

Week-9_Challenge

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Question 1:

```
library(tidyverse)
```

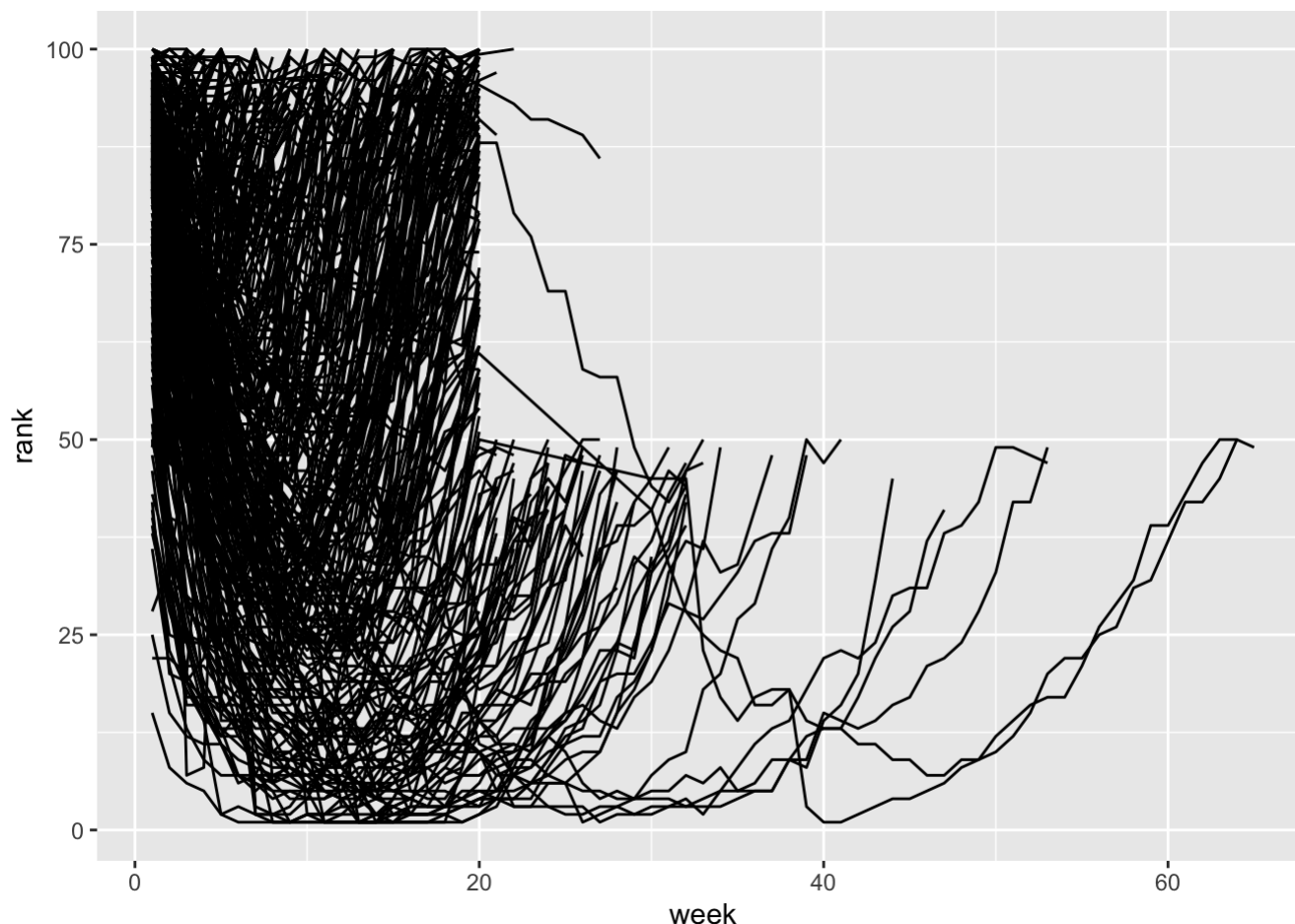
```
## — Attaching core tidyverse packages — tidyverse 2.0.0 —
## ✓ dplyr      1.1.3    ✓ readr      2.1.4
## ✓ forcats    1.0.0    ✓ stringr    1.5.0
## ✓ ggplot2     3.4.4    ✓ tibble     3.2.1
## ✓ lubridate  1.9.3    ✓ tidyr      1.3.0
## ✓ purrr      1.0.2
## — Conflicts — tidyverse_conflicts() —
## ✖ dplyr::filter() masks stats::filter()
## ✖ dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
newbillboard <- billboard %>%
  pivot_longer(
    cols = starts_with("wk"),
    names_to = "week",
    values_to = "rank",
    values_drop_na = TRUE
  ) %>%
  mutate(week = parse_number(week))
```

```
newbillboard
```

```
## # A tibble: 5,307 × 5
##   artist track date.entered week rank
##   <chr> <chr> <date> <dbl> <dbl>
## 1 2 Pac Baby Don't Cry (Keep... 2000-02-26 1 87
## 2 2 Pac Baby Don't Cry (Keep... 2000-02-26 2 82
## 3 2 Pac Baby Don't Cry (Keep... 2000-02-26 3 72
## 4 2 Pac Baby Don't Cry (Keep... 2000-02-26 4 77
## 5 2 Pac Baby Don't Cry (Keep... 2000-02-26 5 87
## 6 2 Pac Baby Don't Cry (Keep... 2000-02-26 6 94
## 7 2 Pac Baby Don't Cry (Keep... 2000-02-26 7 99
## 8 2Ge+her The Hardest Part Of ... 2000-09-02 1 91
## 9 2Ge+her The Hardest Part Of ... 2000-09-02 2 87
## 10 2Ge+her The Hardest Part Of ... 2000-09-02 3 92
## # i 5,297 more rows
```

```
ggplot(newbillboard,
  aes(y = rank, x = week, group = track)) +
  geom_line()
```



Question 2:

```
library(tidyverse)
```

```
cms_patient_experience
```

```
## # A tibble: 500 × 5
##   org_pac_id org_nm          measure_cd measure_title prf_rate
##   <chr>      <chr>          <chr>      <chr>          <dbl>
## 1 0446157747 USC CARE MEDICAL GROUP INC CAHPS_GRP... CAHPS for MI...      63
## 2 0446157747 USC CARE MEDICAL GROUP INC CAHPS_GRP... CAHPS for MI...      87
## 3 0446157747 USC CARE MEDICAL GROUP INC CAHPS_GRP... CAHPS for MI...      86
## 4 0446157747 USC CARE MEDICAL GROUP INC CAHPS_GRP... CAHPS for MI...      57
## 5 0446157747 USC CARE MEDICAL GROUP INC CAHPS_GRP... CAHPS for MI...      85
## 6 0446157747 USC CARE MEDICAL GROUP INC CAHPS_GRP... CAHPS for MI...      24
## 7 0446162697 ASSOCIATION OF UNIVERSITY PHYSI... CAHPS_GRP... CAHPS for MI...      59
## 8 0446162697 ASSOCIATION OF UNIVERSITY PHYSI... CAHPS_GRP... CAHPS for MI...      85
## 9 0446162697 ASSOCIATION OF UNIVERSITY PHYSI... CAHPS_GRP... CAHPS for MI...      83
## 10 0446162697 ASSOCIATION OF UNIVERSITY PHYSI... CAHPS_GRP... CAHPS for MI...      63
## # i 490 more rows
```

```
new_cms_patient_experience <- cms_patient_experience %>%
  pivot_wider(
    names_from = measure_cd,
    values_from = prf_rate,
    id_cols = starts_with("org")
  )

new_cms_patient_experience
```

```
## # A tibble: 95 × 8
##   org_pac_id org_nm CAHPS_GRP_1 CAHPS_GRP_2 CAHPS_GRP_3 CAHPS_GRP_5 CAHPS_GRP_8
##   <chr>      <chr>      <dbl>      <dbl>      <dbl>      <dbl>      <dbl>
## 1 0446157747 USC C...      63        87        86        57        85
## 2 0446162697 ASSOC...      59        85        83        63        88
## 3 0547164295 BEAVE...      49        NA        75        44        73
## 4 0749333730 CAPE ...      67        84        85        65        82
## 5 0840104360 ALLIA...      66        87        87        64        87
## 6 0840109864 REX H...      73        87        84        67        91
## 7 0840513552 SCL H...      58        83        76        58        78
## 8 0941545784 GRITM...      46        86        81        54        NA
## 9 1052612785 COMMU...      65        84        80        58        87
## 10 1254237779 OUR L...      61        NA        NA        65        NA
## # i 85 more rows
## # i 1 more variable: CAHPS_GRP_12 <dbl>
```