DBeaver Assignment

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DBeaver

```
library(DBI)
library(duckdb)

# Establish a DB connection
con <- dbConnect(duckdb(), "flights.duckdb", read_only = TRUE)

# print(con)
# dbIsValid(con)</pre>
dbListTables(con)
```

[1] "airlines" "airports" "flights" "planes" "weather"

Question 1.

```
# Query to get the top few rows from the weather table
query <- "SELECT * FROM weather LIMIT 5;"

# Execute query and fetch results
weather_data <- dbGetQuery(con, query)

# Display results
# print(weather_data)</pre>
```

```
# Query to compute mean temperature for each airport using the weather table
query <- "
SELECT origin, AVG(temp) AS mean_temperature
FROM weather
GROUP BY origin;
"
# Execute query and fetch results
mean_temperature <- dbGetQuery(con, query)

# Display results
print(mean_temperature)</pre>
```

```
origin mean_temperature
1 JFK 54.47215
2 LGA 55.76261
3 EWR 55.54655
```

Question 2.

```
# Query to get the top few rows from the weather table
query <- "SELECT * FROM flights LIMIT 5;"

# Execute query and fetch results
weather_data <- dbGetQuery(con, query)</pre>
```

```
# Display results
# print(weather_data)
```

Question 3.

```
origin dest flight_count

1 JFK LAX 11262

2 EWR ORD 6100

3 LGA ATL 10263
```

```
# Disconnect from database
dbDisconnect(con, shutdown = TRUE)
```