

Course 1 Section 2.22 - Arrange: ordering rows

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```
library(tidyverse)
library(here)
tb_long <- read_rds(here("data", "tb_long.rds"))
tb_long
```

```
## # A tibble: 157,820 x 7
##   country    iso3  year type  sex  age_group count
##   <chr>      <chr> <dbl> <chr> <chr> <chr>      <dbl>
## 1 Afghanistan AFG   1980 new_sp m    04         NA
## 2 Afghanistan AFG   1981 new_sp m    04         NA
## 3 Afghanistan AFG   1982 new_sp m    04         NA
## 4 Afghanistan AFG   1983 new_sp m    04         NA
## 5 Afghanistan AFG   1984 new_sp m    04         NA
## 6 Afghanistan AFG   1985 new_sp m    04         NA
## 7 Afghanistan AFG   1986 new_sp m    04         NA
## 8 Afghanistan AFG   1987 new_sp m    04         NA
## 9 Afghanistan AFG   1988 new_sp m    04         NA
## 10 Afghanistan AFG   1989 new_sp m    04         NA
## # ... with 157,810 more rows
```

Q1: sort the results in descending order, for example, alphabetically

```
arrange(tb_long, desc(country))
```

```
## # A tibble: 157,820 x 7
##   country    iso3  year type  sex  age_group count
##   <chr>      <chr> <dbl> <chr> <chr> <chr>      <dbl>
## 1 Zimbabwe ZWE   1980 new_sp m    04         NA
## 2 Zimbabwe ZWE   1981 new_sp m    04         NA
## 3 Zimbabwe ZWE   1982 new_sp m    04         NA
## 4 Zimbabwe ZWE   1983 new_sp m    04         NA
## 5 Zimbabwe ZWE   1984 new_sp m    04         NA
## 6 Zimbabwe ZWE   1985 new_sp m    04         NA
## 7 Zimbabwe ZWE   1986 new_sp m    04         NA
## 8 Zimbabwe ZWE   1987 new_sp m    04         NA
## 9 Zimbabwe ZWE   1988 new_sp m    04         NA
## 10 Zimbabwe ZWE   1989 new_sp m    04         NA
## # ... with 157,810 more rows
```

Q2: arrange the dataset by the first 10 countries.

```
tb_long %>%  
  group_by(country) %>%  
  summarise(sum = sum(count, na.rm = TRUE)) %>%  
  arrange(desc(sum)) %>%  
  top_n(10)
```

```
## # A tibble: 10 x 2  
##   country          sum  
##   <chr>          <dbl>  
## 1 India          6492850  
## 2 China          5643738  
## 3 Indonesia      1886657  
## 4 South Africa   1435147  
## 5 Bangladesh     1072431  
## 6 Viet Nam       915525  
## 7 Democratic Republic of the Congo 889682  
## 8 Philippines     858492  
## 9 Pakistan       826354  
## 10 Brazil        600729
```