library(dplyr)

##   
## Caricamento pacchetto: 'dplyr'

## I seguenti oggetti sono mascherati da 'package:stats':  
##   
## filter, lag

## I seguenti oggetti sono mascherati da 'package:base':  
##   
## intersect, setdiff, setequal, union

library(ggplot2)  
library(moments)  
  
houses = read.csv("house\_price.csv", stringsAsFactors = TRUE)  
  
variabili\_quant\_cont = houses[, c("LotFrontage", "LotArea", "MasVnrArea", "BsmtFinSF1", "BsmtFinSF2", "BsmtUnfSF", "TotalBsmtSF", "X1stFlrSF", "X2ndFlrSF", "LowQualFinSF", "GrLivArea", "GarageArea", "WoodDeckSF", "OpenPorchSF", "EnclosedPorch", "X3SsnPorch", "ScreenPorch")]  
variabili\_qualitative = houses[, c("MSSubClass", "MSZoning", "Street", "LotShape", "LandContour", "Utilities", "LotConfig", "LandSlope", "Neighborhood", "Condition1", "Condition2", "BldgType", "HouseStyle", "RoofStyle", "RoofMatl", "Exterior1st", "Exterior2nd", "MasVnrType", "ExterQual", "ExterCond", "Foundation", "BsmtQual", "BsmtCond", "BsmtExposure", "BsmtFinType1", "BsmtFinType2", "Heating", "HeatingQC", "CentralAir", "Electrical", "KitchenQual", "Functional", "FireplaceQu", "GarageType", "GarageFinish", "GarageQual", "GarageCond", "PavedDrive", "SaleType", "SaleCondition")]  
variabili\_quant\_discrete = houses[, c("BsmtFullBath", "BsmtHalfBath", "FullBath", "HalfBath", "BedroomAbvGr", "KitchenAbvGr", "TotRmsAbvGrd", "Fireplaces", "GarageCars")]  
anni = houses[, c("YearBuilt", "YearRemodAdd", "GarageYrBlt")]  
voti = houses[, c("OverallQual", "OverallCond")]