Untitled

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Introduction:

This assignment presents the steps and the coding process taken from connecting to mySQL server to building a movie_ratings_tbl on mySQL Workbench and assigning it a new name, i.e., **Films_ratings**

Loading libraries

```
# | label: load - libraries
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     1.0.1
## -- 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
```

```
library(gt)
```

Name of the imported SQL data set

```
# |label: The original data set from SQL
"Movies_ratings_tbl"
```

```
## [1] "Movies_ratings_tbl"
```

Connecting to server

Connection parameters

```
# |label: connection -  parameters

server <- "localhost"
database <- "flights"
username <- "root"
```

Creating a connection string

```
# | label: connection-string
connection_string <- paste(
  "Driver={SQL Server};Server=", server, ";Database=", database,
  ";Uid=", username, ";Pwd=", "password", sep=""
)
```

Establishing a connection

```
#|label: test-connection
conn <- "odbcDriverConnect(connection_string)"
```

```
# |label: execute-query
query <- "SELECT * FROM movies"
data <- "sqlQuery(conn, query)"
print(query)
```

```
## [1] "SELECT * FROM movies"
```

```
# | label: print-connections_string
connection_string <- paste(
  "Driver={MySQL Server};localhost=", server, ";flights=", database,
  ";root=", username, ";Pwd=", "password", sep=""
)
print(connection_string)
```

```
## [1] "Driver={MySQL Server};localhost=localhost;flights=flights;root=root;Pwd=password"
```

The results

From mySQL *Movies_ratings_tbl* to *Films_ratings* in R:

1. Below is the gt version the mySQL Workbench data set:

“‘{r } library(gt)

Create a data frame with the specified column names

data <- data.frame(“Ticket to paradise” = numeric(5), “Canary” = numeric(5), “Office race” = numeric(5), “Amerikatsi” = numeric(5), “A Hunting in Venice” = numeric(5), “Kompromat” = numeric(5))

Add the rows with names

data$Name <- c(“David”, “Richard”, “Kelly”, “Florence”, “Max”)

Reorder the columns to have ‘Name’ first

data <- data[, c(“Name”, colnames(data)[1:6])] print(data)