|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Descriptive Statistics** |  |  |  |  |  |
|  | N | Minimum | Maximum | Mean | Std. Deviation |
| What is the walking time (minutes) from your home to nearest slow charging? | 5898 | 0 | 20 | 5.94 | 6.603 |
| What is the walking time (minutes) from your work to nearest slow charging? | 5898 | 0 | 20 | 5.90 | 6.575 |
| How many cars do you own? | 5898 | 1 | 4 | 1.58 | .720 |
| How many electric cars do you own? | 5898 | 0 | 4 | .08 | .297 |
| How far do you typically drive the car (miles) on a daily basis? | 5898 | 0 | 100 | 24.75 | 20.348 |
| How many long distance trips (i.e. trips more than 50 miles from your home) did you make by driving the car last month? | 5898 | 0 | 4 | 1.49 | 1.317 |
| Valid N (listwise) | 5898 |  |  |  |  |

**Frequencies**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 02-MAY-2023 02:15:41 |
| Comments | |  |
| Input | Data | C:\Users\wf3767\Downloads\spss\_eda.sav |
|  | Active Dataset | DataSet1 |
|  | Filter | <none> |
|  | Weight | <none> |
|  | Split File | <none> |
|  | N of Rows in Working Data File | 5898 |
| Missing Value Handling | Definition of Missing | User-defined missing values are treated as missing. |
|  | Cases Used | Statistics are based on all cases with valid data. |
| Syntax | | FREQUENCIES VARIABLES=town highway range bichoice gender Region education employment hsincome hsize  housit residence home\_parking home\_evse work\_parking work\_evse buycar age RUCA  /ORDER=ANALYSIS. |
| Resources | Processor Time | 00:00:00.05 |
|  | Elapsed Time | 00:00:00.98 |

[DataSet1] C:\Users\wf3767\Downloads\spss\_eda.sav

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Statistics** | | | | | | |
|  | | What is the driving time from any place in town to a fast charging station (minutes): | What is the average distance (miles) between two fast charging stations on highway? | What driving range of EV would you require : 4 categories - 1- 100 miles, 2 - 200 miles, 3 - 300 miles, 4 - 400 miles | Buying Intention: 2 categories - 0 - Will not buy an EV or 1 - Will buy an EV | Gender of the responent: 1-Male or 0- Female |
| N | Valid | 5898 | 5898 | 5898 | 5898 | 5898 |
|  | Missing | 0 | 0 | 0 | 0 | 0 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Statistics** | | | | | | |
|  | | State belongs to different Regions- | Highest educational qualification of the respondent: 8 categories | Employment status of the respondent | Annual Household Income: 9 categories | Household members: How many people currently live in your household?: 5 categories: 1-1 person, 2-2 persons, 3- 3 persons, 4- 4 persons, 5- 5 or more persons |
| N | Valid | 5898 | 5898 | 5898 | 5898 | 5898 |
|  | Missing | 0 | 0 | 0 | 0 | 0 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Statistics** | | | | | | |
|  | | Housing situation: What is your housing situation?: | Housing Type: In what type of residence do you live?: | What is your parking situation like at home? 6 categories:1- Attached garage; 2-Detached garage;3- Driveway or carport;4- Assigned parking space;5 - On street ;6- Others | Do you have an electrical outlet or EV charging facility at your home parking space?, 3 categories: 1- yes, 2- no, 3- Do not know | What is your parking situation like at work or school? |
| N | Valid | 5898 | 5898 | 5898 | 5898 | 5898 |
|  | Missing | 0 | 0 | 0 | 0 | 0 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Statistics** | | | | | |
|  | | Are EV charging facilities available at your place of work/school? i.e. Could you plug in an EV and charge it while parking at work/school?; 3 categories: 1- Yes, 2- No, 3- Do not know | Do you plan to buy a new car in the next 3 years ? (1-Yes, 2- No, 3-Not sure) | Age of the responent | Zipcode belongs to Metropolitan/rural - 4 categories - 1-Metropolitan area ,2-Micropolitan area,3-Small town,4-Rural areas |
| N | Valid | 5898 | 5898 | 5898 | 5898 |
|  | Missing | 0 | 0 | 0 | 0 |

**Frequency Table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **What is the driving time from any place in town to a fast charging station (minutes):** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 0- 5 mins | 1488 | 25.2 | 25.2 | 25.2 |
|  | 5 - 10 mins | 1450 | 24.6 | 24.6 | 49.8 |
|  | 10 - 15 mins | 1457 | 24.7 | 24.7 | 74.5 |
|  | Not available in town | 1503 | 25.5 | 25.5 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **What is the average distance (miles) between two fast charging stations on highway?** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 0-30 miles | 1456 | 24.7 | 24.7 | 24.7 |
|  | 30-50 miles | 1497 | 25.4 | 25.4 | 50.1 |
|  | 50-70 miles | 1472 | 25.0 | 25.0 | 75.0 |
|  | Not available in town | 1473 | 25.0 | 25.0 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **What driving range of EV would you require : 4 categories - 1- 100 miles, 2 - 200 miles, 3 - 300 miles, 4 - 400 miles** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 100 miles | 1455 | 24.7 | 24.7 | 24.7 |
|  | 200 miles | 1451 | 24.6 | 24.6 | 49.3 |
|  | 300 miles | 1536 | 26.0 | 26.0 | 75.3 |
|  | 400 miles | 1456 | 24.7 | 24.7 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Buying Intention: 2 categories - 0 - Will not buy an EV or 1 - Will buy an EV** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Will not buy an EV | 2654 | 45.0 | 45.0 | 45.0 |
|  | Will buy an EV | 3244 | 55.0 | 55.0 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Gender of the responent: 1-Male or 0- Female** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Female | 2928 | 49.6 | 49.6 | 49.6 |
|  | Male | 2970 | 50.4 | 50.4 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **State belongs to different Regions-** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Northeast | 984 | 16.7 | 16.7 | 16.7 |
|  | Southeast | 1704 | 28.9 | 28.9 | 45.6 |
|  | Midwest | 1314 | 22.3 | 22.3 | 67.9 |
|  | Southwest | 714 | 12.1 | 12.1 | 80.0 |
|  | West | 1182 | 20.0 | 20.0 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Highest educational qualification of the respondent: 8 categories** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Upto high school | 648 | 11.0 | 11.0 | 11.0 |
|  | Some College/Technical school training | 1266 | 21.5 | 21.5 | 32.5 |
|  | Undergraduate | 3168 | 53.7 | 53.7 | 86.2 |
|  | Graduate and above | 816 | 13.8 | 13.8 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Employment status of the respondent** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Employed, working full-time | 4236 | 71.8 | 71.8 | 71.8 |
|  | Employed, working part-time | 762 | 12.9 | 12.9 | 84.7 |
|  | Student | 126 | 2.1 | 2.1 | 86.9 |
|  | Not Employed | 372 | 6.3 | 6.3 | 93.2 |
|  | Retired | 252 | 4.3 | 4.3 | 97.5 |
|  | Other | 150 | 2.5 | 2.5 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Annual Household Income: 9 categories** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Upto $50,000 | 2580 | 43.7 | 43.7 | 43.7 |
|  | $50,000-$100,000 | 2328 | 39.5 | 39.5 | 83.2 |
|  | $100,000-$150,000 | 720 | 12.2 | 12.2 | 95.4 |
|  | $150,000 -$200,000 | 168 | 2.8 | 2.8 | 98.3 |
|  | $200,000 and above | 102 | 1.7 | 1.7 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Household members: How many people currently live in your household?: 5 categories: 1-1 person, 2-2 persons, 3- 3 persons, 4- 4 persons, 5- 5 or more persons** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 1 person | 1344 | 22.8 | 22.8 | 22.8 |
|  | 2 persons | 1686 | 28.6 | 28.6 | 51.4 |
|  | 3 persons | 1086 | 18.4 | 18.4 | 69.8 |
|  | 4 persons | 1122 | 19.0 | 19.0 | 88.8 |
|  | 5 or more persons | 660 | 11.2 | 11.2 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Housing situation: What is your housing situation?:** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Owned | 3462 | 58.7 | 58.7 | 58.7 |
|  | Rented | 2274 | 38.6 | 38.6 | 97.3 |
|  | Provided by employer | 42 | .7 | .7 | 98.0 |
|  | Others | 120 | 2.0 | 2.0 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Housing Type: In what type of residence do you live?:** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Single-family home | 4008 | 68.0 | 68.0 | 68.0 |
|  | Town house | 462 | 7.8 | 7.8 | 75.8 |
|  | Multi-family home | 120 | 2.0 | 2.0 | 77.8 |
|  | Building with 3 or fewer apartments/condos | 120 | 2.0 | 2.0 | 79.9 |
|  | Building with 4 or more apartments/condos | 990 | 16.8 | 16.8 | 96.6 |
|  | Mobile home /trailer | 162 | 2.7 | 2.7 | 99.4 |
|  | Other | 36 | .6 | .6 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **What is your parking situation like at home? 6 categories:1- Attached garage; 2-Detached garage;3- Driveway or carport;4- Assigned parking space;5 - On street ;6- Others** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Attached garage | 1602 | 27.2 | 27.2 | 27.2 |
|  | Detached garage | 306 | 5.2 | 5.2 | 32.3 |
|  | Driveway or carport | 1656 | 28.1 | 28.1 | 60.4 |
|  | Assigned parking space | 666 | 11.3 | 11.3 | 71.7 |
|  | On-street | 252 | 4.3 | 4.3 | 76.0 |
|  | Other | 1416 | 24.0 | 24.0 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Do you have an electrical outlet or EV charging facility at your home parking space?, 3 categories: 1- yes, 2- no, 3- Do not know** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Yes | 1152 | 19.5 | 19.5 | 19.5 |
|  | No | 4566 | 77.4 | 77.4 | 96.9 |
|  | Do not know | 180 | 3.1 | 3.1 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **What is your parking situation like at work or school?** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Designated parking space | 780 | 13.2 | 13.2 | 13.2 |
|  | Job-provided parking lot with unassigned spaces (free or paid) | 3360 | 57.0 | 57.0 | 70.2 |
|  | Paid parking in a commercial lot or garage | 246 | 4.2 | 4.2 | 74.4 |
|  | On-street | 228 | 3.9 | 3.9 | 78.2 |
|  | I don't drive to work | 1200 | 20.3 | 20.3 | 98.6 |
|  | Other | 84 | 1.4 | 1.4 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Are EV charging facilities available at your place of work/school? i.e. Could you plug in an EV and charge it while parking at work/school?; 3 categories: 1- Yes, 2- No, 3- Do not know** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Yes | 1206 | 20.4 | 20.4 | 20.4 |
|  | No | 3708 | 62.9 | 62.9 | 83.3 |
|  | Do not know | 984 | 16.7 | 16.7 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Do you plan to buy a new car in the next 3 years ? (1-Yes, 2- No, 3-Not sure)** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Yes | 2958 | 50.2 | 50.2 | 50.2 |
|  | No | 1296 | 22.0 | 22.0 | 72.1 |
|  | Not sure | 1644 | 27.9 | 27.9 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Age of the responent** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 19 to 33 | 2064 | 35.0 | 35.0 | 35.0 |
|  | 34 to 48 | 2382 | 40.4 | 40.4 | 75.4 |
|  | 49 to 63 | 1140 | 19.3 | 19.3 | 94.7 |
|  | 64 and above | 312 | 5.3 | 5.3 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Zipcode belongs to Metropolitan/rural - 4 categories - 1-Metropolitan area ,2-Micropolitan area,3-Small town,4-Rural areas** | | | | | |
|  | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Metropolitan Area | 5064 | 85.9 | 85.9 | 85.9 |
|  | Micropolitan Area | 486 | 8.2 | 8.2 | 94.1 |
|  | Small town | 264 | 4.5 | 4.5 | 98.6 |
|  | Rural Area | 84 | 1.4 | 1.4 | 100.0 |
|  | Total | 5898 | 100.0 | 100.0 |  |

**Descriptives**

|  |  |  |
| --- | --- | --- |
| **Notes** | | |
| Output Created | | 02-MAY-2023 02:17:43 |
| Comments | |  |
| Input | Data | C:\Users\wf3767\Downloads\spss\_eda.sav |
|  | Active Dataset | DataSet1 |
|  | Filter | <none> |
|  | Weight | <none> |
|  | Split File | <none> |
|  | N of Rows in Working Data File | 5898 |
| Missing Value Handling | Definition of Missing | User defined missing values are treated as missing. |
|  | Cases Used | All non-missing data are used. |
| Syntax | | DESCRIPTIVES VARIABLES=home\_chg work\_chg all\_cars ev\_cars dmileage long\_dist  /STATISTICS=MEAN STDDEV MIN MAX. |
| Resources | Processor Time | 00:00:00.02 |
|  | Elapsed Time | 00:00:00.04 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Descriptive Statistics** | | | | | |
|  | N | Minimum | Maximum | Mean | Std. Deviation |
| What is the walking time (minutes) from your home to nearest slow charging? | 5898 | 0 | 20 | 5.94 | 6.603 |
| What is the walking time (minutes) from your work to nearest slow charging? | 5898 | 0 | 20 | 5.90 | 6.575 |
| How many cars do you own? | 5898 | 1 | 4 | 1.58 | .720 |
| How many electric cars do you own? | 5898 | 0 | 4 | .08 | .297 |
| How far do you typically drive the car (miles) on a daily basis? | 5898 | 0 | 100 | 24.75 | 20.348 |
| How many long distance trips (i.e. trips more than 50 miles from your home) did you make by driving the car last month? | 5898 | 0 | 4 | 1.49 | 1.317 |
| Valid N (listwise) | 5898 |  |  |  |  |