Challenge Week 9

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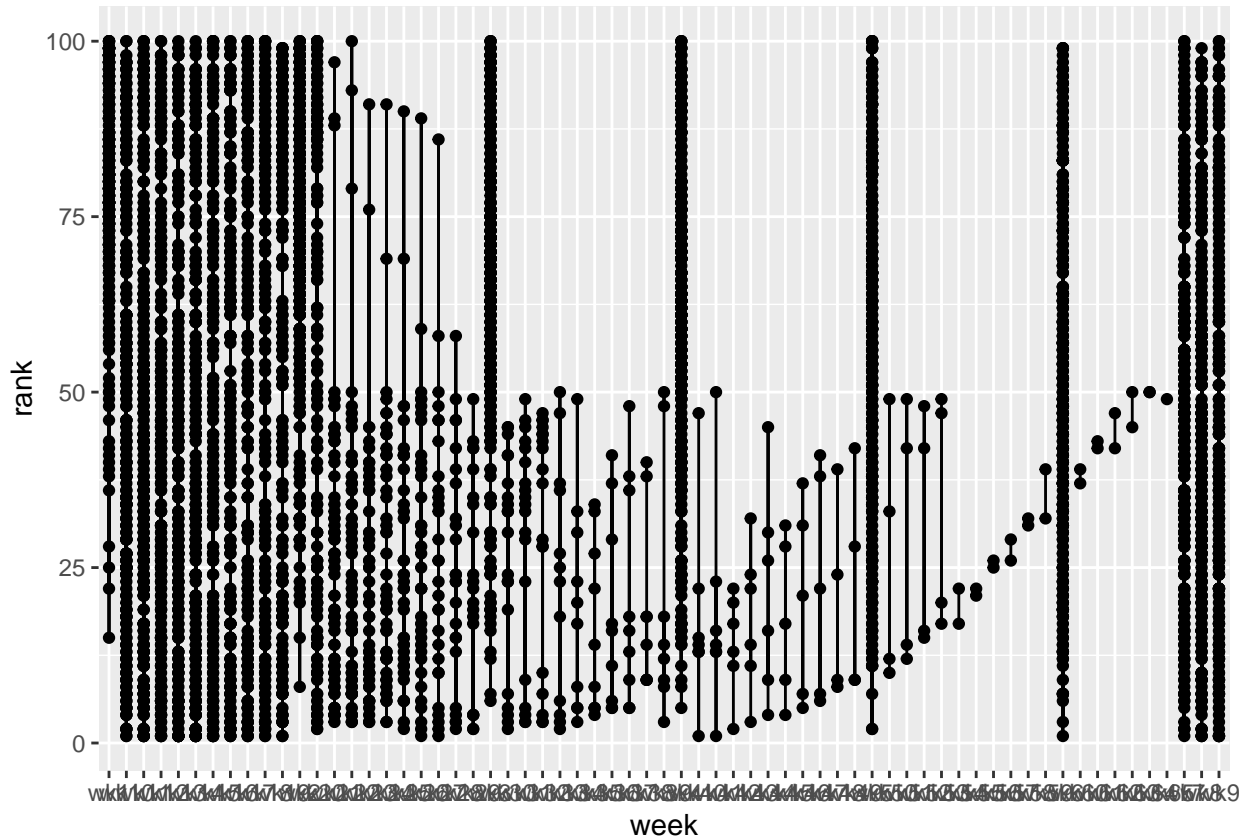
1.

```
library(tidyverse)
```

```
## -- Attaching core tidyverse packages ----------------------- tidyverse 2.0.0 --
## v dplyr     1.1.2     v readr     2.1.4
## v forcats   1.0.0     v stringr   1.5.0
## v ggplot2   3.4.3     v tibble    3.2.1
## v lubridate 1.9.2     v tidyr     1.3.0
## v purrr     1.0.2
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x 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,
  )
#make it so only the number shows in the week column
newbillboard %>%
  mutate(week = parse_number(week))
```

```
## # A tibble: 5,307 x 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
```

```r
#plot
ggplot(newbillboard) +
  aes(x=week,y=rank) +
  geom_point() +
  geom_line(aes(group = week))
```


2.

```r
cms_patient_experience %>%
  pivot_wider(
    names_from="measure_cd",
    values_from="prf_rate",
    #tell pivot_wider() which column/columns have values that uniquely identify each row
    id_cols = starts_with("org")
  )
```

```
## # A tibble: 95 x 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>
```