10/3/2019 Music Insights

Music Insights

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```
library("tidyverse")
```

```
## — Conflicts — t
idyverse_conflicts() —
## * dplyr::filter() masks stats::filter()
## * dplyr::lag() masks stats::lag()
```

```
library("dplyr")
library("tidyr")
library("readr")

survey <- read_csv("https://raw.githubusercontent.com/introdsci/MusicSurvey/master/music-survey.csv")</pre>
```

```
## Parsed with column specification:
##
    Timestamp = col character(),
    `First, we are going to create a pseudonym for you to keep this survey anonymous (m
ore or less). Which pseudonym generator would you prefer? = col character(),
##
    `What is your pseudonym?` = col character(),
   Sex = col character(),
##
   Major = col character(),
##
    `Academic Year` = col character(),
##
     Year you were born (YYYY) = col double(),
    `Which musical instruments/talents do you play? (Select all that apply)` = col char
acter(),
##
    Artist = col character(),
    Song = col character(),
##
##
    `Link to song (on Youtube or Vimeo)` = col character()
## )
```

```
preferences <- read_csv("https://raw.githubusercontent.com/introdsci/MusicSurvey/master/
preferences-survey.csv")</pre>
```

10/3/2019 Music Insights

```
## Parsed with column specification:
## cols(
## .default = col_double(),
## Timestamp = col_character(),
## `What was your pseudonym?` = col_character()
## )
```

```
## See spec(...) for full column specifications.
```

Cleaning Variable Names

```
colnames(survey)[colnames(survey) == "Timestamp"] <- "time_submitted"</pre>
colnames(survey)[colnames(survey) == "First, we are going to create a pseudonym for you
to keep this survey anonymous (more or less). Which pseudonym generator would you prefe
r?"] <- "pseudonym_generator"
colnames(survey)[colnames(survey) == "What is your pseudonym?"] <- "pseudonym"</pre>
colnames(survey)[colnames(survey) == "Which musical instruments/talents do you play? (Se
lect all that apply)"] <- "instrument_list"</pre>
colnames(survey)[colnames(survey) == "Major"] <- "academic major"</pre>
colnames(survey)[colnames(survey) == "Year you were born (YYYY)"] <- "year born"</pre>
colnames(survey)[colnames(survey) == "Artist"] <- "favorite song artist"</pre>
colnames(survey)[colnames(survey) == "Link to song (on Youtube or Vimeo)"] <- "favorite</pre>
song link"
colnames(survey)[colnames(survey) == "Sex"] <- "sex"</pre>
colnames(survey)[colnames(survey) == "Academic Year"] <- "academic level"</pre>
colnames(survey)[colnames(survey) == "Song"] <- "favorite song"</pre>
colnames(survey)
```

Creating Tables

10/3/2019 Music Insights

```
Person <- tibble(time_submitted = survey$time_submitted, pseudonym = survey$pseudonym, s
ex = survey$sex, academic_major = survey$academic_major, academic_level = survey$academic_level, year_born = survey$year_born)

FavoriteSong <- tibble(pseudonym = survey$pseudonym, artist = survey$favorite_song_artist, song = survey$favorite_song, link = survey$favorite_song_link)
```

Cleaning Data

```
\label{lem:person} Person\$time\_submitted <- as.POSIXlt(parse\_datetime(Person\$time\_submitted, format="%m/% d/%y %H:%M"))
```

Cleaning academic major's levels by making the letter cases more consistent:

```
Person$academic_major <- as.factor(Person$academic_major)
levels(Person$academic_major)[levels(Person$academic_major) == "Computer information systems"] <- "Computer Information Systems"
levels(Person$academic_major)</pre>
```

Create a 'Rating' Table

Create a Ratings table using the R function gather()

```
preferences$Timestamp <- NULL
Rating <- gather(preferences,artist_song,rating,"40 crew\tNot Enough" :"Wheezer\tBuddy H
olly")
Rating <- tibble(pseudonym = Rating$`What was your pseudonym?`, artist_song = Rating$art
ist_song, rating = Rating$rating)</pre>
```