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Module 3 Assignment

Highest Accident Rates in NYC

List of data from Table boroughdat375


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In the data set, there are data for every report of the traffic accident in different boroughs. The table contains column ID, date of the crash, what borough in New York City, the description of violation, and the violation code. The goal of the report is to obtain the top 3 boroughs in New York City with the highest accident rates to help a company calculate the insurance rate to charge customers living in those areas. The data needed for this analysis are the name of the borough and the number of times a report is recorded from this borough. During my analysis, there are 5 boroughs in the data set: Staten Island, Bronx, Manhattan, Queens, and Brooklyn (screenshot shown below).

A picture containing text, screenshot, monitor

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List of all boroughs in NYC with the number of occurrences.

Text

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* Table: boroughdat375
* 5 column headers listed on the left side
* Data types listed on the right side

I will be using column NYCBOROUGH to find the number of times a borough showed up in the data set to calculate the total number of accidents in the said borough by using “COUNT” function. The “COUNT” function will give me the total number of rows the value appeared in. I will name the total number as “Accidents” since it will be the total number of accidents that occurred in the borough. After that, I will group each by the name of the value (borough) and order it in descending order. Then limiting to 3 so we can see the top 3 boroughs with the highest occurrences.

As mentioned in the first paragraph, there are 5 boroughs in this data set. We are focusing on the top 3 boroughs with the highest occurrences for this analysis. The borough with the third highest accident rate is Manhattan with 379 occurrences. Second highest is Queens with 670 occurrences. The highest of all is Brooklyn with 670 occurrences. The screenshot of this result is shown below.

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Demonstrating top 3 boroughs with the highest occurrences.

References:

*Calculating Top N Items per Group in SQL*. SILOTA. Retrieved May 21, 2022, from <http://www.silota.com/docs/recipes/sql-top-n-group.html>

Razon, N. (2012, April 17). Count Number of Times Value Appears in Particular Column in MySQL [web log]. Retrieved May 21, 2022, from <https://stackoverflow.com/questions/10199950/count-number-of-times-value-appears-in-particular-column-in-mysql>.