File Handling

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1 Connecting CSV

```
library(readr)
library(dplyr)
```

URL

```
url <- 'http://people.terry.uga.edu/rwatson/data/electricityprices.csv'

EP <- read_csv(url)

head(EP)
```

```
## # A tibble: 6 x 2
##   timestamp            cost
##   <dttm>              <dbl>
## 1 2010-01-01 00:00:00  6.49
## 2 2010-01-01 01:00:00  5.54
## 3 2010-01-01 02:00:00  6.50
## 4 2010-01-01 03:00:00  6.54
## 5 2010-01-01 04:00:00  5.65
## 6 2010-01-01 05:00:00  6.56
```

2 Database Access

```
library("DBI")
library("RMySQL")
library("tibble")
```

Connecting to MySQL Database

```
conn <- dbConnect(RMySQL::MySQL(), "richardtwatson.com", dbname="ClassicModels", user="student", passwo
```

List Tables

```
dbListTables(conn)
```

```
## [1] "Customers"    "Employees"    "Offices"      "OrderDetails"
## [5] "Orders"       "Payments"     "ProductLines" "Products"
```

Querying from MySQL Database

```
c <- dbGetQuery(conn,"SELECT * FROM Orders;")
head(c)
```

```
##   orderNumber           orderDate        requiredDate         shippedDate
## 1       10100 2003-01-06 00:00:00 2003-01-13 00:00:00 2003-01-10 00:00:00
```

```
## 2       10101 2003-01-09 00:00:00 2003-01-18 00:00:00 2003-01-11 00:00:00
## 3       10102 2003-01-10 00:00:00 2003-01-18 00:00:00 2003-01-14 00:00:00
## 4       10103 2003-01-29 00:00:00 2003-02-07 00:00:00 2003-02-02 00:00:00
## 5       10104 2003-01-31 00:00:00 2003-02-09 00:00:00 2003-02-01 00:00:00
## 6       10105 2003-02-11 00:00:00 2003-02-21 00:00:00 2003-02-12 00:00:00
##    status               comments customerNumber
## 1 Shipped                   <NA>            363
## 2 Shipped Check on availability.            128
## 3 Shipped                   <NA>            181
## 4 Shipped                   <NA>            121
## 5 Shipped                   <NA>            141
## 6 Shipped                   <NA>            145
```

3 Read Feather Datset

```
library("feather")
```

```
featherfile<-feather('C:/Users/bbens/OneDrive - University of Georgia/Spring/Advanced Data Analytics/Ass

head(featherfile)
```

```
## # A tibble: 262,932 x 2
##    TimeStamp           SolarWatt
##    <dttm>                  <dbl>
##  1 2010-01-01 00:04:00         0
##  2 2010-01-01 00:14:00         0
##  3 2010-01-01 00:24:00         0
##  4 2010-01-01 00:34:00         0
##  5 2010-01-01 00:44:00         0
##  6 2010-01-01 00:54:00         0
##  7 2010-01-01 01:04:00         0
##  8 2010-01-01 01:14:00         0
##  9 2010-01-01 01:24:00         0
## 10 2010-01-01 01:34:00         0
## # ... with 262,922 more rows
```

4 Import Dataset

Use RStudio's 'Import Dataset' feature to import the dataset InternetCcompanies.xlsx

1. Click 'Import Dataset' from Environment tab
2. Select 'From Excel'
3. Select 'Browse' and find file
4. Click 'Import'

This feature generates the following code:

```
library(readxl)
InternetCompanies <- read_excel("InternetCompanies.xlsx")
View(InternetCompanies)
```

Compiling a Report

Compiling a report is useful for future use. Output file can be in the following document types:

output: pdf_document

output: html_document

output: word_document

Note: Download the full MiKTeX software to enable to the pdf_document Markdown capability.