PSQL connection Test

```r
install.packages("RPostgres")
```

```
Installing package into '/usr/local/lib/R/site-library'
(as 'lib' is unspecified)
```

Load Libraries

```r
library(DBI)
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
```

```r
library(dbplyr)
```

```
Attaching package: 'dbplyr'

The following objects are masked from 'package:dplyr':

    ident, sql
```

```r
setwd("/home/rstudio/r_course_hun/src/db_tutorials")
credentials_filename <- "psql_credential.txt"
```

This needs to be run just one to create the file. After the file is create you need to paste the values

```r
if(isFALSE(file.exists(credentials_filename))){
file_lines <- "dbname,
host,
port,
user,
password,"

fileConn <- file(credentials_filename)
writeLines(file_lines, fileConn)
close(fileConn)
}
```

This reads the file

```r
myData <- readr::read_lines(credentials_filename)
rowNames <- c()
values <- c()
for (i in 1:length(myData)) {
 columna <- strsplit(myData[i], ",")[[1]][1]
 valor <- strsplit(myData[i], ",")[[1]][2]
 rowNames[i] <- columna
 values[i] <- valor
}
credentials <- data.frame(row.names=rowNames , val=values)
```

This test the connection

```r
con <- dbConnect(RPostgres::Postgres(),
                 dbname = credentials['dbname',],
                 host = credentials['host',],
                 port = as.integer(credentials['port',]),
                 user = credentials['user',],
                 password = credentials['password',])

dbListTables(con)
```

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```
character(0)
```

```r
dfPerson <- dbGetQuery(con, "SELECT * FROM mimiciii.patients LIMIT 10" )

patients <- tbl(con, in_schema("mimiciii", "patients"))

patients %>% head()
```

```
# Source:     SQL [6 x 9]
# Database: postgres  [postgres@mimic-server.postgres.database.azure.com:5432/mimic]
  row_id subject_id gender dob                 dod
   <int>      <int> <chr>  <dttm>              <dttm>
1    234        249 F      2075-03-13 00:00:00 NA
2    235        250 F      2164-12-27 00:00:00 2188-11-22 00:00:00
3    236        251 M      2090-03-15 00:00:00 NA
4    237        252 M      2078-03-06 00:00:00 NA
5    238        253 F      2089-11-26 00:00:00 NA
6    239        255 M      2109-08-05 00:00:00 NA
# ... with 4 more variables: dod_hosp <dttm>, dod_ssn <dttm>,
#   expire_flag <int>, mimic_id <int>
```