

SHETH LUJ AND SIR MV COLLEGE

Aim: 5 Sorting data using arrange() in R.

The image shows two side-by-side RStudio sessions. Both sessions have the following setup:

- File Edit Code View Plots Session Build Debug Profile Tools Help**
- Console Terminal Background Jobs**
- Import Dataset 131 MB**
- Environment History Connections Tutorial**
- Global Environment** pane listing various objects (e.g., `olympics`, `low_price_filter`, `member_or_normal`).
- Files Plots Packages Help Viewer Presentation** tabs.
- Project** pane showing a folder named "Nishita" containing files like `Athens 2004 Olympics Nations Medals.csv` and several Python scripts (DS_5.py, DS_P3_S080.py, DS6_80.py, ds6.py, ds8.py, OS_P4.py, S080_7.py, s080.py, S080scala, PS_S080.R).
- Source** pane showing R code for data manipulation.

Session 1 (Top):

```

> olympics <- read.csv("~/Nishita/Athens 2004 Olympics Nations Medals.csv")
> library(dplyr)
>
> olympics <- read.csv("~/Nishita/Athens 2004 Olympics Nations Medals.csv")
>
> head(olympics)
#> #> #> #> #> 
#>   NOC Gold Silver Bronze Total
#> 1 USA 36 39 26 101
#> 2 CHN 32 17 15 64
#> 3 RUS 28 26 36 90
#> 4 AUS 17 16 17 50
#> 5 JPN 16 9 12 37
#> 6 GER 13 16 20 49
> colnames(olympics)
#> [1] "NOC"    "Gold"   "silver"  "Bronze"  "Total"
> 
> olympics_sorted_gold <- olympics |>
+   arrange(Gold)
>
> head(olympics_sorted_gold, 5)
#> #> #> #> #> 
#>   NOC Gold Silver Bronze Total
#> 1 PRK 0 4 1 5
#> 2 LAT 0 4 0 4
#> 3 MEX 0 3 1 4
#> 4 POR 0 2 1 3
#> 5 FIN 0 2 0 2
>
> olympics_sorted_total_desc <- olympics |>
+   arrange(desc(Total))
>
> head(olympics_sorted_total_desc, 5)
#> #> #> #> #> 
#>   NOC Gold Silver Bronze Total
#> 1 USA 36 39 26 101
#> 2 RUS 28 26 36 90
#> 3 CHN 32 17 15 64
#> 4 AUS 17 16 17 50
#> 5 GER 13 16 20 49
>
> olympics_multi_sort <- olympics |>
+   arrange(Gold, desc(Silver))
>
> head(olympics_multi_sort, 10)
#> #> #> #> #> #> #> #> #> #> 
#>   NOC Gold Silver Bronze Total
#> 1 PRK 0 4 1 5
#> 2 LAT 0 4 0 4
#> 3 MEX 0 3 1 4
#> 4 POR 0 2 1 3
#> 5 FIN 0 2 0 2
#> 6 SCG 0 2 0 2
#> 7 SLO 0 1 3 4
#> 8 EST 0 1 2 3
#> 9 HKG 0 1 0 1
#> 10 IND 0 1 0 1
>
> olympics_high_gold <- olympics |>
+   filter(Gold > 20) |>
+   arrange(Total)
>
> olympics_high_gold |>
+   select(NOC, Gold, Total) |>
+   head(5)
#> #> #> #> #> 
#>   NOC Gold Total
#> 1 CHN 32 64
#> 2 RUS 28 90
#> 3 USA 36 101
> |

```

Session 2 (Bottom):

```

> olympics_sorted_total_desc <- olympics |>
+   arrange(desc(Total))
>
> head(olympics_sorted_total_desc, 5)
#> #> #> #> #> 
#>   NOC Gold Silver Bronze Total
#> 1 USA 36 39 26 101
#> 2 RUS 28 26 36 90
#> 3 CHN 32 17 15 64
#> 4 AUS 17 16 17 50
#> 5 GER 13 16 20 49
>
> olympics_multi_sort <- olympics |>
+   arrange(Gold, desc(Silver))
>
> head(olympics_multi_sort, 10)
#> #> #> #> #> #> #> #> #> #> 
#>   NOC Gold Silver Bronze Total
#> 1 PRK 0 4 1 5
#> 2 LAT 0 4 0 4
#> 3 MEX 0 3 1 4
#> 4 POR 0 2 1 3
#> 5 FIN 0 2 0 2
#> 6 SCG 0 2 0 2
#> 7 SLO 0 1 3 4
#> 8 EST 0 1 2 3
#> 9 HKG 0 1 0 1
#> 10 IND 0 1 0 1
>
> olympics_high_gold <- olympics |>
+   filter(Gold > 20) |>
+   arrange(Total)
>
> olympics_high_gold |>
+   select(NOC, Gold, Total) |>
+   head(5)
#> #> #> #> #> 
#>   NOC Gold Total
#> 1 CHN 32 64
#> 2 RUS 28 90
#> 3 USA 36 101
> |

```