 0.0216 0.0154   
## CHL CHN CN COL CZE DEU DNK DZA EGY ESP EST   
## 0.0002 0.0100 0.0128 0.0002 0.0008 0.0616 0.0038 0.0016 0.0006 0.0738 0.0006   
## ETH FIN FRA GBR GHA GIB GNB GRC GTM HRV HUN   
## 0.0002 0.0042 0.0844 0.0970 0.0002 0.0002 0.0002 0.0016 0.0002 0.0008 0.0010   
## IND IRL IRN ISL ISR ITA JAM JPN KAZ KOR LBN   
## 0.0010 0.0270 0.0008 0.0004 0.0064 0.0306 0.0002 0.0012 0.0002 0.0014 0.0002   
## LIE LTU LUX LVA MAR MDV MEX MKD MLT MNE MOZ   
## 0.0002 0.0006 0.0018 0.0002 0.0024 0.0004 0.0012 0.0002 0.0004 0.0002 0.0010   
## MYS NGA NLD NOR NZL PER PHL POL PRT ROU RUS   
## 0.0002 0.0002 0.0182 0.0028 0.0012 0.0002 0.0002 0.0102 0.4108 0.0032 0.0062   
## SAU SEN SGP SRB SVK SVN SWE THA TUN TUR TWN   
## 0.0006 0.0002 0.0002 0.0016 0.0006 0.0002 0.0074 0.0002 0.0004 0.0026 0.0002   
## TZA UKR URY USA UZB VEN VNM ZAF   
## 0.0002 0.0008 0.0004 0.0182 0.0002 0.0004 0.0004 0.0006   
## [1] "Frequency table sorted"  
##   
## PRT GBR FRA ESP DEU ITA IRL BRA BEL NLD USA CHE CN AUT POL CHN   
## 2054 485 422 369 308 153 135 108 94 91 91 77 64 54 51 50   
## SWE ISR RUS AUS FIN DNK ROU NOR AGO TUR MAR ARG LUX DZA GRC SRB   
## 37 32 31 24 21 19 16 14 13 13 12 11 9 8 8 8   
## KOR JPN MEX NZL HUN IND MOZ CZE HRV IRN UKR EGY EST LTU SAU SVK   
## 7 6 6 6 5 5 5 4 4 4 4 3 3 3 3 3   
## ZAF BGR ISL MDV MLT TUN URY VEN VNM ARE BGD BHR CHL COL ETH GHA   
## 3 2 2 2 2 2 2 2 2 1 1 1 1 1 1 1   
## GIB GNB GTM JAM KAZ LBN LIE LVA MKD MNE MYS NGA PER PHL SEN SGP   
## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   
## SVN THA TWN TZA UZB   
## 1 1 1 1 1   
## [1] "Relative frequency table (proportions) sorted"  
##   
## PRT GBR FRA ESP DEU ITA IRL BRA BEL NLD USA   
## 0.4108 0.0970 0.0844 0.0738 0.0616 0.0306 0.0270 0.0216 0.0188 0.0182 0.0182   
## CHE CN AUT POL CHN SWE ISR RUS AUS FIN DNK   
## 0.0154 0.0128 0.0108 0.0102 0.0100 0.0074 0.0064 0.0062 0.0048 0.0042 0.0038   
## ROU NOR AGO TUR MAR ARG LUX DZA GRC SRB KOR   
## 0.0032 0.0028 0.0026 0.0026 0.0024 0.0022 0.0018 0.0016 0.0016 0.0016 0.0014   
## JPN MEX NZL HUN IND MOZ CZE HRV IRN UKR EGY   
## 0.0012 0.0012 0.0012 0.0010 0.0010 0.0010 0.0008 0.0008 0.0008 0.0008 0.0006   
## EST LTU SAU SVK ZAF BGR ISL MDV MLT TUN URY   
## 0.0006 0.0006 0.0006 0.0006 0.0006 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004   
## VEN VNM ARE BGD BHR CHL COL ETH GHA GIB GNB   
## 0.0004 0.0004 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002   
## GTM JAM KAZ LBN LIE LVA MKD MNE MYS NGA PER   
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002   
## PHL SEN SGP SVN THA TWN TZA UZB   
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002   
## [1] "variable 15 : market\_seg"



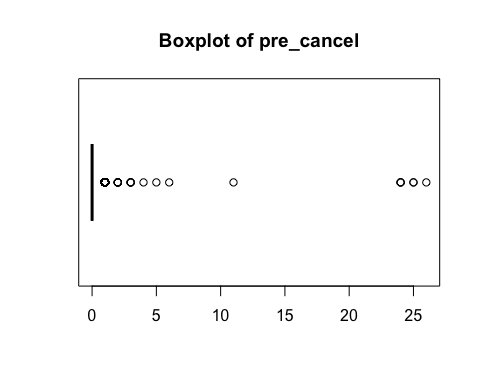
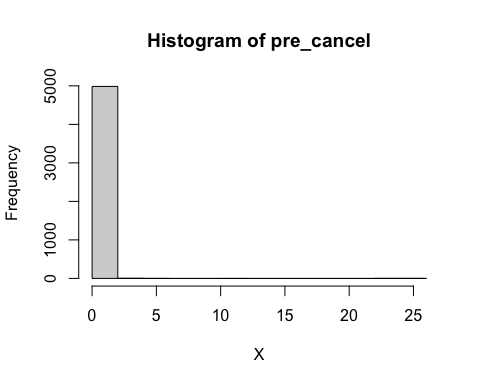
## [1] "Number of modalities: 7"  
## [1] "Frequency table"  
##   
## Aviation Complementary Corporate Direct Groups   
## 12 28 225 561 841   
## Offline TA/TO Online TA   
## 1016 2317   
## [1] "Relative frequency table (proportions)"  
##   
## Aviation Complementary Corporate Direct Groups   
## 0.0024 0.0056 0.0450 0.1122 0.1682   
## Offline TA/TO Online TA   
## 0.2032 0.4634   
## [1] "Frequency table sorted"  
##   
## Online TA Offline TA/TO Groups Direct Corporate   
## 2317 1016 841 561 225   
## Complementary Aviation   
## 28 12   
## [1] "Relative frequency table (proportions) sorted"  
##   
## Online TA Offline TA/TO Groups Direct Corporate   
## 0.4634 0.2032 0.1682 0.1122 0.0450   
## Complementary Aviation   
## 0.0056 0.0024   
## [1] "variable 16 : channel"



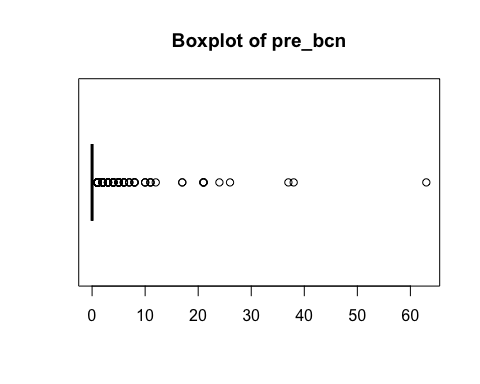
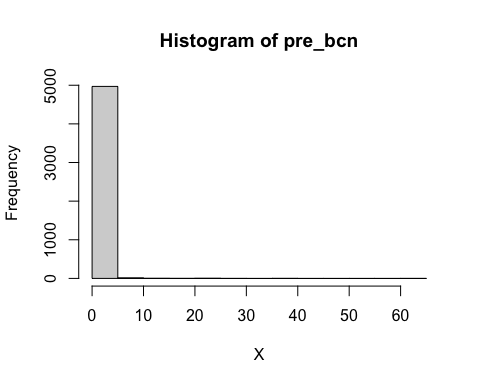
## [1] "Number of modalities: 4"  
## [1] "Frequency table"  
##   
## Corporate Direct GDS TA/TO   
## 289 643 12 4056   
## [1] "Relative frequency table (proportions)"  
##   
## Corporate Direct GDS TA/TO   
## 0.0578 0.1286 0.0024 0.8112   
## [1] "Frequency table sorted"  
##   
## TA/TO Direct Corporate GDS   
## 4056 643 289 12   
## [1] "Relative frequency table (proportions) sorted"  
##   
## TA/TO Direct Corporate GDS   
## 0.8112 0.1286 0.0578 0.0024   
## [1] "variable 17 : repeated"



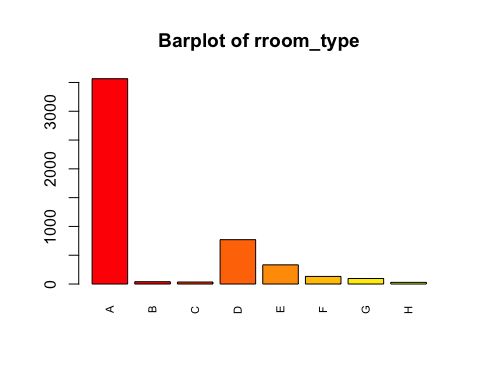
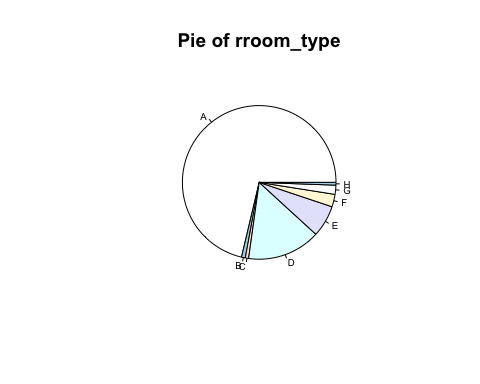
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.0000 0.0000 0.0000 0.0278 0.0000 1.0000   
## [1] "sd: 0.164415834131943"  
## [1] "vc: 5.91423863783968"  
## [1] "variable 18 : pre\_cancel"



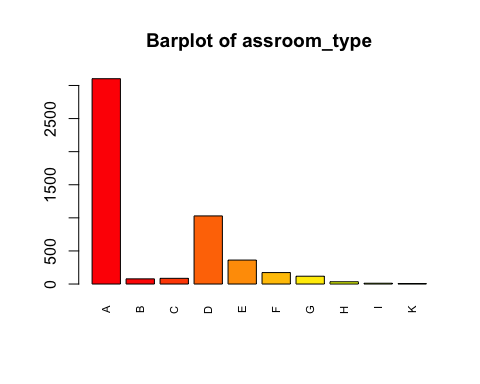
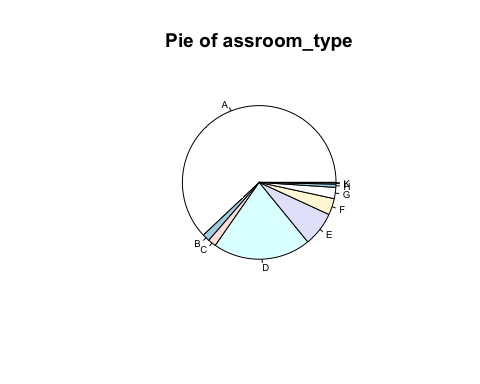
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.00 0.00 0.00 0.09 0.00 26.00   
## [1] "sd: 0.908220773267491"  
## [1] "vc: 10.0913419251943"  
## [1] "variable 19 : pre\_bcn"



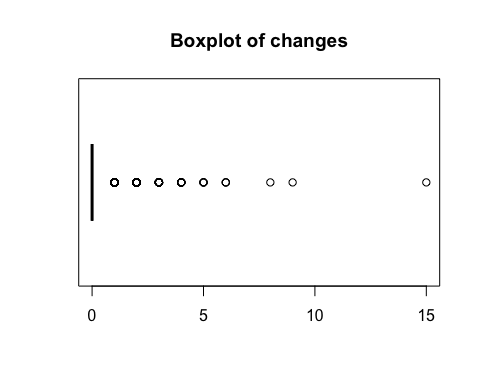
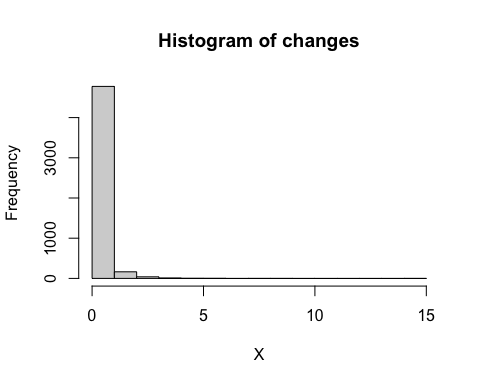
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 0.000 0.000 0.137 0.000 63.000   
## [1] "sd: 1.56828661429629"  
## [1] "vc: 11.4473475496079"  
## [1] "variable 20 : rroom\_type"



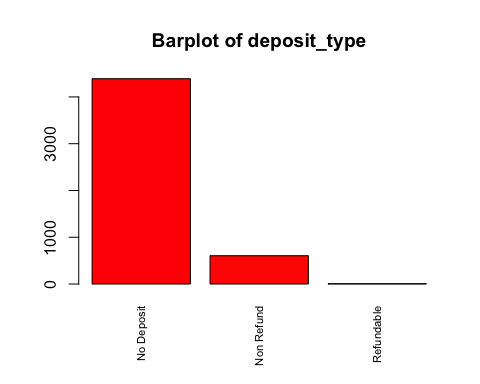
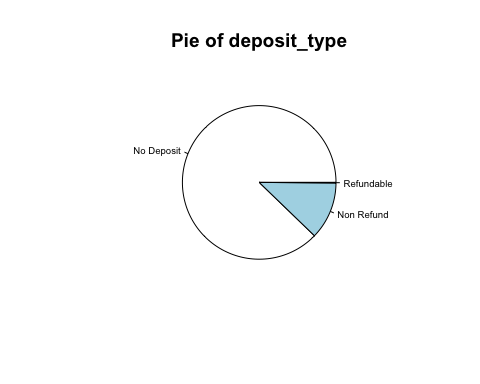
## [1] "Number of modalities: 8"  
## [1] "Frequency table"  
##   
## A B C D E F G H   
## 3565 40 35 770 333 132 96 29   
## [1] "Relative frequency table (proportions)"  
##   
## A B C D E F G H   
## 0.7130 0.0080 0.0070 0.1540 0.0666 0.0264 0.0192 0.0058   
## [1] "Frequency table sorted"  
##   
## A D E F G B C H   
## 3565 770 333 132 96 40 35 29   
## [1] "Relative frequency table (proportions) sorted"  
##   
## A D E F G B C H   
## 0.7130 0.1540 0.0666 0.0264 0.0192 0.0080 0.0070 0.0058   
## [1] "variable 21 : assroom\_type"



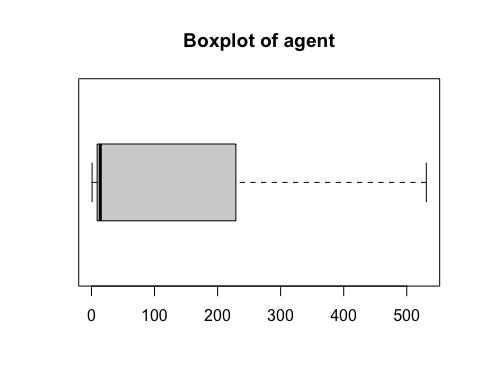
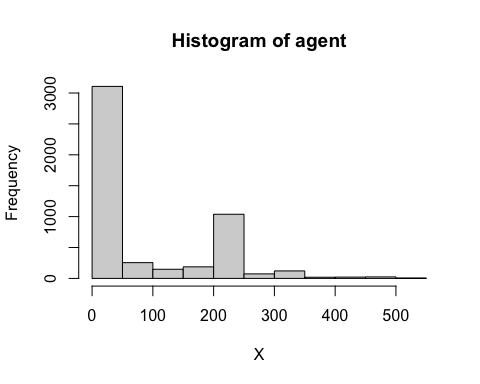
## [1] "Number of modalities: 10"  
## [1] "Frequency table"  
##   
## A B C D E F G H I K   
## 3102 78 86 1029 362 173 118 34 12 6   
## [1] "Relative frequency table (proportions)"  
##   
## A B C D E F G H I K   
## 0.6204 0.0156 0.0172 0.2058 0.0724 0.0346 0.0236 0.0068 0.0024 0.0012   
## [1] "Frequency table sorted"  
##   
## A D E F G C B H I K   
## 3102 1029 362 173 118 86 78 34 12 6   
## [1] "Relative frequency table (proportions) sorted"  
##   
## A D E F G C B H I K   
## 0.6204 0.2058 0.0724 0.0346 0.0236 0.0172 0.0156 0.0068 0.0024 0.0012   
## [1] "variable 22 : changes"



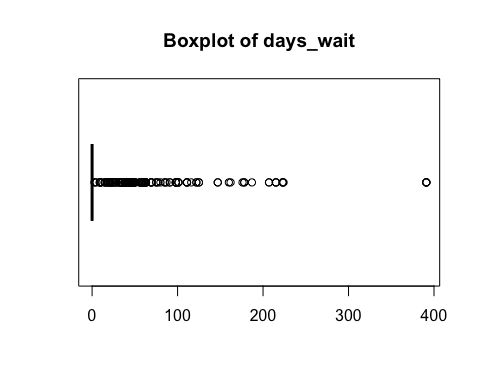
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.0000 0.0000 0.0000 0.2114 0.0000 15.0000   
## [1] "sd: 0.638115568134534"  
## [1] "vc: 3.01852208199874"  
## [1] "variable 23 : deposit\_type"



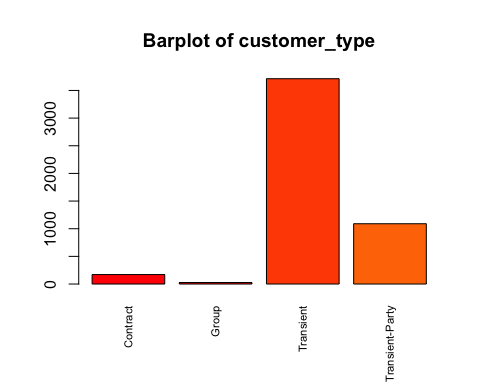
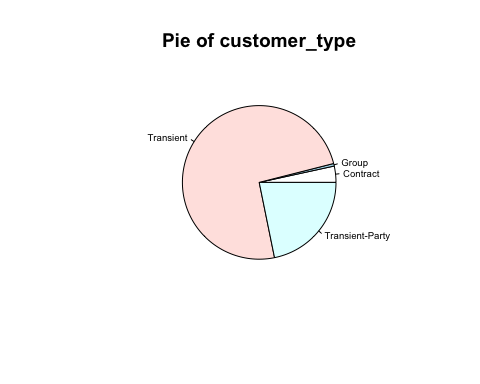
## [1] "Number of modalities: 3"  
## [1] "Frequency table"  
##   
## No Deposit Non Refund Refundable   
## 4389 605 6   
## [1] "Relative frequency table (proportions)"  
##   
## No Deposit Non Refund Refundable   
## 0.8778 0.1210 0.0012   
## [1] "Frequency table sorted"  
##   
## No Deposit Non Refund Refundable   
## 4389 605 6   
## [1] "Relative frequency table (proportions) sorted"  
##   
## No Deposit Non Refund Refundable   
## 0.8778 0.1210 0.0012   
## [1] "variable 24 : agent"



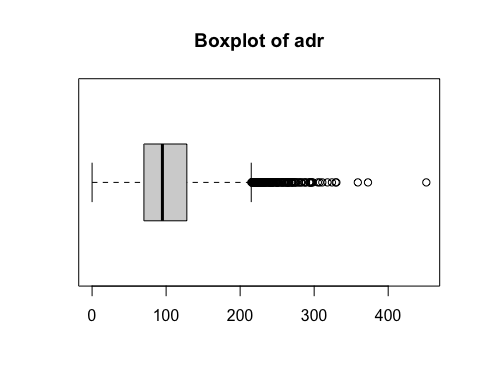
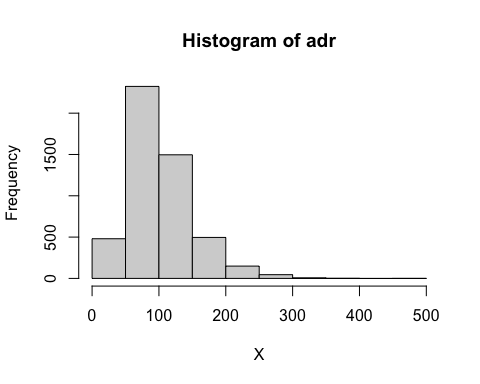
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 1.0 9.0 14.0 89.6 229.0 531.0   
## [1] "sd: 111.469793083122"  
## [1] "vc: 1.2440325286386"  
## [1] "variable 25 : days\_wait"



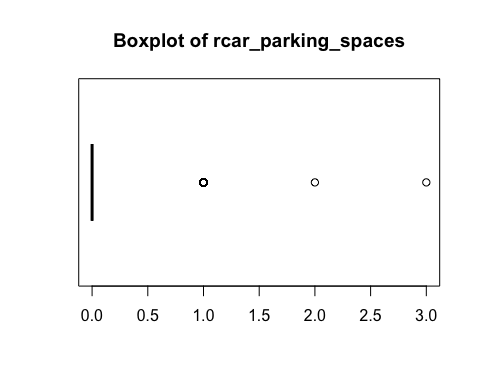
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 0.000 0.000 2.285 0.000 391.000   
## [1] "sd: 18.3618433829091"  
## [1] "vc: 8.03511438075841"  
## [1] "variable 26 : customer\_type"



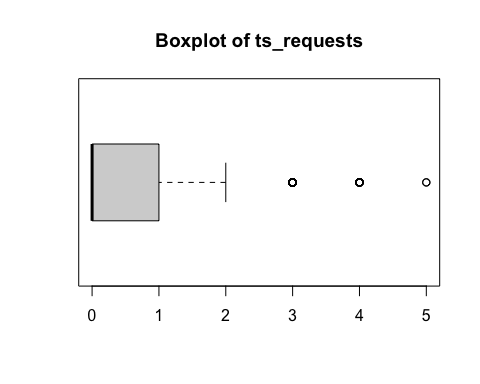
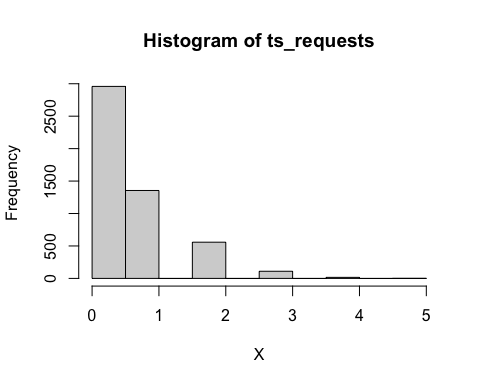
## [1] "Number of modalities: 4"  
## [1] "Frequency table"  
##   
## Contract Group Transient Transient-Party   
## 171 27 3712 1090   
## [1] "Relative frequency table (proportions)"  
##   
## Contract Group Transient Transient-Party   
## 0.0342 0.0054 0.7424 0.2180   
## [1] "Frequency table sorted"  
##   
## Transient Transient-Party Contract Group   
## 3712 1090 171 27   
## [1] "Relative frequency table (proportions) sorted"  
##   
## Transient Transient-Party Contract Group   
## 0.7424 0.2180 0.0342 0.0054   
## [1] "variable 27 : adr"



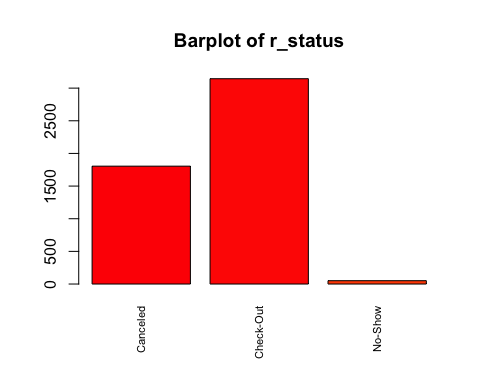
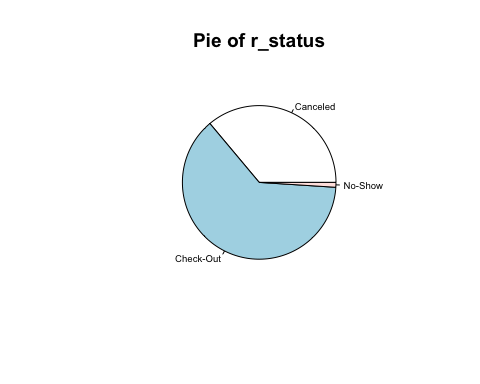
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.0 70.0 95.0 102.7 128.0 451.5   
## [1] "sd: 48.0999813579638"  
## [1] "vc: 0.468546740818426"  
## [1] "variable 28 : rcar\_parking\_spaces"



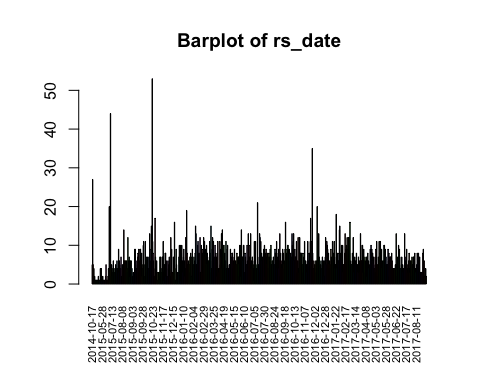
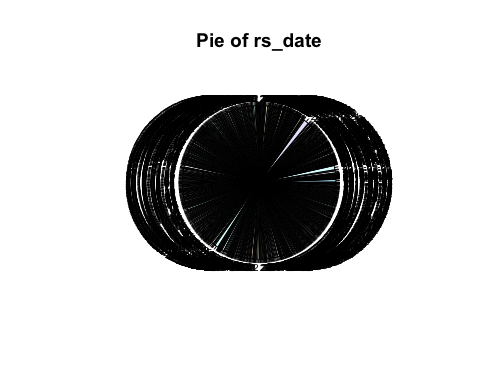
## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.0000 0.0000 0.0000 0.0616 0.0000 3.0000   
## [1] "sd: 0.243756689066563"  
## [1] "vc: 3.95708910822342"  
## [1] "variable 29 : ts\_requests"



## [1] "Extended Summary Statistics"  
## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0.000 0.000 0.000 0.575 1.000 5.000   
## [1] "sd: 0.803806084104972"  
## [1] "vc: 1.39792362453039"  
## [1] "variable 30 : r\_status"



## [1] "Number of modalities: 3"  
## [1] "Frequency table"  
##   
## Canceled Check-Out No-Show   
## 1805 3144 51   
## [1] "Relative frequency table (proportions)"  
##   
## Canceled Check-Out No-Show   
## 0.3610 0.6288 0.0102   
## [1] "Frequency table sorted"  
##   
## Check-Out Canceled No-Show   
## 3144 1805 51   
## [1] "Relative frequency table (proportions) sorted"  
##   
## Check-Out Canceled No-Show   
## 0.6288 0.3610 0.0102   
## [1] "variable 31 : rs\_date"



## [1] "Number of modalities: 825"  
## [1] "Frequency table"  
##   
## 2014-10-17 2015-01-01 2015-01-21 2015-01-22 2015-01-30 2015-02-19 2015-03-03   
## 5 27 5 1 4 1 2   
## 2015-03-25 2015-04-03 2015-04-05 2015-04-06 2015-04-11 2015-04-13 2015-04-14   
## 1 1 1 1 1 1 1   
## 2015-04-15 2015-04-28 2015-04-29 2015-05-06 2015-05-09 2015-05-13 2015-05-14   
## 1 2 1 1 1 1 4   
## 2015-05-18 2015-05-19 2015-05-20 2015-05-27 2015-05-28 2015-05-29 2015-06-01   
## 2 4 2 1 1 2 1   
## 2015-06-08 2015-06-09 2015-06-12 2015-06-13 2015-06-15 2015-06-16 2015-06-17   
## 1 1 1 1 1 2 5   
## 2015-06-19 2015-06-23 2015-06-25 2015-06-26 2015-06-27 2015-06-29 2015-06-30   
## 1 1 1 1 2 4 2   
## 2015-07-02 2015-07-03 2015-07-04 2015-07-06 2015-07-08 2015-07-09 2015-07-10   
## 20 12 1 44 4 2 5   
## 2015-07-12 2015-07-13 2015-07-14 2015-07-15 2015-07-16 2015-07-17 2015-07-18   
## 2 3 4 6 2 3 3   
## 2015-07-19 2015-07-20 2015-07-22 2015-07-23 2015-07-24 2015-07-25 2015-07-26   
## 4 3 5 4 2 6 4   
## 2015-07-27 2015-07-28 2015-07-29 2015-07-30 2015-07-31 2015-08-01 2015-08-02   
## 1 2 9 3 6 5 2   
## 2015-08-03 2015-08-04 2015-08-05 2015-08-06 2015-08-07 2015-08-08 2015-08-09   
## 4 7 2 1 5 4 4   
## 2015-08-10 2015-08-11 2015-08-12 2015-08-13 2015-08-14 2015-08-15 2015-08-16   
## 5 14 6 4 6 4 6   
## 2015-08-17 2015-08-18 2015-08-19 2015-08-20 2015-08-21 2015-08-22 2015-08-23   
## 6 4 4 3 12 6 3   
## 2015-08-24 2015-08-25 2015-08-26 2015-08-27 2015-08-28 2015-08-29 2015-08-30   
## 7 6 2 6 2 6 3   
## 2015-08-31 2015-09-01 2015-09-03 2015-09-04 2015-09-05 2015-09-06 2015-09-07   
## 4 2 2 3 2 3 3   
## 2015-09-08 2015-09-09 2015-09-10 2015-09-11 2015-09-12 2015-09-13 2015-09-14   
## 9 9 5 6 4 4 2   
## 2015-09-15 2015-09-16 2015-09-17 2015-09-18 2015-09-19 2015-09-20 2015-09-21   
## 7 8 3 9 3 6 9   
## 2015-09-22 2015-09-23 2015-09-24 2015-09-25 2015-09-26 2015-09-27 2015-09-28   
## 9 6 6 8 2 4 5   
## 2015-09-29 2015-09-30 2015-10-01 2015-10-02 2015-10-03 2015-10-04 2015-10-05   
## 10 11 1 2 5 11 7   
## 2015-10-06 2015-10-07 2015-10-08 2015-10-09 2015-10-10 2015-10-11 2015-10-12   
## 7 3 6 6 7 4 4   
## 2015-10-13 2015-10-14 2015-10-15 2015-10-16 2015-10-17 2015-10-18 2015-10-19   
## 7 4 13 6 1 9 15   
## 2015-10-20 2015-10-21 2015-10-22 2015-10-23 2015-10-24 2015-10-25 2015-10-26   
## 8 53 11 8 6 4 2   
## 2015-10-27 2015-10-28 2015-10-29 2015-10-30 2015-10-31 2015-11-01 2015-11-02   
## 2 17 7 3 4 6 1   
## 2015-11-03 2015-11-04 2015-11-05 2015-11-06 2015-11-07 2015-11-08 2015-11-09   
## 1 3 1 3 3 3 7   
## 2015-11-10 2015-11-11 2015-11-12 2015-11-13 2015-11-14 2015-11-15 2015-11-16   
## 2 7 3 2 4 7 7   
## 2015-11-17 2015-11-18 2015-11-19 2015-11-20 2015-11-21 2015-11-22 2015-11-23   
## 11 3 1 5 3 8 8   
## 2015-11-24 2015-11-25 2015-11-26 2015-11-27 2015-11-28 2015-11-29 2015-11-30   
## 2 1 6 2 1 6 4   
## 2015-12-02 2015-12-03 2015-12-04 2015-12-05 2015-12-07 2015-12-08 2015-12-09   
## 5 7 4 2 2 12 3   
## 2015-12-10 2015-12-11 2015-12-13 2015-12-14 2015-12-15 2015-12-16 2015-12-17   
## 9 3 1 3 7 1 4   
## 2015-12-18 2015-12-19 2015-12-20 2015-12-21 2015-12-22 2015-12-23 2015-12-24   
## 16 4 1 1 9 5 1   
## 2015-12-25 2015-12-26 2015-12-27 2015-12-28 2015-12-29 2015-12-30 2016-01-01   
## 2 3 3 3 7 10 6   
## 2016-01-02 2016-01-03 2016-01-04 2016-01-05 2016-01-06 2016-01-07 2016-01-08   
## 6 10 1 8 10 3 6   
## 2016-01-09 2016-01-10 2016-01-11 2016-01-12 2016-01-13 2016-01-14 2016-01-15   
## 3 7 9 1 6 2 4   
## 2016-01-16 2016-01-17 2016-01-18 2016-01-19 2016-01-20 2016-01-21 2016-01-22   
## 12 4 19 8 5 5 6   
## 2016-01-23 2016-01-24 2016-01-25 2016-01-26 2016-01-27 2016-01-28 2016-01-29   
## 1 5 5 7 3 8 7   
## 2016-01-30 2016-01-31 2016-02-01 2016-02-02 2016-02-03 2016-02-04 2016-02-05   
## 2 2 9 4 4 5 7   
## 2016-02-06 2016-02-07 2016-02-08 2016-02-09 2016-02-10 2016-02-11 2016-02-12   
## 5 6 8 15 13 5 4   
## 2016-02-13 2016-02-14 2016-02-15 2016-02-16 2016-02-17 2016-02-18 2016-02-19   
## 5 10 11 8 5 8 3   
## 2016-02-20 2016-02-21 2016-02-22 2016-02-23 2016-02-24 2016-02-25 2016-02-26   
## 12 3 3 10 3 9 8   
## 2016-02-27 2016-02-28 2016-02-29 2016-03-01 2016-03-02 2016-03-03 2016-03-04   
## 3 8 12 8 11 7 9   
## 2016-03-05 2016-03-06 2016-03-07 2016-03-08 2016-03-09 2016-03-10 2016-03-11   
## 5 8 10 5 8 5 5   
## 2016-03-12 2016-03-13 2016-03-14 2016-03-15 2016-03-16 2016-03-17 2016-03-18   
## 6 6 7 11 8 6 15   
## 2016-03-19 2016-03-20 2016-03-21 2016-03-22 2016-03-23 2016-03-24 2016-03-25   
## 3 4 9 12 9 11 2   
## 2016-03-26 2016-03-27 2016-03-28 2016-03-29 2016-03-30 2016-03-31 2016-04-01   
## 4 7 10 4 8 7 4   
## 2016-04-02 2016-04-03 2016-04-04 2016-04-05 2016-04-06 2016-04-07 2016-04-08   
## 2 8 11 4 2 3 4   
## 2016-04-09 2016-04-10 2016-04-11 2016-04-12 2016-04-13 2016-04-14 2016-04-15   
## 11 5 9 7 13 4 14   
## 2016-04-16 2016-04-17 2016-04-18 2016-04-19 2016-04-20 2016-04-21 2016-04-22   
## 3 10 4 10 5 8 4   
## 2016-04-23 2016-04-24 2016-04-25 2016-04-26 2016-04-27 2016-04-28 2016-04-29   
## 6 11 4 2 9 10 4   
## 2016-04-30 2016-05-02 2016-05-03 2016-05-04 2016-05-05 2016-05-06 2016-05-07   
## 4 4 5 5 5 9 3   
## 2016-05-08 2016-05-09 2016-05-10 2016-05-11 2016-05-12 2016-05-13 2016-05-14   
## 4 7 8 8 7 4 6   
## 2016-05-15 2016-05-16 2016-05-17 2016-05-18 2016-05-19 2016-05-20 2016-05-21   
## 5 9 6 5 6 5 5   
## 2016-05-22 2016-05-23 2016-05-24 2016-05-25 2016-05-26 2016-05-27 2016-05-28   
## 8 5 7 7 7 5 2   
## 2016-05-29 2016-05-30 2016-05-31 2016-06-01 2016-06-02 2016-06-03 2016-06-04   
## 10 10 7 2 14 6 7   
## 2016-06-05 2016-06-06 2016-06-08 2016-06-09 2016-06-10 2016-06-11 2016-06-12   
## 7 6 10 10 3 1 8   
## 2016-06-13 2016-06-14 2016-06-15 2016-06-16 2016-06-17 2016-06-18 2016-06-19   
## 7 5 5 5 10 6 4   
## 2016-06-20 2016-06-21 2016-06-22 2016-06-23 2016-06-24 2016-06-25 2016-06-26   
## 13 5 10 7 6 1 13   
## 2016-06-27 2016-06-28 2016-06-29 2016-06-30 2016-07-01 2016-07-02 2016-07-03   
## 4 6 4 7 6 5 4   
## 2016-07-04 2016-07-05 2016-07-06 2016-07-07 2016-07-08 2016-07-09 2016-07-10   
## 1 11 5 6 11 5 4   
## 2016-07-11 2016-07-12 2016-07-13 2016-07-14 2016-07-15 2016-07-16 2016-07-17   
## 3 4 21 5 4 5 7   
## 2016-07-18 2016-07-19 2016-07-20 2016-07-21 2016-07-22 2016-07-23 2016-07-24   
## 13 12 3 11 5 8 6   
## 2016-07-25 2016-07-26 2016-07-27 2016-07-28 2016-07-29 2016-07-30 2016-07-31   
## 7 3 3 9 7 10 2   
## 2016-08-01 2016-08-02 2016-08-03 2016-08-04 2016-08-05 2016-08-06 2016-08-07   
## 6 8 9 7 5 8 1   
## 2016-08-08 2016-08-09 2016-08-10 2016-08-11 2016-08-12 2016-08-13 2016-08-14   
## 7 4 8 7 6 9 7   
## 2016-08-15 2016-08-16 2016-08-17 2016-08-18 2016-08-19 2016-08-20 2016-08-21   
## 10 5 1 6 5 6 7   
## 2016-08-22 2016-08-23 2016-08-24 2016-08-25 2016-08-26 2016-08-27 2016-08-28   
## 4 3 5 9 8 8 6   
## 2016-08-29 2016-08-30 2016-08-31 2016-09-01 2016-09-02 2016-09-03 2016-09-04   
## 11 4 6 7 8 9 4   
## 2016-09-05 2016-09-06 2016-09-07 2016-09-08 2016-09-09 2016-09-10 2016-09-11   
## 6 13 2 8 6 5 4   
## 2016-09-12 2016-09-13 2016-09-14 2016-09-15 2016-09-16 2016-09-17 2016-09-18   
## 4 9 4 8 5 4 6   
## 2016-09-19 2016-09-20 2016-09-21 2016-09-22 2016-09-23 2016-09-24 2016-09-25   
## 9 16 9 7 8 3 10   
## 2016-09-26 2016-09-27 2016-09-28 2016-09-29 2016-09-30 2016-10-01 2016-10-02   
## 10 7 9 9 5 8 6   
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