File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins

Project: (Nor

Walmart_Retail_Analysis Report.R | Data2 | semester_store1 | gr | walmart

Source on Save | Run | Source

```
summary(walmart_lm)

walmart_lm1 = lm(Weekly_Sales ~ Holiday_Flag + Temperature ++ CPI , semester_stor
summary(walmart_lm1)

walmart_lm3 = lm(Weekly_Sales ~ Temperature + CPI , semester_store1)
summary(walmart_lm3)



### Change dates into days by creating new variable

Data2= walmart
Data2$Weekdays = weekdays(Data2$Date)
View(Data2)
```

115:12 (Top Level) | R Script

Console | Terminal | Background Jobs

R 4.2.2 · ~/

```
Multiple R-squared:  0.1378,    Adjusted R-squared:  0.1192
F-statistic: 7.407 on 3 and 139 DF,  p-value: 0.0001222

> walmart_lm3 = lm(Weekly_Sales ~ Temperature + CPI , semester_store1)
> summary(walmart_lm3)

Call:
lm(formula = Weekly_Sales ~ Temperature + CPI, data = semester_store1)

Residuals:
    Min      1Q  Median      3Q     Max
-312205  -85704   -9198   57222  830489

Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)  -233190     616327  -0.378  0.70574
```

Environment | History | Connections | Tutorial

Import Dataset | 596 MiB | List

R | Global Environment

Q3_2012_sales	45 obs. of 2 variables
Q3_2012_Sales	0 obs. of 2 variables
scatter.1	Large gg (9 elements, 1.4 MB)
semester_store1	143 obs. of 7 variables
store_sales	45 obs. of 4 variables
Store_sales	45 obs. of 4 variables

Files | Plots | Packages | Help | Viewer | Presentation

Install | Update

Name	Description	Version
backports	Reimplementations of functions introduced since R-3.0.0	1.4.1
base64enc	Tools for base64 encoding	0.1-3
bitops	Bitwise Operations	1.0-7
brio	Basic R Input Output	1.1.3
broom	Convert Statistical Objects into Tidy Tibbles	1.0.3
bslib	Custom 'Bootstrap' 'Sass' Themes for 'shiny' and 'rmarkdown'	0.4.2
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car	Companion to Applied Regression	3.1-1
carData	Companion to Applied Regression Data Sets	3.0-5
caret	Classification and Regression Training	6.0-93
cellranger	Translate Spreadsheet Cell Ranges to Rows and Columns	1.1.0
class	Functions for Classification	7.3-20
cli	Helpers for Developing Command Line Interfaces	3.5.0
clock	Date-Time Types and Tools	0.6.1
cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.4

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins | Project: (None)

Walmart_Retail_Analysis Report.R | Data2 | semester_store1 | gr | walmart

Source on Save | Run | Source

```
60 walmart2$month_year <-substr(walmart2$Date,1,7)
61 Q3_2012 <- filter(walmart2,month_year=="2012-07"| month_year=="2012-08"|month_yea
62 Q2_2012<- filter(walmart2,month_year=="2012-04"|month_year=="2012-05"|month_year=
63
64 Q3_2012_sales <- summarise(group_by(Q3_2012,Store),sum(weekly_Sales))
65
66 Q2_2012_sales<-  summarise(group_by(Q2_2012,Store),sum(weekly_Sales))
67
68
69 Q3_2012_Growthrate = merge ( Q2_2012_sales , Q3_2012_sales , by = 'Store')
70 Q3_2012_Growthrate = mutate(Q3_2012_Growthrate, Growth_Rate = ((Q3_2012_sales$`su
71 gr = arrange(Q3_2012_Growthrate, desc(Growth_Rate))
72 View(gr)
73
74 ### Store 15 has highest growth rate in Q3 2012: 13.3307760
75
76
```

115:12 (Top Level) | R Script

Console | Terminal | Background Jobs

R 4.2.2 · ~/

```
 $ Weekly_Sales: num  1643691 1641957 1611968 1409728 1554807 ...
 $ Holiday_Flag: int  0 1 0 0 0 0 0 0 0 0 ...
 $ Temperature : num  42.3 38.5 39.9 46.6 46.5 ...
 $ Fuel_Price  : num  2.57 2.55 2.51 2.56 2.62 ...
 $ CPI         : num  211 211 211 211 211 ...
 $ Unemployment: num  8.11 8.11 8.11 8.11 8.11 ...
> head(walmart)
  Store       Date Weekly_Sales Holiday_Flag Temperature Fuel_Price      CPI
1     1 05-02-2010      1643691            0       42.31      2.572 211.0964
2     1 12-02-2010      1641957            1       38.51      2.548 211.2422
3     1 19-02-2010      1611968            0       39.93      2.514 211.2891
4     1 26-02-2010      1409728            0       46.63      2.561 211.3196
5     1 05-03-2010      1554807            0       46.50      2.625 211.3501
6     1 12-03-2010      1439542            0       57.79      2.667 211.3806
  Unemployment
1        8.106
2        8.106
```

Environment | History | Connections | Tutorial

Import Dataset | 596 MiB | List

R | Global Environment

Q3_2012_sales	45 obs. of 2 variables
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Files | Plots | Packages | Help | Viewer | Presentation

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RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins | Project: (None)

Walmart_Retail_Analysis Report.R | Data2 | semester_store1 | gr | walmart

Source on Save | Run | Source

```
84 walmart_Holiday$hflag = ifelse(walmart_Holiday$Date %in% SuperBowl, "SB", ifelse(
85 aggregate(Weekly_Sales~hflag,data=walmart_Holiday, mean)
86
87 ### Thanks giving have highest sales than mean. Mean sales in non-holiday season
88
89 ### For Store 1 - Build  prediction models to forecast demand
90
91 library(dplyr)
92
93 semester_store1 = select(filter(walmart, Store==1),-1)
94 View(semester_store1)
95 str(semester_store1)
96 head(semestar_store1)
97
98 ## Linear Model
99
```

115:12 (Top Level) | R Script

Console | Terminal | Background Jobs

R 4.2.2 · ~/

```
 $ CPI         : num  211 211 211 211 211 ...
 $ Unemployment: num  8.11 8.11 8.11 8.11 8.11 ...
> head(walmart)
  Store       Date Weekly_Sales Holiday_Flag Temperature Fuel_Price      CPI
1     1 05-02-2010      1643691            0       42.31      2.572 211.0964
2     1 12-02-2010      1641957            1       38.51      2.548 211.2422
3     1 19-02-2010      1611968            0       39.93      2.514 211.2891
4     1 26-02-2010      1409728            0       46.63      2.561 211.3196
5     1 05-03-2010      1554807            0       46.50      2.625 211.3501
6     1 12-03-2010      1439542            0       57.79      2.667 211.3806
  Unemployment
1        8.106
2        8.106
3        8.106
4        8.106
5        8.106
```

Environment | History | Connections | Tutorial

Import Dataset | 596 MiB | List

R | Global Environment

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Files | Plots | Packages | Help | Viewer | Presentation

Install | Update

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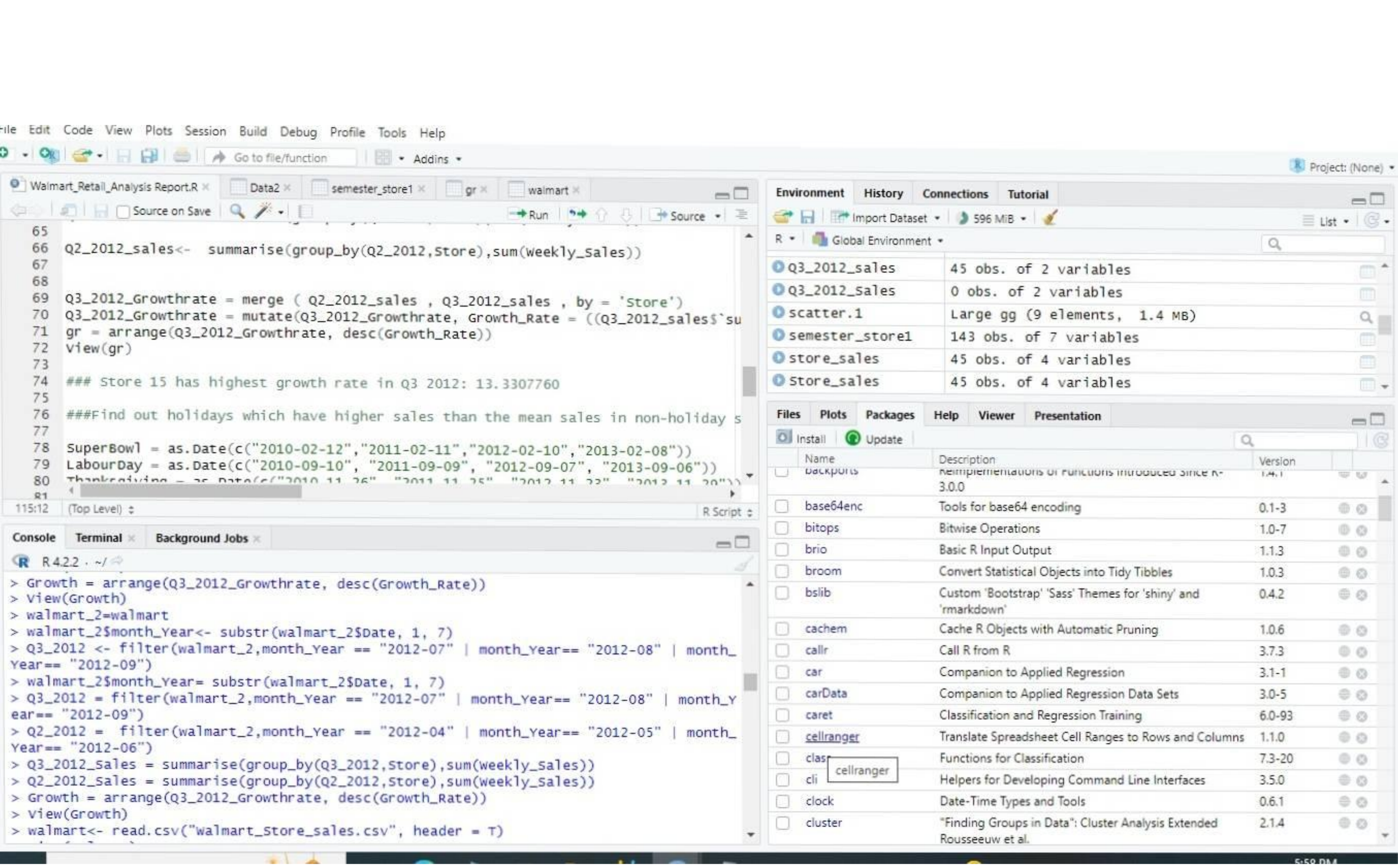
cli	Helpers for Developing Command Line Interfaces	3.5.0
clock	Date-Time Types and Tools	0.6.1
cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.4

Type here to search

27°C Haze ENG 5:58 PM 05-Feb-23


File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
Project: (None)
Walmart_Retail_Analysis Report.R
Data2
semester_store1
gr
walmart
Source on Save
Run
Source
65
66 Q2_2012_sales<- summarise(group_by(Q2_2012,Store),sum(Weekly_Sales))
67
68
69 Q3_2012_Growthrate = merge (Q2_2012_sales , Q3_2012_sales , by = 'Store')
70 Q3_2012_Growthrate = mutate(Q3_2012_Growthrate, Growth_Rate = ((Q3_2012_sales$`su
71 gr = arrange(Q3_2012_Growthrate, desc(Growth_Rate))
72 View(gr)
73
74 ### Store 15 has highest growth rate in Q3 2012: 13.3307760
75
76 ###Find out holidays which have higher sales than the mean sales in non-holiday s
77
78 SuperBowl = as.Date(c("2010-02-12","2011-02-11","2012-02-10","2013-02-08"))
79 LabourDay = as.Date(c("2010-09-10", "2011-09-09", "2012-09-07", "2013-09-06"))
115:12 (Top Level)
R Script
Console
Terminal
Background Jobs
R 4.2.2 · ~/
> Growth = arrange(Q3_2012_Growthrate, desc(Growth_Rate))
> View(Growth)
> walmart_2=walmart
> walmart_2$month_Year<- substr(walmart_2$Date, 1, 7)
> Q3_2012 <- filter(walmart_2,month_Year == "2012-07" | month_Year== "2012-08" | month_
Year== "2012-09")
> walmart_2$month_Year= substr(walmart_2$Date, 1, 7)
> Q3_2012 = filter(walmart_2,month_Year == "2012-07" | month_Year== "2012-08" | month_Y
ear== "2012-09")
> Q2_2012 = filter(walmart_2,month_Year == "2012-04" | month_Year== "2012-05" | month_
Year== "2012-06")
> Q3_2012_Sales = summarise(group_by(Q3_2012,Store),sum(Weekly_Sales))
> Q2_2012_Sales = summarise(group_by(Q2_2012,Store),sum(Weekly_Sales))
> Growth = arrange(Q3_2012_Growthrate, desc(Growth_Rate))
> View(Growth)
> walmart<- read.csv("walmart_Store_sales.csv", header = T)
Environment
History
Connections
Tutorial
Import Dataset
596 MiB
List
R
Global Environment
Q3_2012_sales 45 obs. of 2 variables
Q3_2012_Sales 0 obs. of 2 variables
scatter.1 Large gg (9 elements, 1.4 MB)
semester_store1 143 obs. of 7 variables
store_sales 45 obs. of 4 variables
Store_sales 45 obs. of 4 variables
Files
Plots
Packages
Help
Viewer
Presentation
Install
Update
Name
Description
Version
3.0.0
base64enc Tools for base64 encoding 0.1-3
bitops Bitwise Operations 1.0-7
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cellranger
cli Helpers for Developing Command Line Interfaces 3.5.0
clock Date-Time Types and Tools 0.6.1
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File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins | Project: (None)

Walmart_Retail_Analysis Report.R | Data2 | semester_store1 | gr | walmart

Source on Save | Run | Source

```
50 arrange(Store_sales, desc(sales_sd))
51
52 ### Store 14 has highest standard deviatiation: 317569.95
53
54 ## Q3- which store/s has good quarterly growth rate in Q3'2012?
55 # creating copy of walmart
56
57 walmart2= walmart
58
59
60 walmart2$month_year <-substr(walmart2$Date,1,7)
61 Q3_2012 <- filter(walmart2,month_year=="2012-07"| month_year=="2012-08"|month_yea
62 Q2_2012<- filter(walmart2,month_year=="2012-04"|month_year=="2012-05"|month_year=
63
64 Q3_2012_sales <- summarise(group_by(Q3_2012,Store),sum(Weekly_Sales))
65
66
```

115:12 (Top Level) | R Script

Console | Terminal | Background Jobs

R 4.2.2 · ~/

```
44    44     43293088
45    45    112395341
> store_sales$sales_mean = aggregate(Weekly_Sales~Store,data=walmart, mean)$Weekly_Sale
s
> store_sales$sales_sd = aggregate(Weekly_Sales~Store,data=walmart, sd)$Weekly_Sales
> str(store_sales)
'data.frame':   45 obs. of  4 variables:
 $ Store       : Factor w/ 45 levels "1","2","3","4",..: 1 2 3 4 5 6 7 8 9 10 ...
 $ Weekly_Sales: num  2.22e+08 2.75e+08 5.76e+07 3.00e+08 4.55e+07 ...
 $ sales_mean  : num  1555264 1925751 402704 2094713 318012 ...
 $ sales_sd    : num  155981 237684 46320 266201 37738 ...
> arrange(store_sales, desc(sales_sd))
   Store Weekly_Sales sales_mean  sales_sd
1     14    288999911  2020978.4 317569.95
2     10    271617714  1899424.6 302262.06
3     20    301397792  2107676.9 275900.56
```

Environment | History | Connections | Tutorial

Import Dataset | 596 MiB | List

R | Global Environment

Q3_2012_sales	45 obs. of 2 variables
Q3_2012_Sales	0 obs. of 2 variables
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Files | Plots | Packages | Help | Viewer | Presentation

Install | Update

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clock	Date-Time Types and Tools	0.6.1
cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.4

caret

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins | Project: (None)

Walmart_Retail_Analysis Report.R | Data2 | semester_store1 | gr | walmart

Source on Save | Run | Source

```
35
36
37  ### Q1- which store has max sales?
38
39  Store_sales <-aggregate(weekly_Sales~Store, data = walmart, sum)
40  Store_sales
41  which.max(Store_sales$weekly_Sales)
42
43  ## Store 20 has max sale , Ammount-301397792
44
45  ## Q2- which store has maximum standard deviation
46
47  Store_sales$sales_mean <- aggregate(weekly_Sales~Store,data= walmart, mean)$weekl
48  Store_sales$sales_sd <- aggregate(weekly_Sales~Store, data=walmart,sd)$weekly_Sal
49  str(Store_sales)
50  arrange(Store_sales, desc(sales_sd))
```

115:12 (Top Level) R Script

Console | Terminal | Background Jobs

R 4.2.2 · ~/

```
> store_sales<- aggregate(weekly_Sales~Store, data = walmart,sum)
> store_sales
   Store weekly_Sales
1      1    222402809
2      2    275382441
3      3     57586735
4      4    299543953
5      5     45475689
6      6    223756131
7      7     81598275
8      8    129951181
9      9     77789219
10    10    271617714
11    11    193962787
12    12    144287230
13    13    286517704
```

Environment | History | Connections | Tutorial

Import Dataset | 596 MiB | List

R | Global Environment

Q3_2012_sales	45 obs. of 2 variables
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Files | Plots | Packages | Help | Viewer | Presentation

Install | Update

Name	Description	Version

User Library

abind	Combine Multidimensional Arrays	1.4-5	
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File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins | Project: (None)

Walmart_Retail_Analysis Report.R | Data2 | semester_store1 | gr | walmart

Source on Save | Run | Source

```
20
21 library("dplyr")
22 library("lubridate")
23 library("zoo")
24
25 #Data Visualization
26
27 library("grid")
28 library("vcd")
29 library("ggplot2")
30 library("plotly")
31
32 ## Converting Date column into Date format
33
34 walmart$Date = as.Date(walmart$Date,format="%d-%m-%Y")
35
36
```

115:12 (Top Level) | R Script

Console | Terminal | Background Jobs

R 4.2.2 · ~/

```
> walmart<- read.csv("walmart_Store_sales.csv", header = T)
> View(walmart)
> str(walmart)
'data.frame':   6435 obs. of  8 variables:
 $ Store       : int  1 1 1 1 1 1 1 1 1 1 ...
 $ Date        : chr  "05-02-2010" "12-02-2010" "19-02-2010" "26-02-2010" ...
 $ Weekly_Sales: num  1643691 1641957 1611968 1409728 1554807 ...
 $ Holiday_Flag: int  0 1 0 0 0 0 0 0 0 0 ...
 $ Temperature : num  42.3 38.5 39.9 46.6 46.5 ...
 $ Fuel_Price  : num  2.57 2.55 2.51 2.56 2.62 ...
 $ CPI         : num  211 211 211 211 211 ...
 $ Unemployment: num  8.11 8.11 8.11 8.11 8.11 ...
> head(walmart)
  Store       Date Weekly_Sales Holiday_Flag Temperature Fuel_Price      CPI
1     1 05-02-2010      1643691            0       42.31      2.572 211.0964
2     1 12-02-2010      1641957            1       38.51      2.548 211.2422
```

Environment | History | Connections | Tutorial

Import Dataset | 598 MiB | List

R | Global Environment

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Files | Plots | Packages | Help | Viewer | Presentation

Install | Update

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File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins | Project: (None)

Walmart_Retail_Analysis Report.R | Data2 | semester_store1 | gr | walmart

Source on Save | Run | Source

```
### Uploading and Reading the Dataset

walmart<- read.csv("Walmart_Store_sales.csv",header = TRUE)
View(walmart)
str(walmart)
head(walmart)
class(walmart)

### Descriptive Statistics

summary(walmart)

### Checking NA values

colSums(is.na(walmart))
```

115:12 (Top Level) | R Script

Console | Terminal | Background Jobs

R 4.2.2 · ~/

```
Coefficients:
             Estimate Std. Error t value Pr(>|t|)
(Intercept)  -2427856    1752958  -1.385   0.1683
Holiday_Flag    89376      49338   1.811   0.0723 .
Temperature     -2160        922  -2.343   0.0206 *
Fuel_Price     -24337      47335  -0.514   0.6080
CPI             16632       6786   2.451   0.0155 *
Unemployment    80209      58727   1.366   0.1742
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 146500 on 137 degrees of freedom
Multiple R-squared:  0.1495,    Adjusted R-squared:  0.1184
F-statistic: 4.815 on 5 and 137 DF,  p-value: 0.0004359

> walmart_lm1 = lm(Weekly_Sales ~ Holiday_Flag + Temperature ++ CPI , semester_store1)
```

Environment | History | Connections | Tutorial

Import Dataset | 597 MiB | List

R | Global Environment

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Files | Plots | Packages | Help | Viewer | Presentation

Install | Update

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bitops	Bitwise Operations	1.0-7
brio	Basic R Input Output	1.1.3
broom	Convert Statistical Objects into Tidy Tibbles	1.0.3
bslib	Custom 'Bootstrap' 'Sass' Themes for 'shiny' and 'rmarkdown'	0.4.2
cachem	Cache R Objects with Automatic Pruning	1.0.6
callr	Call R from R	3.7.3
car	Companion to Applied Regression	3.1-1
carData	Companion to Applied Regression Data Sets	3.0-5
caret	Classification and Regression Training	6.0-93
cellranger	Translate Spreadsheet Cell Ranges to Rows and Columns	1.1.0

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins | Project: (None)

Walmart_Retail_Analysis Report.R | Data2 | semester_store1 | gr | walmart

Filter

	Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	Wee
1	1	2010-02-05	1643691	0	42.31	2.572	211.0964	8.106	F
2	1	2010-02-12	1641957	1	38.51	2.548	211.2422	8.106	F
3	1	2010-02-19	1611968	0	39.93	2.514	211.2891	8.106	F
4	1	2010-02-26	1409728	0	46.63	2.561	211.3196	8.106	F
5	1	2010-03-05	1554807	0	46.50	2.625	211.3501	8.106	F
6	1	2010-03-12	1439542	0	57.79	2.667	211.3806	8.106	F
7	1	2010-03-19	1472516	0	54.58	2.720	211.2156	8.106	F
8	1	2010-03-26	1404430	0	51.45	2.732	211.0180	8.106	F
9	1	2010-04-02	1594968	0	62.27	2.719	210.8204	7.808	F

Showing 1 to 9 of 6,435 entries, 9 total columns

Console | Terminal | Background Jobs

R 4.2.2 · ~/

```
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  -233190     616327  -0.378  0.70574
Temperature    -2769        877  -3.157  0.00195 **
CPI             9156       2872   3.187  0.00177 **
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 147900 on 140 degrees of freedom
Multiple R-squared:  0.1139,    Adjusted R-squared:  0.1012
F-statistic: 8.998 on 2 and 140 DF,  p-value: 0.0002107

> Data2= walmart
> Data2$Weekdays = weekdays(Data2$Date)
> View(Data2)
> load("~/.RData")
>
```

Environment | History | Connections | Tutorial

Import Dataset | 596 MiB | List

R | Global Environment

Q3_2012_sales	45 obs. of 2 variables
Q3_2012_Sales	0 obs. of 2 variables
scatter.1	Large gg (9 elements, 1.4 MB)
semester_store1	143 obs. of 7 variables
store_sales	45 obs. of 4 variables
Store_sales	45 obs. of 4 variables

Files | Plots | Packages | Help | Viewer | Presentation

Install | Update

Name	Description	Version
backports	Reimplementations of functions introduced since R-3.0.0	1.4.1
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caret	Classification and Regression Training	6.0-93
cellranger	Translate Spreadsheet Cell Ranges to Rows and Columns	1.1.0
class	Functions for Classification	7.3-20
cli	Helpers for Developing Command Line Interfaces	3.5.0
clock	Date-Time Types and Tools	0.6.1
cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.4

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function | Addins | Project: (None)

Walmart_Retail_Analysis Report.R | Data2 | semester_store1 | gr | walmart

Filter

	Store	sum(Weekly_Sales).x	sum(Weekly_Sales).y	Growth_Rate
1	7	7290859	8262787	13.3307760
2	16	6564336	7121542	8.4883781
3	35	10838313	11322421	4.4666372
4	26	13155336	13675692	3.9554775
5	39	20214128	20715116	2.4784040
6	41	17659943	18093844	2.4784040
7	44	4306406	4411251	2.4346377
8	24	17684219	17976378	1.6520877
9	40	12727738	12873195	1.1428413
10	23	18488883	18641489	0.8253951

Showing 1 to 10 of 45 entries, 4 total columns

Console | Terminal | Background Jobs

R 4.2.2 · ~/

```
             Estimate Std. Error t value Pr(>|t|)
(Intercept)  -233190     616327  -0.378  0.70574
Temperature    -2769        877  -3.157  0.00195 **
CPI             9156       2872   3.187  0.00177 **
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 147900 on 140 degrees of freedom
Multiple R-squared:  0.1139,    Adjusted R-squared:  0.1012
F-statistic: 8.998 on 2 and 140 DF,  p-value: 0.0002107

> Data2= walmart
> Data2$weekdays = weekdays(Data2$Date)
> view(Data2)
> load("~/.RData")
>
```

Environment | History | Connections | Tutorial

Import Dataset | 596 MiB | List

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Files | Plots | Packages | Help | Viewer | Presentation

Install | Update

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class	Functions for Classification	7.3-20
cli	Helpers for Developing Command Line Interfaces	3.5.0
clock	Date-Time Types and Tools	0.6.1
cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.1.4