

# Sample on Movie Ratings

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2023-02-02

## Introduction

I will be collecting movie ratings through an online survey on a scale of 1 to 5.

The overall steps of this project is to do the following:

1. Collect survey data
  2. Create a database to store this information
  3. Able to query the data into R
  4. Analyze some descriptive measures.
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## Collecting Survey Data

The survey was conducted using a Google Forms and named *Spoiled Corn*. This survey will collect ratings of six recent popular movies on a scale of 1 to 5, 1 being the lowest. If a person did not watch this movie, it will be categorized with an option of N/A.

[Online Survey](#)

## Building our Database

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## Connecting to our Database

### Required Libraries

```
library('RPostgres')
library('DBI')
library('tidyverse')
```

## PostgreSQL Database

Using this connection we will be able to keep our username and password from being embedded into our code and instead have RStudio pop up a dialog box to input the information.

```
cnxn <- dbConnect(RPostgres::Postgres(),
  dbname = 'movie_survey',
  port = 5432,
  user = 'postgres',
  password = 'elliebelly968')
# user = rstudioapi::askForPassword("Database Username"),
# password = rstudioapi::askForPassword("Database Password"))
```

## Query the Database

Here we are able to directly query our PostgreSQL database and pull the information from the tables we created earlier. `dbFetch()` will allow us to move the results of the query into a readable DataFrame.

```
query <- dbSendQuery(cnxn,
  "SELECT
    r.datetimeid,
    r.user_id,
    f.name,
    r.rating,
    f.release_year
  FROM ratings r
  INNER JOIN films f
    ON r.movie_id = f.movie_id ")

df <- dbFetch(query)
```

## Close Connection

Since we have gathered the data we needed from the database, we will close the connection to PostgreSQL.

```
# Disconnect from database
dbDisconnect(cnxn)
```

```
## Warning in connection_release(conn@ptr): There is a result object still in use.
## The connection will be automatically released when it is closed
```