

## **Data Science Seminar Project:**

### **The Majestic Roadrunners**

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**Theme: Who shot first?** - *closer look at police officers who have fired their weapon on duty*

### **How to Run the Queries:**

#### **Method 1: Use PSQL**

From within the /src directory you can use PSQL in order to interface with the remote AWS database using the following command.

```
psql -f <QUESTION_FILENAME>.sql -h cpdb.cgod7egsd6vr.us-east-2.rds.amazonaws.com -U  
cpdb-student -d cpdb -p 5432
```

and replacing <QUESTION\_FILENAME> with the appropriate query file name. For example, running the query for Question 1 would be as follows:

```
psql -f Q1.sql -h cpdb.cgod7egsd6vr.us-east-2.rds.amazonaws.com -U cpdb-student -d cpdb -p  
5432
```

When prompted for a password, simply enter the password found within the setup instructions for Checkpoint 1 on Canvas (this is omitted here for security reasons).

#### **Method 2: DataGrip**

In order to run these queries with DataGrip, you'll first need to make sure you have an active connection to the cpdb database. With that in place, simply open the .sql files in the /src directory and hit run. Alternatively, you can copy and paste the queries from the file into the DataGrip console and run them there.

### **Checkpoint1: Relational Analytics**

#### **Questions:**

1. What were the top 10 types of force (Physical force, verbal command, etc) exhibited by the officer that ended up in use of the firearm?

2. What is the proportion of subjects injured to that of officers injured in the use of firearms?
3. Based on Demographics (Age, Gender and Race), which group of subjects are most likely to be involved in firearms?
  - a) Age group
  - b) Gender
  - c) Race
4. What proportion of the subjects carried weapons in the events that involved the use of firearms?