**R SCRIPT OUTPUTS**

**Research Question 1 - Are particular characteristics of a car (such as color) prone to higher incidents of traffic violations?**

Table 1: Summary of the variable Color

|  |  |
| --- | --- |
| **Car Color** | **Number of Violations** |
| Dark Blue | 13552 |
| Light Blue | 9019 |
| Dark Green | 7897 |
| Light Green | 4001 |
| Beige | 8269 |
| Black | 127582 |
| Blue | 48356 |
| Bronze | 1602 |
| Brown | 3179 |
| Camouflage | 15 |
| Chrome | 17 |
| Copper | 230 |
| Cream | 482 |
| Gold | 21415 |
| Gray | 68744 |
| Green | 26911 |
| Maroon | 11640 |
| Multicolor | 542 |
| N/A | 8052 |
| Orange | 2239 |
| Pink | 108 |
| Purple | 1363 |
| Red | 51939 |
| Silver | 118571 |
| Tan | 14930 |
| White | 95783 |
| Yellow | 2470 |

Table 2: Maximum and Minimum violations by car color

|  |  |
| --- | --- |
| **Maximum number of violations** | **Minimum number of violations** |
| Black | Camouflage |

**Research Question 2a - Is there an effect of the time of day (i.e. rush hours) on the number of traffic violations caused?**

Table 3: Summary of the variable Rush Hour

|  |  |  |
| --- | --- | --- |
| **Non Rush Hour** | **Rush Hour – AM** | **Rush Hour – PM** |
| 504715 | 69167 | 75026 |

Table 4: Summary of the variable Rush Hour for the year 2013

|  |  |  |
| --- | --- | --- |
| **Non Rush Hour** | **Rush Hour – AM** | **Rush Hour – PM** |
| 147227 | 21724 | 21414 |

Table 5: Summary of the variable Rush Hour for the year 2014

|  |  |  |
| --- | --- | --- |
| **Non Rush Hour** | **Rush Hour – AM** | **Rush Hour – PM** |
| 173140 | 24235 | 26066 |

Table 6: Summary of the variable Rush Hour for the year 2015

|  |  |  |
| --- | --- | --- |
| **Non Rush Hour** | **Rush Hour – AM** | **Rush Hour – PM** |
| 184348 | 23208 | 27546 |

**Research Question 2b - Is there an effect of the season on the number of traffic violations caused?**

Table 6: Summary of the variable Season

|  |  |  |  |
| --- | --- | --- | --- |
| **Autumn** | **Spring** | **Summer** | **Winter** |
| 169649 | 175649 | 160820 | 142790 |

Table 7: Summary of the variable Season for the year 2013

|  |  |  |  |
| --- | --- | --- | --- |
| **Autumn** | **Spring** | **Summer** | **Winter** |
| 52571 | 49120 | 46120 | 42554 |

Table 8: Summary of the variable Season for the year 2014

|  |  |  |  |
| --- | --- | --- | --- |
| **Autumn** | **Spring** | **Summer** | **Winter** |
| 57307 | 63506 | 54882 | 47746 |

Table 9: Summary of the variable Season for the year 2015

|  |  |  |  |
| --- | --- | --- | --- |
| **Autumn** | **Spring** | **Summer** | **Winter** |
| 59771 | 63023 | 59818 | 52490 |

**Research Question 3 - Does belonging to a particular race increase the probability of being issued a particular violation type?**

Table 10: Summary of the variable Race

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Asian** | **Black** | **Hispanic** | **Native American** | **Other** | **White** |
| 38425 | 200207 | 132599 | 1917 | 32945 | 242815 |

Word Count: 360