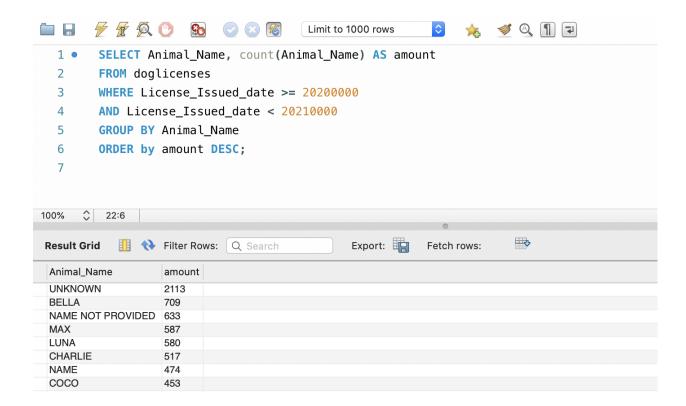
1. Create a new primary key column for the dog's table. Show the SQL to implement.

ALTER TABLE doglicenses ADD COLUMN Id INT PRIMARY KEY;

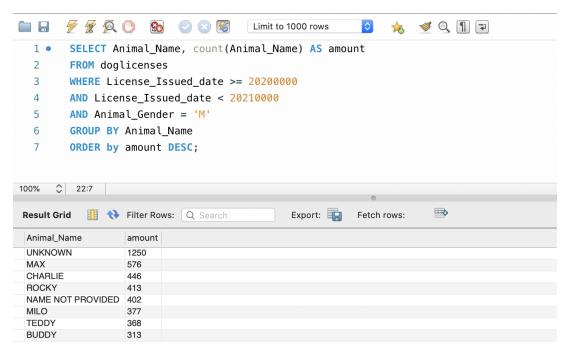
2. Populate the primary key with unique values. Show the SQL to implement.

ALTER TABLE doglicenses MODIFY COLUMN Id INT AUTO_INCREMENT;

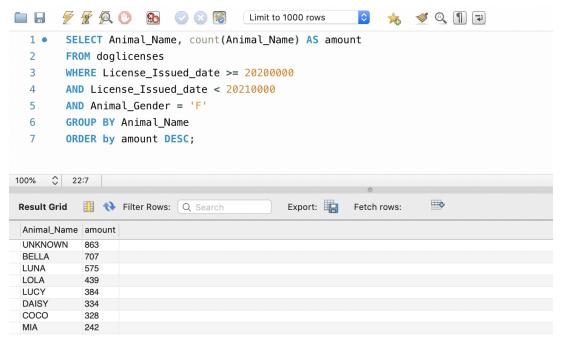
3. Identify the most popular dog names for licenses issued in 2020. Display the animal's name and number of licenses. Display the most popular dog name first.



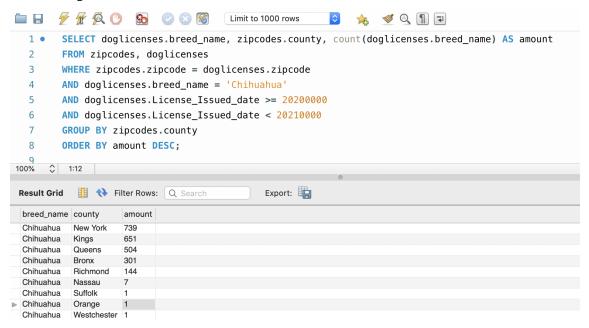
4. Identify the most popular male dog names for licenses issued in 2020. Display the animal's name and number of licenses. Display the most popular male dog name first.



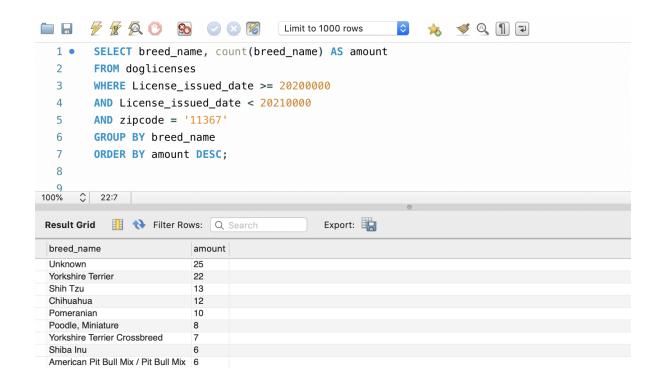
5. Identify the most popular female dog names for licenses issued in 2020. Display the animal's name and number of licenses. Display the most popular female dog name first.



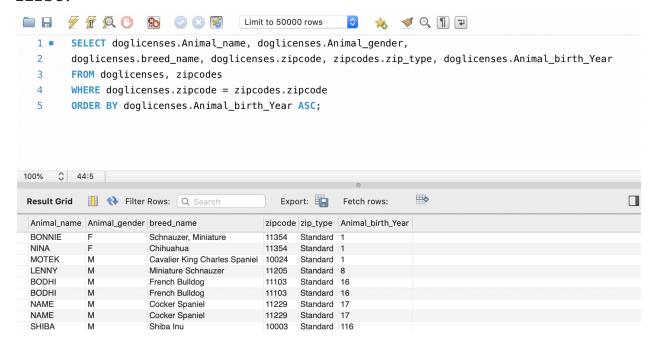
6. Identify the number of Chihuahua by county/borough for licenses issued in 2020. Display the breed, county/borough and number of dogs.



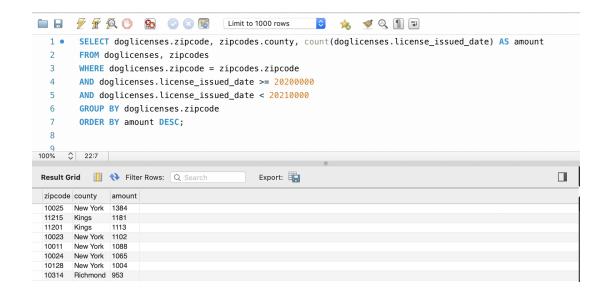
7. Identify the most popular breeds near Queens College for licenses issued in 2020. Display the breed and number of dogs. Display the most popular breed first.

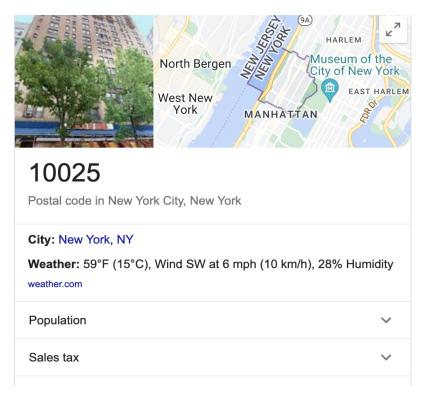


8. Identify the oldest dogs. Display the animal's name, gender, breed, zipcode, and county/borough. Display the oldest dog first.

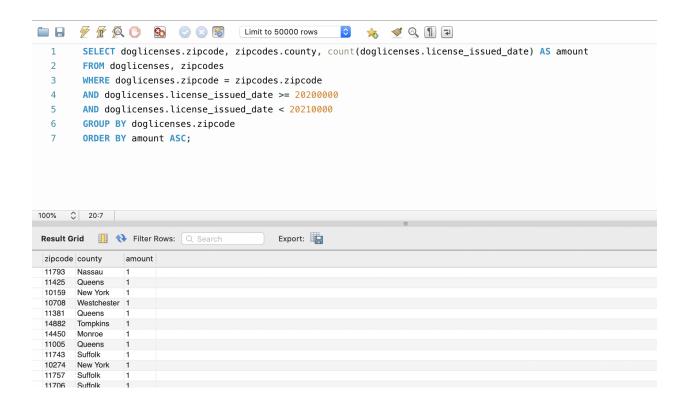


9. Identify the zipcodes with the fewest dog licenses issued in 2020. Display the zipcode, county/borough and number of dogs. Display the most popular zipcode first. Where is this zipcode? Include a picture from Google Maps. [Most popular zip codes]





[Fewest licenses per zip code in 2020] !



10. Perform an analysis of your own choosing.

My analysis from looking at the data was that New York county (Manhattan) registered a lot of dogs in 2020. That county took up most of the top zip codes that licensed dogs in 2020. Based on how many dogs they licensed, I'm assuming that they might have the most dogs licensed in all the years from 2014-2022. Not just in 2020.

11.Display the structure of ALL tables using SQL Describe.

DESC doglicenses;

id	int	NO	PRI	NULL	auto_increment
Animal_Name	varchar(30)	YES		NULL	
Animal_Gender	varchar(4)	YES		NULL	
Animal_Birth_Year	char(4)	YES		NULL	
Breed_Name	varchar(36)	YES		NULL	
ZipCode	varchar(5)	YES	MUL	NULL	
License_Issued_Date	date	YES		NULL	
License_Expired_Date	date	YES		NULL	

DESC zipcodes;

id	int	NO	PRI	NULL	auto_increment
ZipCode	varchar(5)	YES	MUL	NULL	
city	varchar(22)	YES		NULL	
county	varchar(14)	YES		NULL	
Zip_Type	varchar(8)	YES		NULL	

12.Display the version of Oracle.

I am using version 8.0.28 of mySQL WorkBench