Exercises

- **Explore the variables**

  Iris table:

Speal.length, Speal.width, Petal.lenght, petal.width

  Heart table:

X,Age,RestBP chol,Fbs,RestECG,MaxHR,Exang,oldpeak,slope,Ca,AHD

  Groceries table:

frankfurter sausage liver.loaf ham meat finished.products organic.sausage chicken turkey pork beef hamburger.meat fish citrus.fruit tropical.fruit pip.fruit grapes berries nuts.prunes root.vegetables onions herbs other.vegetables packaged.fruit.vegetables whole.milk butter curd dessert butter.milk yogurt whipped.sour.cream beverages UHT.milk condensed.milk cream soft.cheese sliced.cheese hard.cheese cream.cheese. processed.cheese spread.cheese curd.cheese specialty.cheese mayonnaise salad.dressing tidbits frozen.vegetables frozen.fruits frozen.meals frozen.fish frozen.chicken ice.cream frozen.dessert frozen.potato.products domestic.eggs rolls.buns white.bread brown.bread pastry roll.products. semi.finished.bread

- **List the quantitative variables and qualitative variables**

  Quantitative variable in iris, heart and groceries as below:

Speal.length, Speal.width, Petal.lenght, petal.width
X,Age,RestBP chol,Fbs,RestECG,MaxHR,Exang,oldpeak,slope,Ca,AHD

  Qualitative variables in iris, heart and groceries as below:

Species
THal,Sex,ChestPain
Frankfurter sausage liver.loaf ham,curd, yougur frozen fish,spices,sauces

- **State a Research question and identify the target variable if applicable**
  Research question in iris:
  Different species flower with width and length for distribution
  Research question in heart:
  What is related chest pain with MaxHR or other related factor .
  Research question in groceries
  Which goods is most amount in table

- **Comment if they are supervised learning or unsupervised learning**
  Yes, we can do supervised learning for the data and generate the outcome for measurement such as checking the Average value, and we also do unsupervised learning such for clustering for Iris data