

# SHETH L.U.J. AND SIR M.V. COLLEGE

## SUBJECT:Data Analysis with R

Aim: Sorting data using arrange() in R

The screenshot shows the RStudio interface with three main panes:

- Code pane:** Displays R code for loading a dataset, converting cocoa percent to numeric, and sorting the data by rating.
- Data pane:** Shows two data frames: `sorted_rating` and `sorted_cocoa_desc`. The `sorted_rating` frame contains 5 rows of data from the original dataset, sorted by rating. The `sorted_cocoa_desc` frame contains 5 rows of data, sorted by decreasing cocoa percentage.
- Environment pane:** Shows the global environment with various objects and their types.

```

> # Load your dataset
> data <- read_csv("flavors_of_cacao.csv", show_col_types = FALSE)

> # Convert Cocoa Percent into numeric (e.g., "70%" -> 70)
> data$CocoaPercentNum <- as.numeric(gsub("%", "", data$cocoaPercent))

> # Quick view
> head(data)

# A tibble: 6 x 10
  Company `(Maker-if known)` Specific Bean Origin `REF` `Review\`nDate` `Cocoa\`nPercent` `Company\`nLocation` Rating
  <chr> <chr> <dbl> <chr> <dbl> <chr> <dbl>
1 A. Morin Agua Grande 1876 2016 63% France 3.75
2 A. Morin Kpime 1676 2015 70% France 2.75
3 A. Morin Atsane 1676 2015 70% France 3
4 A. Morin Akata 1680 2015 70% France 3.5
5 A. Morin Quilla 1704 2015 70% France 3.5
6 A. Morin Carenero 1315 2014 70% France 2.75

# i abbreviated names: `Company\`n(Maker-if known)`, `Specific Bean Origin\`nor Bar Name`
# i 3 more variables: `Bean\`nType` <chr>, `Broad Bean\`norigin` <chr>, `CocoaPercentNum` <dbl>
> sorted_rating <- data %>%
+   arrange(Rating)
> head(sorted_rating, 5)

# A tibble: 5 x 10
  Company `(Maker-if known)` Specific Bean Origin `REF` `Review\`nDate` `Cocoa\`nPercent` `Company\`nLocation` Rating
  <chr> <chr> <dbl> <chr> <dbl> <chr> <dbl>
1 Callebaut Baking 141 2007 70% Belgium 1
2 Claudio Corallo Principe 252 2008 100% Sao Tome 1
3 Cote d' or (Kraft) Sensations Intense 48 2006 70% Belgium 1
4 Neuhaus (Callebaut) Dark 135 2007 73% Belgium 1
5 Bonnat One Hundred 81 2006 100% France 1.5

# i abbreviated names: `Company\`n(Maker-if known)`, `Specific Bean Origin\`nor Bar Name`
# i 3 more variables: `Bean\`nType` <chr>, `Broad Bean\`norigin` <chr>, `CocoaPercentNum` <dbl>
> sorted_cocoa_desc <- data %>%
+   arrange(desc(CocoaPercentNum))
> head(sorted_cocoa_desc, 5)

# A tibble: 5 x 10
  Company `(Maker-if known)` Specific Bean Origin `REF` `Review\`nDate` `Cocoa\`nPercent` `Company\`nLocation` Rating
  <chr> <chr> <dbl> <chr> <dbl> <chr> <dbl>
1 A. Morin Agua Grande 1876 2016 63% France 3.75
2 A. Morin Kpime 1676 2015 70% France 2.75
3 A. Morin Atsane 1676 2015 70% France 3
4 A. Morin Akata 1680 2015 70% France 3.5
5 A. Morin Quilla 1704 2015 70% France 3.5

```

# SHETH L.U.J. AND SIR M.V. COLLEGE

## SUBJECT:Data Analysis with R

Showing 1 to 15 of 111 entries, 10 total columns

Company (Maker-if known)	Specific Bean Origin or Bar Name	REF	Review Date	Cocoa Percent	Company Location	Rating	Bean Type	Broad Bean Origin	CocoaPercentNum
1 Claudio Corallo	Principe	252	2008	100%	Sao Tome	1.00	Forastero	Sao Tome & Principe	100
2 Bonnat	One Hundred	81	2006	100%	France	1.50			100
3 Bouga Cacao (Tulicorp)	El Oro, Hacienda de Oro	341	2009	100%	Ecuador	1.50	Forastero (Arriba)	Ecuador	100
4 Cacaoyere (Ecuatoriana)	Pichincha	259	2008	91%	Ecuador	1.50	Forastero (Arriba)	Ecuador	91
5 Coppeneur	Ecuador Puristique	817	2012	100%	Germany	1.50		Ecuador	100
6 S.A.I.D.	100 percent	615	2010	100%	Italy	1.50			100
7 Valrhona	Le Noir Extra Amer	147	2007	85%	France	1.50			85
8 Artisan du Chocolat	Venezuela	486	2010	100%	U.K.	1.75	/NA	Venezuela	100
9 Hotel Chocolat	Island Growers, 2012, 120hr c.	1113	2013	100%	U.K.	1.75	Trinitario	St. Lucia	100
10 French Broad	Palo Blanco w/ panela, Chulucanas	887	2012	81%	U.S.A.	2.00		Peru	81
11 Habitual	one hundred	1205	2014	100%	Canada	2.00			100
12 Michel Cluizel	Carre Grand Noir	24	2006	85%	France	2.00			85
13 Michel Cluizel	Noir Infini	81	2006	99%	France	2.00			99
14 Pacari	Raw	266	2008	100%	Ecuador	2.00	Forastero (Arriba)	Ecuador	100
15 Scharffen Berger	Extra Dark	15	2006	82%	U.S.A.	2.00			82

```
R > R 4.5.2 . ~/r
1 100%      1.5 Sao Tome
2 100%      1.5 France
3 100%      1.5 Ecuador
4 91%       1.5 Ecuador
5 100%      1.5 Germany
> view(data)
> view(high_cocoa_sorted)
> 
```

Type here to search ENG 08:17 PM US 24-11-2025

Showing 1 to 15 of 1,795 entries, 10 total columns

Company (Maker-if known)	Specific Bean Origin or Bar Name	REF	Review Date	Cocoa Percent	Company Location	Rating	Bean Type	Broad Bean Origin	CocoaPercentNum
1 Chocolate Makers	Peru, Awagum bar	1530	2015	80%	Amsterdam	3.75	Criollo	Peru	80
2 Chocolate Makers	Congo, Gorilla bar	1530	2015	68%	Amsterdam	3.50	Forastero	Congo	68
3 Metropolitan	South America	1688	2015	70%	Amsterdam	3.50	Trinitario	South America	70
4 Chocolate Makers	Tres Hombres	1530	2015	75%	Amsterdam	3.25	Trinitario	Dominican Republic	75
5 Compania de Chocolate (Salgado)	Ocumare	292	2008	70%	Argentina	3.75	Criollo	Venezuela	70
6 Salgado	Bahia Superior	288	2008	70%	Argentina	3.50	Forastero	Brazil	70
7 Salgado	Esmeraldas	288	2008	70%	Argentina	3.50	Forastero (Nacional)	Ecuador	70
8 Salgado	Carenero Superior	288	2008	70%	Argentina	3.50	Trinitario	Venezuela	70
9 Salgado	Rio Arriba	292	2008	70%	Argentina	3.50	Forastero (Arriba) A5SS	Ecuador	70
10 Compania de Chocolate (Salgado)	Sur del Lago	579	2010	70%	Argentina	3.25		Venezuela	70
11 Compania de Chocolate (Salgado)	Moxos	292	2008	72%	Argentina	3.25		Bolivia	72
12 Compania de Chocolate (Salgado)	Carenero Superior	292	2008	80%	Argentina	2.75	Trinitario	Venezuela	80
13 Compania de Chocolate (Salgado)	Esmeraldas	296	2008	88%	Argentina	2.75	Forastero (Nacional)	Ecuador	88
14 Mataie	Somia, 2013	1177	2013	68%	Australia	4.00	Trinitario	Madagascar	68
15 Mataie	Kullii P., 2013	1177	2013	74%	Australia	4.00	Trinitario	Papua New Guinea	74

```
R > R 4.5.2 . ~/r
2 100%      1.5 France
3 100%      1.5 Ecuador
4 91%       1.5 Ecuador
5 100%      1.5 Germany
> view(data)
> view(high_cocoa_sorted)
> view(multi_sorted)
> 
```

Type here to search ENG 08:17 PM US 24-11-2025

