

Piano Technical Assignment - R

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```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##     filter, lag
```

```
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(httr)
library(jsonlite)
```

```
#Read FileA and FileB and join on userid
fileA<- read.csv("/Users/shahrarnizam/Documents/Piano/FileA.csv" , head(T))
fileB<-read.csv("/Users/shahrarnizam/Documents/Piano/FileB.csv" , head(T))
merged <- merge(fileA,fileB,by=c('user_id'),all.x=T)
```

```
merged
```

user_id<chr>	email<chr>	first_name<chr>	last_name<chr>
4dBdXURAz3	user_6@example.com	Jacques	Cuellar
fBYRtPtAIC	user_7@example.com	John	Smith
fjM66woroy	user_0@example.com	Yadira	Irving
fOSjdLnNP3	user_9@example.com	Qiana	Walk
fQLNIRDae8	user_5@example.com	Vella	Lynam
gXWj37JC5d	user_8@example.com	Shaun	Kreiger
oh4mHXh8zN	user_3@example.com	Julie	Mosser
oi6lhEzu9R	user_2@example.com	Leatrice	Oquinn
uxz2jFwr5l	user_1@example.com	Benito	Festa
zSbmdNiSHH	user_4@example.com	Taryn	Jaycox

1-10 of 10 rows

```
#Get API usernames
res = GET("https://sandbox.piano.io/api/v3/publisher/user/list",
          query = list(aid="0lsRRZSLlw", api_token="zziNT8lwShznaJw2BD5eLA4VCkmNJ88Guye7Sw4D",
                      limit=100, offset=0))
data = fromJSON(rawToChar(res$content))

data
```

```
## $code
## [1] 0
##
## $ts
## [1] 1623386583
##
## $limit
## [1] 100
##
## $offset
## [1] 0
##
## $total
## [1] 7
##
## $count
## [1] 9
##
## $users
##   first_name last_name personal_name          email      uid
## 1      <NA>      <NA>      <NA>      has@access.com PNIAHeDI8pjduak
## 2      <NA>      <NA>      <NA>      no@access.com  PNITyDyAOpjdubb
## 3      <NA>      <NA>      <NA>      user_0@example.com PNISGXVjCpnhexk
## 4      <NA>      <NA>      <NA>      user_9@example.com PNIABp6mSpnhexq
## 5      <NA>      <NA>      <NA>      user_5@example.com PNIHNSuFZpnhey1
## 6      Matt      Hinton      Matt Hinton      matt.hinton@piano.io PNIP7FSyVpoky83
## 7      allegra   anka      allegra anka      allegra.anka@piano.io PNIYDhiQRgayeba
## 8           J      Mathews      J Mathews test-login@assessments.io PNiWGolcnqhazws
## 9      <NA>      <NA>      <NA>      chessmastert@gmail.com PNIMzXlM3qu4y4y
##   image1 create_date reset_password_email_sent custom_fields
## 1      NA      1544212892          FALSE      NULL
## 2      NA      1544212919          FALSE      NULL
## 3      NA      1551098072           TRUE      NULL
## 4      NA      1551098078           TRUE      NULL
## 5      NA      1551098089           TRUE      NULL
## 6      NA      1552942659           TRUE      NULL
## 7      NA      1590521591          FALSE      NULL
## 8      NA      1601187149           TRUE      NULL
## 9      NA      1622739923           TRUE      NULL
```

```
#Convert both lists to dataframes
outdata <- data.frame(merged)
apidata <- data.frame(data)

#Convert factor dataframe to character
outdata <- data.frame(lapply(outdata, as.character), stringsAsFactors=FALSE)

#Update userid in output file
outdata$user_id[3]<-apidata$users.uid[3]
outdata$user_id[4]<-apidata$users.uid[4]
outdata$user_id[5]<-apidata$users.uid[5]
outdata
```

user_id<chr>	email<chr>	first_name<chr>	last_name<chr>
4dBdXURAz3	user_6@example.com	Jacques	Cuellar
fBYRtPtAIC	user_7@example.com	John	Smith
PNISGXVjCpnhexk	user_0@example.com	Yadira	Irving
PNIABp6mSpnhexq	user_9@example.com	Qiana	Walk
PNIHNSuFZpnhey1	user_5@example.com	Vella	Lynam
gXWj37JC5d	user_8@example.com	Shaun	Kreiger
oh4mHXh8zN	user_3@example.com	Julie	Mosser
oi6lhEzu9R	user_2@example.com	Leatrice	Oquinn
uxz2jFwr5l	user_1@example.com	Benito	Festa
zSbmdNiSHH	user_4@example.com	Taryn	Jaycox

1-10 of 10 rows

```
#Export output file
write.csv(outdata,"/Users/shahrarnizam/Documents/Piano/FileCR.csv" , all(T) )
```

```
## Warning in write.table(outdata, "/Users/shahrarnizam/Documents/Piano/
## FileCR.csv", : appending column names to file
```