*ASSIGNMENT 3: UNIVARIATE ANALYSES OF QUANTITATIVE DATA*

*Overview*

In this assignment, you will be conducting univariate analyses of 10 variables. For each variable, I have provided a frequency distribution. Based on these frequency distributions you need to determine (a) whether the variable is nominal, ordinal, or interval/ratio, (b) explain why it is nominal, ordinal, or interval/ratio, and (c) based on that determination you need to calculate the appropriate measure(s) of central tendency: (1) the mode for nominal variables, (2) the mode AND the median for ordinal level variables, and (3) the mode, median, and the mean for interval/ratio level variables.

*Example Frequency Distribution*

Here is an example frequency distribution so that you know how to interpret them.

|  |  |  |
| --- | --- | --- |
| **Frequency Distribution** | | |
| Cells contain: -N of cases | | **Distribution** |
| **Did you vote**  **in the 2004**  **election?** | VOTED | 898 |
| DID NOT VOTE | 295 |
| INELIGIBLE | 69 |
| ***TOTAL*** | *1,262* |

Variable 1: Race

|  |  |  |
| --- | --- | --- |
| **Frequency Distribution** | | |
| Cells contain: -N of cases | | **Distribution** |
| **RACE** | WHITE | 962 |
| BLACK | 183 |
| OTHER | 131 |
| ***TOTAL*** | *1,276* |

Is this variable nominal, ordinal, or interval/ratio?

Why is this variable nominal, ordinal, or interval/ratio?

Based on whether the variable is nominal, ordinal, or interval/ratio calculate the appropriate measures of central tendency (up to all three – see overview above for a refresher).

Mode:

Median:

Mean:

Variable 2: Years of Education

|  |  |  |
| --- | --- | --- |
| **Frequency Distribution** | | |
| Cells contain: -N of cases | | **Distribution** |
| **Years of Education** | 0 | 3 |
| 2 | 6 |
| 3 | 1 |
| 4 | 1 |
| 5 | 3 |
| 6 | 11 |
| 7 | 7 |
| 8 | 19 |
| 9 | 28 |
| 10 | 32 |
| 11 | 54 |
| 12 | 325 |
| 13 | 126 |
| 14 | 195 |
| 15 | 65 |
| 16 | 204 |
| 17 | 57 |
| 18 | 76 |
| 19 | 24 |
| 20 | 38 |
| ***TOTAL*** | *1,275* |

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Based on whether the variable is nominal, ordinal, or interval/ratio calculate the appropriate measures of central tendency (up to all three – see overview above for a refresher).

Mode:

Median:

Mean:

Variable 3: Years of Education

|  |  |  |
| --- | --- | --- |
| **Frequency Distribution** | | |
| Cells contain: -N of cases | | **Distribution** |
| **Highest Degree Earned** | Less Than HIGH SCHOOL | 145 |
| HIGH SCHOOL | 651 |
| JUNIOR COLLEGE | 110 |
| BACHELOR | 233 |
| GRADUATE | 137 |
| ***TOTAL*** | *1,276* |

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Why is this variable nominal, ordinal, or interval/ratio?

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Mode:

Median:

Mean:

Variable 4: What is your marital status?

|  |  |  |
| --- | --- | --- |
| **Frequency Distribution** | | |
| Cells contain: -N of cases | | **Distribution** |
| **MARITAL**  **Status** | MARRIED | 644 |
| WIDOWED | 87 |
| DIVORCED | 210 |
| SEPARATED | 37 |
| NEVER MARRIED | 298 |
| ***TOTAL*** | *1,276* |

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Why is this variable nominal, ordinal, or interval/ratio?

Based on whether the variable is nominal, ordinal, or interval/ratio calculate the appropriate measures of central tendency (up to all three – see overview above for a refresher).

Mode:

Median:

Mean:

Variable 5: How many children do you have?

|  |  |  |
| --- | --- | --- |
| **Frequency Distribution** | | |
| Cells contain: -N of cases | | **Distribution** |
| **How Many**  **Children**  **Do You Have?** | 0 | 349 |
| 1 | 205 |
| 2 | 337 |
| 3 | 195 |
| 4 | 110 |
| 5 | 34 |
| 6 | 25 |
| 7 | 11 |
| 8 | 8 |
| ***TOTAL*** | *1,274* |

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Why is this variable nominal, ordinal, or interval/ratio?

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Mode:

Median:

Mean:

Variable 6: What are your political views?

|  |  |  |
| --- | --- | --- |
| **Frequency Distribution** | | |
| Cells contain: -N of cases | | **Distribution** |
| **Political Views** | EXTREMELY LIBERAL | 42 |
| LIBERAL | 144 |
| SLIGHTLY LIBERAL | 153 |
| MODERATE | 465 |
| SLGHTLY CONSERVATIVE | 177 |
| CONSERVATIVE | 213 |
| EXTRMLY CONSERVATIVE | 48 |
| ***TOTAL*** | *1,242* |

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Based on whether the variable is nominal, ordinal, or interval/ratio calculate the appropriate measures of central tendency (up to all three – see overview above for a refresher).

Mode:

Median:

Mean:

Variable 7: How happy are you?

|  |  |  |
| --- | --- | --- |
| **Frequency Distribution** | | |
| Cells contain: -N of cases | | **Distribution** |
| **Overall, How**  **Happy Are You?** | VERY HAPPY | 413 |
| PRETTY HAPPY | 710 |
| NOT TOO HAPPY | 151 |
| ***TOTAL*** | *1,274* |

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Mode:

Median:

Mean:

Variable 8: Do you think other people are mostly fair with each other?

|  |  |  |
| --- | --- | --- |
| **Frequency Distribution** | | |
| Cells contain: -N of cases | | **Distribution** |
| **Do you think people are mostly fair with on another, or do they mostly take advantage of other people?** | TAKE ADVANTAGE | 340 |
| FAIR | 405 |
| IT DEPENDS | 93 |
| ***TOTAL*** | *838* |

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Based on whether the variable is nominal, ordinal, or interval/ratio calculate the appropriate measures of central tendency (up to all three – see overview above for a refresher).

Mode:

Median:

Mean:

Variable 9: What region of the country did you live in when you were 16?

|  |  |  |
| --- | --- | --- |
| **Frequency Distribution** | | |
| Cells contain: -N of cases | | **Distribution** |
| **What region of the country**  **did you live in when you**  **were 16?** | FOREIGN | 100 |
| NEW ENGLAND | 42 |
| MIDDLE ATLANTIC | 157 |
| E. NOR. CENTRAL | 253 |
| W. NOR. CENTRAL | 99 |
| SOUTH ATLANTIC | 225 |
| E. SOU. CENTRAL | 75 |
| W. SOU. CENTRAL | 114 |
| MOUNTAIN | 60 |
| PACIFIC | 151 |
| ***TOTAL*** | *1,276* |

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Mode:

Median:

Mean:

Variable 10: Religious Preference

|  |  |  |
| --- | --- | --- |
| **Frequency Distribution** | | |
| Cells contain: -N of cases | | **Distribution** |
| **What is your**  **religious preference?** | PROTESTANT | 691 |
| CATHOLIC | 300 |
| JEWISH | 22 |
| NONE | 188 |
| OTHER (SPECIFY) | 16 |
| BUDDHISM | 11 |
| HINDUISM | 6 |
| MOSLEM/ISLAM | 2 |
| ORTHODOX-CHRISTIAN | 6 |
| CHRISTIAN | 26 |
| NATIVE AMERICAN | 1 |
| INTER-NONDENOMINATIONAL | 2 |
| ***TOTAL*** | *1,271* |

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Mode:

Median:

Mean: