Assignment-2

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# PART 1

## Q1 : Calculate the five-number summary statistics (minimum-Q1-median-Q3-maximum) of covid-19 daily new cases for each country within each month. (you can use quantile() function to get the quartiles)

## `summarise()` has grouped output by 'location'. You can override using the `.groups` argument.

## # A tibble: 126 x 7  
## # Groups: location [12]  
## location month min Q1 median Q3 max  
## <chr> <int> <int> <dbl> <dbl> <dbl> <int>  
## 1 Albania 2 NA NA NA NA NA  
## 2 Albania 3 NA 10 11 20 NA  
## 3 Albania 4 13 16 19 27.8 34  
## 4 Albania 5 4 5.5 8.5 13.5 17  
## 5 Albania 6 6 27 60.5 73.2 82  
## 6 Albania 7 45 75 90 105 117  
## 7 Albania 8 124 140. 144. 155. 158  
## 8 Albania 9 121 124 144 150 152  
## 9 Albania 10 158 166. 244. 296 301  
## 10 Albania 11 495 500. 573 668 737  
## # ... with 116 more rows

## Q2 : Find the highest daily cases and deaths separately for each country.

## # A tibble: 12 x 3  
## location max\_death max\_case  
## <chr> <int> <int>  
## 1 Albania 18 879  
## 2 Andorra 4 187  
## 3 Austria 128 6901  
## 4 Belarus 10 1957  
## 5 Belgium 290 23921  
## 6 Bosnia and Herzegovina 86 1953  
## 7 Bulgaria 221 4390  
## 8 Croatia 72 4396  
## 9 Cyprus 5 907  
## 10 Czechia 216 16420  
## 11 Denmark 30 4508  
## 12 Estonia 6 561

## Q3 : Identify the month in which the mean daily cases is the highest for each country

## `summarise()` has grouped output by 'location'. You can override using the `.groups` argument.

## # A tibble: 10 x 3  
## # Groups: location [10]  
## location month mean\_of\_dailycases  
## <chr> <int> <dbl>  
## 1 Andorra 11 57.8  
## 2 Austria 11 6390.   
## 3 Belarus 12 1814.   
## 4 Belgium 10 14540.   
## 5 Bosnia and Herzegovina 11 1609.   
## 6 Bulgaria 11 3173.   
## 7 Croatia 12 2774.   
## 8 Cyprus 12 364.   
## 9 Denmark 12 3223.   
## 10 Estonia 12 469.

## Q4 : Select 3 country and plot the distribution of daily cases by month. Use location as clusters (i.e., color=location) to show the difference between countries.

## Warning: Removed 6 rows containing non-finite values (stat\_boxplot).

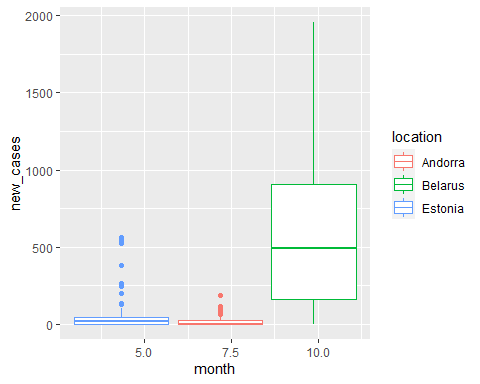


Figure 1. The distribution of daily cases by month.

## PART 2

## [1] "New Data "

## [1] "The" "empty" "flask" "stood" "on"   
## [6] "the" "tin" "tray" "sink" "is"   
## [11] "thing" "in" "which" "we" "pile"   
## [16] "dishes" "We" "now" "have" "a"   
## [21] "new" "base" "for" "shipping" "wagon"   
## [26] "moved" "well" "oiled" "wheels" "Smoke"   
## [31] "poured" "out" "of" "every" "crack"   
## [36] "club" "rented" "rink" "fifth" "night"   
## [41] "Mark" "spot" "with" "sign" "painted"   
## [46] "red" "It" "matters" "not" "if"   
## [51] "he" "reads" "these" "words" "or"   
## [56] "those" "cloud" "stately" "way" "and"   
## [61] "was" "gone" "late" "morning" "old"   
## [66] "wall" "clock" "first" "part" "plan"   
## [71] "needs" "changing" "birch" "canoe" "slid"   
## [76] "smooth" "planks" "Guess" "results" "from"   
## [81] "scores" "A" "cramp" "no" "small"   
## [86] "danger" "swim" "fur" "muff" "stylish"   
## [91] "once" "more" "leaf" "drifts" "along"   
## [96] "slow" "spin" "Those" "last" "were"   
## [101] "strong" "statement" "looked" "stark" "white"   
## [106] "lonesome" "His" "shirt" "clean" "but"   
## [111] "one" "button" "Both" "brothers" "wear"   
## [116] "same" "size" "young" "kid" "jumped"   
## [121] "rusty" "gate" "youth" "drove" "zest"   
## [126] "little" "skill" "coffee" "stand" "too"   
## [131] "high" "couch" "To" "better" "than"   
## [136] "to" "wait" "hope" "line" "where"   
## [141] "edges" "join" "Write" "fast" "you"   
## [146] "want" "finish" "early" "cup" "sugar"   
## [151] "makes" "sweet" "fudge" "note" "can"   
## [156] "cause" "despair" "beam" "dropped" "down"   
## [161] "workmen's" "head" "Men" "think" "sometimes"   
## [166] "act" "Sunday" "best" "week" "child's"   
## [171] "wit" "saved" "day" "us" "Watch"   
## [176] "log" "float" "wide" "river" "paper"   
## [181] "box" "full" "thumb" "tacks" "Always"   
## [186] "close" "barn" "door" "tight" "girl"   
## [191] "fired" "today" "at" "noon" "black"   
## [196] "trunk" "fell" "landing" "Tuck" "sheet"   
## [201] "under" "edge" "mat" "stuffed" "chair"   
## [206] "slipped" "moving" "van" "flat" "pack"   
## [211] "takes" "less" "luggage" "space" "She"   
## [216] "waiting" "my" "front" "lawn" "mail"   
## [221] "comes" "three" "batches" "per" "slang"   
## [226] "word" "raw" "whiskey" "booze" "They"   
## [231] "sang" "tunes" "each" "party" "Fruit"   
## [236] "flavors" "are" "used" "fizz" "drinks"   
## [241] "bowl" "rice" "free" "chicken" "stew"   
## [246] "Take" "winding" "path" "reach" "lake"   
## [251] "Open" "your" "book" "page" "steady"   
## [256] "drip" "worse" "drenching" "rain" "toad"   
## [261] "frog" "hard" "tell" "apart" "team"   
## [266] "timing" "looks" "good" "Farmers" "came"   
## [271] "thresh" "oat" "crop" "bills" "mailed"   
## [276] "promptly" "tenth" "month" "loss" "second"   
## [281] "ship" "take" "Footprints" "showed" "took"   
## [286] "up" "beach" "Hemp" "weed" "found"   
## [291] "parts" "tropics" "kite" "flew" "wildly"   
## [296] "wind" "These" "coins" "will" "be"   
## [301] "needed" "pay" "his" "debt" "Four"   
## [306] "hours" "work" "faced" "blotter" "made"   
## [311] "by" "green" "ink" "boy" "owed"   
## [316] "pal" "thirty" "cents" "It's" "easy"   
## [321] "depth" "In" "rear" "ground" "floor"   
## [326] "large" "passage" "Dill" "pickles" "sour"   
## [331] "taste" "fine" "Move" "vat" "over"   
## [336] "hot" "fire" "Slide" "catch" "back"   
## [341] "open" "desk" "Corn" "cobs" "kindle"   
## [346] "match" "strike" "it" "against" "shoe"   
## [351] "Most" "hear" "Hedge" "apples" "may"   
## [356] "stain" "hands" "Soap" "wash" "most"   
## [361] "dirt" "away" "If" "mumble" "speech"   
## [366] "lost" "Small" "children" "see" "him"   
## [371] "junk" "yard" "had" "mouldy" "smell"   
## [376] "informs" "what" "ought" "know" "Xew"   
## [381] "pants" "lack" "cuffs" "pockets" "Steam"   
## [386] "hissed" "broken" "valve" "end" "much"   
## [391] "courage" "wisp" "hung" "blue" "air"   
## [396] "Press" "pedal" "left" "foot" "Act"   
## [401] "orders" "great" "speed" "pennant" "waved"   
## [406] "when" "blew" "hidden" "sight" "mass"   
## [411] "leaves" "shrubs" "their" "lives" "raging"   
## [416] "storm" "dash" "pepper" "spoils" "beef"   
## [421] "cover" "hall" "drapes" "Beef" "scarcer"   
## [426] "some" "lamb" "Dunk" "stale" "biscuits"   
## [431] "into" "drink" "streets" "narrow" "sharp"   
## [436] "turns" "Madam" "this" "brand" "corn"   
## [441] "ii" "dust" "stung" "tender" "eyes"   
## [446] "erase" "salt" "breeze" "across" "sea"   
## [451] "Next" "twelfth" "shift" "men" "rate"   
## [456] "extra" "child" "almost" "hurt" "dog"   
## [461] "neon" "lamp" "went" "Hold" "hammer"   
## [466] "near" "drive" "nail" "Plead" "lawyer"   
## [471] "drop" "He" "sent" "figs" "kept"   
## [476] "ripe" "cherries"

## Q1 : Find words which are starting with start a and ending with e.

## # A tibble: 1 x 1  
## word   
## <chr>  
## 1 are

## Q2 : Calculate the number of words which have more than 3 vowels.

## [1] "words with vowel numbers greater than 3"

## # A tibble: 25 x 2  
## word vowels  
## <chr> <int>  
## 1 oiled 3  
## 2 poured 3  
## 3 painted 3  
## 4 canoe 3  
## 5 statement 3  
## 6 looked 3  
## 7 lonesome 4  
## 8 coffee 3  
## 9 cause 3  
## 10 despair 3  
## # ... with 15 more rows

## [1] "The total number of words with more than 3 vowels in the words:"

## [1] 25

## Q3 : List the five longest word in your data

## [1] "5 Longest word in my data:"

## [1] "Footprints" "statement" "workmen's" "sometimes" "drenching"

## Q4 : Try to find word(s) which contain any of these words: age, any, day, exp, her, pro, the.

## # A tibble: 14 x 1  
## word   
## <chr>   
## 1 the   
## 2 these   
## 3 brothers  
## 4 where   
## 5 Sunday   
## 6 day   
## 7 today   
## 8 luggage   
## 9 page   
## 10 promptly  
## 11 passage   
## 12 courage   
## 13 their   
## 14 cherries

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