**-- Project 3 SQL Queries**

**-- CS-486**

**--**

**-- Justin Greever**

**-- Alissa Friel**

**-- Christopher Lu**

**-- Samuel Khodakovskiy**

**-- Vinh Duong**

**--**

**-- All query results are stored in files that are named the same as the question**

**-- they are answering.**

**--**

**-- Example:**

**-- > Question: our question**

**-- > <SQL QUERY>**

**-- > Results stored in: our\_question.txt**

**-- What is the greatest number of shootings in any month?**

**-- Results: What\_is\_the\_greatest\_number\_of\_shootings\_in\_any\_month.txt**

**--**

**SELECT COUNT("Occurrence Date") AS "Shootings",**

**TO\_CHAR("Occurrence Date", 'YYYY-MM') AS "Month",**

**TO\_CHAR("Occurrence Date", 'Mon') AS "Month Name"**

**FROM p\_shootings**

**GROUP BY TO\_CHAR("Occurrence Date", 'YYYY-MM'),**

**TO\_CHAR("Occurrence Date", 'Mon')**

**ORDER BY "Shootings" DESC**

**LIMIT 1;**

**-- What is the least committed crime?**

**-- Results: What\_is\_the\_least\_committed\_crime.txt**

**--**

**SELECT "Offense Category" AS "Crime", COUNT("Offense Category") AS "Count"**

**FROM p\_crime\_data**

**GROUP BY "Crime"**

**ORDER BY "Count"**

**LIMIT 1;**

**-- Show the average tenure of officers that have used force.**

**-- Results: Show\_the\_average\_tenure\_of\_officers\_that\_have\_used\_force.txt**

**--**

**SELECT AVG("Officer Tenure") AS "Average Tenure"**

**FROM p\_use\_of\_force;**

**-- What are the shootings with the fewest number of casings recovered?**

**-- Results: What\_are\_the\_shootings\_with\_the\_fewest\_number\_of\_casings\_recovered.txt**

**--**

**SELECT "Occurrence Date", "Precinct", "CasingsRecovered"**

**FROM p\_shootings**

**ORDER BY "CasingsRecovered" ASC;**

**-- Are there any use of force incidents where the suspect did not resist?**

**-- Are\_there\_any\_use\_of\_force\_incidents\_where\_the\_suspect\_did\_not\_resist.txt**

**--**

**SELECT COUNT(\*) AS "Number of uses of force where subject's resistance is passive"**

**FROM p\_use\_of\_force**

**WHERE "Subject Resistance - 1" = 'Passive';**

**-- What is the range of the number of uses of force for all officers?**

**-- Results: What\_is\_the\_range\_of\_the\_number\_of\_uses\_of\_force\_for\_all\_officers.txt**

**--**

**SELECT top."Officer", top.count AS "Greatest number of force usage",**

**bottom."Officer", bottom.count AS "Smallest number of force usage"**

**FROM**

**(SELECT "Officer", COUNT(\*)**

**FROM p\_use\_of\_force**

**GROUP BY "Officer"**

**ORDER BY COUNT(\*)::int DESC**

**LIMIT 1) AS top,**

**(SELECT "Officer", COUNT(\*)**

**FROM p\_use\_of\_force**

**GROUP BY "Officer"**

**ORDER BY COUNT(\*)::int**

**LIMIT 1) AS bottom;**

**-- What race was each officer and subject in each incident?**

**-- Results: What\_race\_was\_each\_officer\_and\_subject\_in\_each\_incident.txt**

**--**

**SELECT "Date Occurred", "Officer Race", "Subject Race"**

**FROM p\_officer\_involved\_shootings;**

**-- What is the safest neighborhood, according to the number of incidents?**

**-- Results: What\_is\_the\_safest\_neighborhood\_according\_to\_the\_number\_of\_incidents.txt**

**--**

**Select COUNT("Case Number"), "Neighborhood"**

**FROM p\_crime\_data**

**GROUP BY "Neighborhood"**

**ORDER BY COUNT("Case Number") ASC**

**LIMIT 1;**

**-- What is the time of month with the most criminal activity?**

**-- Results: What\_is\_the\_time\_of\_month\_with\_the\_most\_criminal\_activity.txt**

**--**

**SELECT COUNT(\*) AS "Number of criminal occurrences", "Occur Date" AS "Year, time of month"**

**FROM p\_crime\_data**

**GROUP BY "Occur Date"**

**ORDER BY "Number of criminal occurrences" DESC**

**LIMIT 1;**

**-- Time of day with the most criminal activity?**

**-- Results: Time\_of\_day\_with\_the\_most\_criminal\_activity.txt**

**--**

**Select COUNT("Case Number"), "Occur Time"**

**FROM p\_crime\_data**

**GROUP BY "Occur Time"**

**ORDER BY COUNT("Case Number") DESC**

**LIMIT 1;**

**-- Show all crimes involving weapons. (originally Show all crimes involving firearms. It was changed due to firearms not being listed as an offense type, only things such as Arson, Battery, etc.)**

**-- Results: Show\_all\_crimes\_involving\_weapons.txt**

**--**

**SELECT "Offense Category", "Offense Type", COUNT(\*)**

**FROM p\_crime\_data**

**WHERE "Offense Category" = 'Weapon Law Violations'**

**GROUP BY "Offense Category", "Offense Type"**

**ORDER BY "Offense Category", "Offense Type";**

**-- What district has the most fatalities? (originally What neighborhood has the most police brutality? It was changed to district since neighborhood couldn’t be linked to the death lists properly)**

**-- Results: What\_district\_has\_the\_most\_fatalities.txt**

**--**

**SELECT p\_officer\_involved\_shootings."General Location",**

**COUNT(p\_officer\_involved\_shootings."Was Subject Injury Fatal") AS "Number of Fatalities"**

**FROM p\_officer\_involved\_shootings**

**GROUP BY "Date Occurred", "Was Subject Injury Fatal", "General Location"**

**ORDER BY "Number of Fatalities" DESC**

**LIMIT 1;**

**-- List all officer on-the-job injuries.**

**-- Results: List\_all\_officer\_on-the-job\_injuries.txt**

**--**

**SELECT**

**(SELECT SUM("Number of Officers Injured on Case")**

**FROM p\_officer\_involved\_shootings) +**

**(SELECT COUNT("Officer Fatally Injured")**

**FROM p\_officer\_involved\_shootings) AS SumCount;**

**-- Show all crimes by race.**

**-- Results: Show\_all\_crimes\_by\_race.txt**

**--**

**SELECT p\_use\_of\_force."Subject - Race", COUNT(p\_use\_of\_force."Subject - Race")**

**FROM p\_use\_of\_force**

**GROUP BY p\_use\_of\_force."Subject - Race"**

**ORDER BY COUNT(p\_use\_of\_force."Subject - Race") DESC;**

**-- Highest committed crime by race**

**-- Results: Highest\_committed\_crime\_by\_race.txt**

**--**

**SELECT DISTINCT on ("Suspect Race") "Suspect Race", "Most Common Crime Type"**

**FROM**

**(SELECT "Primary Offense Type" AS "Most Common Crime Type", "Suspect Race", COUNT(\*) AS count**

**FROM p\_bias\_crime**

**GROUP BY "Primary Offense Type", "Suspect Race"**

**ORDER BY "Suspect Race", count DESC) AS top\_crimes;**

**-- Get the number of crimes committed by each gender.**

**-- Results: Get\_the\_number\_of\_crimes\_committed\_by\_each\_gender.txt**

**--**

**SELECT COUNT (\*) AS "Number of crimes committed", "Suspect Gender"**

**FROM p\_bias\_crime**

**GROUP BY "Suspect Gender";**

**-- Show crimes committed by each age group.**

**-- Results: Show\_crimes\_committed\_by\_each\_age\_group.txt**

**--**

**SELECT "Suspect Age", COUNT (\*) AS "Number of crimes committed"**

**FROM p\_bias\_crime**

**GROUP BY "Suspect Age"**

**ORDER BY "Suspect Age" DESC;**

**-- Show all civilian deaths related to police activities. (originally Show all deaths related to police activities. Changed wording to state civilian specifically)**

**-- Results: Show\_all\_civilian\_deaths\_related\_to\_police\_activities.txt**

**--**

**SELECT COUNT("RecordID")**

**FROM p\_officer\_involved\_shootings**

**WHERE "Was Subject Injury Fatal";**

**-- What are the top 10 precincts with the highest uses of force? (originally How many tenured officers used force in police incidents? Changed it to top 10 precincts since all officers in the DB have tenure, it seems it is used to describe years on the job)**

**-- Results: What\_are\_the\_top\_10\_precincts\_with\_the\_highest\_uses\_of\_force.txt**

**--**

**SELECT "Officer Precinct", COUNT(\*) AS "Number of Force Use"**

**FROM p\_use\_of\_force**

**GROUP BY "Officer Precinct"**

**ORDER BY "Number of Force Use" DESC**

**LIMIT 10;**

**-- Tenured officers who only used force once? (originally Tenured officers did not use force in police incidents? Changed it to using force only once since the DB only listed cases where force was used, so there wouldn’t be any results looking for no use of force.)**

**-- Results: Tenured\_officers\_who\_only\_used\_force\_once.txt**

**--**

**SELECT "Officer", COUNT(\*)**

**FROM p\_use\_of\_force**

**WHERE "Force Applied - 1" IS NOT NULL**

**AND "Officer" IS NOT NULL**

**GROUP BY "Officer"**

**HAVING COUNT(\*) < 2**

**ORDER BY COUNT(\*) DESC;**

**-- How many suspect fatalities involved officer injuries?**

**-- Results: How\_many\_suspect\_fatalities\_involved\_officer\_injuries.txt**

**--**

**SELECT total\_fatalities.count AS "Total subject fatalities in officer-involved-shootings", fatalities\_with\_injury.count AS "Fatalities that involved officer injuries"**

**FROM**

**(SELECT COUNT(\*) AS count FROM p\_officer\_involved\_shootings**

**WHERE "Was Subject Injury Fatal" = true**

**AND "Any Officers Injured on Case" = true) AS fatalities\_with\_injury,**

**(SELECT COUNT(\*) AS count**

**FROM p\_officer\_involved\_shootings**

**WHERE "Was Subject Injury Fatal" = true) AS total\_fatalities;**

**-- How many calls were made related to disorders?**

**-- Results: How\_many\_calls\_were\_made\_related\_to\_disorders.txt**

**--**

**SELECT COUNT("Final Call Category") AS mental\_disorder\_related\_calls**

**FROM p\_dispatched\_calls**

**WHERE "Final Call Category" = 'Disorder';**

**--! END FILE !--**