Contents

[Project Details: - 2](#_Toc159355721)

[Major KPI: - 3](#_Toc159355722)

[Applications of the Project: - 3](#_Toc159355723)

Project Details: -   
The project aims to analyze and visualize the distribution and trends of tickets issued throughout 2020. By employing pivot tables and charts, the project provides a clear understanding of the daily issuance of tickets and the breakdown of tickets by provision and infraction. This analysis can help identify patterns, peak periods of ticket issuance, and common infractions, assisting in strategic planning and enforcement improvements.  
  
Pivot Table 1: Daily Tickets Analysis

Objective: To summarize and visualize the total number of tickets issued each day throughout the year.

Data Fields Used:

Row: Infraction Code

Values: Count of total ticket issued

Visualization: Pie Chart.

The pie chart represents the share of tickets issued on a daily basis, making it easier to identify days with unusually high or low ticket volumes. While pie charts are generally more effective for showing a breakdown of a few categories, for daily analysis over a year, a line chart might provide clearer insights over time.  
  
Pivot Table 2: Tickets by Provision and Infraction

Objective: To analyze the distribution of tickets issued, categorized by different provisions and infractions.

Data Fields Used:

Rows: Infraction Description

Columns: Province

Values: Sum of fine amount

Visualization: Column-Line Graph.

This graph combines a column chart, which could represent the count of tickets per provision, with a line graph, possibly overlaying a trend or comparing multiple provisions over time. This dual approach allows for a detailed analysis of the data, highlighting both the distribution of infractions within provisions and the temporal trends or comparisons across different categories.

Major KPI: -1) **Which province has the most fines outside of Ontario (ON)? And how much was it?**From the data in the Excel sheet, it is clear that the province with the most fines outside of Ontario (ON) is Quebec (QC). The total fines in Quebec are $152,830.00.  
  
2) **Which type of infraction has generated the most revenue across all provinces? How much was it?**The type of infraction that has generated the most revenue across all provinces is "PARK ON PRIVATE PROPERTY" The total revenue generated from this infraction is $1944570.00.

3) **Find the top 10 most fined infractions.**Below are the top 10 most fined infractions.

|  |
| --- |
| PARK ON PRIVATE PROPERTY |
| PARK-SIGNED HWY-PROHIBIT DY/TM |
| STOP-SIGNED HIGHWAY-RUSH HOUR |
| STOP-SIGNED HWY-PROHIBIT TM/DY |
| PARK MACHINE-REQD FEE NOT PAID |
| PARK PROHIBITED TIME NO PERMIT |
| STAND VEH.-PROHIBIT TIME/DAY |
| PARK IN A FIRE ROUTE |
| PARK-VEH. W/O VALID ONT PLATE |
| STND ONSTRT ACCESSIBLE NO PRMT |

**4) What is the third most fined type of infraction? How much was it?**

From the data, the third most fined type of infraction is “STOP-SIGNED HIGHWAY-RUSH HOUR”. It was $1,271,400.00.

# Applications of the Project: -

The insights gained from this project could be used by law enforcement agencies, city planners, and policy makers to:

* Understand enforcement activities' effectiveness.
* Allocate resources more efficiently.
* Plan educational campaigns around common infractions.
* Evaluate the need for changes in regulations or enforcement practices.