

Project 3: The first part

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Data Source and Loading

Packages used:

```
library(readxl)
library(httr)
```

E-Commerce Data:

```
retailURL <-  
  "http://archive.ics.uci.edu/ml/machine-learning-databases/00502/online_retail_II.xlsx"
```

Loading and Combining Data

```
GET(retailURL, write_disk(tempFileName <- tempfile(fileext = ".xlsx")))  
  
retail_sheet_2009 <- read_excel(tempFileName, sheet = "Year 2009-2010")  
retail_sheet_2010 <- read_excel(tempFileName, sheet = "Year 2010-2011")  
retaildf <- rbind(retail_sheet_2009, retail_sheet_2010)
```

Description of Data

```
retaildf
```

```
## # A tibble: 1,067,371 x 8
##   Invoice StockCode Description Quantity InvoiceDate      Price
##   <chr>   <chr>      <chr>          <dbl> <dtm>      <dbl>
## 1 489434  85048      "15CM CHRI-         12 2009-12-01 07:45:00  6.95
## 2 489434  79323P      "PINK CHER-         12 2009-12-01 07:45:00  6.75
## 3 489434  79323W      "WHITE CHE-         12 2009-12-01 07:45:00  6.75
## 4 489434  22041      "RECORD FR-         48 2009-12-01 07:45:00   2.1
## 5 489434  21232      "STRAWBERR-         24 2009-12-01 07:45:00  1.25
## 6 489434  22064      "PINK DOUG-         24 2009-12-01 07:45:00  1.65
## 7 489434  21871      "SAVE THE ~         24 2009-12-01 07:45:00  1.25
## 8 489434  21523      "FANCY FON-         10 2009-12-01 07:45:00  5.95
## 9 489435  22350      "CAT BOWL"          12 2009-12-01 07:46:00  2.55
## 10 489435  22349      "DOG BOWL ~         12 2009-12-01 07:46:00  3.75
## # ... with 1,067,361 more rows, and 2 more variables: `Customer ID` <dbl>,
## #   Country <chr>
```

E-R Diagram

