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| **QMB350-0903B-09 Statistical Analysis** | |
| Assignment Name: | Unit 1 Individual Project |
| Deliverable Length: | 3 pages |
| Details: | The data set for our course is a sample of a survey conducted on the population of the American Intellectual Union (AIU).  It is available via the following link: [DataSet with DataSet Key](https://mycampus.aiu-online.com/courses/QMB350/Assignment_Assets/DataSetandDataSetKey_0903B.zip) which contains the following nine sections of data that will be used throughout our course:  (1) Gender (2) Age (3) Department (4) Position (5) Tenure (6) Overall Job Satisfaction (7) Intrinsic Job Satisfaction – Satisfaction with the actual performance of the job (8) Extrinsic Job Satisfaction- Things external to the job, e.g., office location, your work colleagues, your own office (cubicle/hard walled office, etc), and (9) Benefits – Health insurance, pension plan, vacation, sick days, etc.  In each of the assignments in this course you will be dealing with the following scenario:  American Intellectual Union (AIU) has assembled a team of researchers in the United States and around the world to study job satisfaction. Congratulations, you have been selected to participate in this massive global undertaking.  The study will require that you examine data, analyze the results, and share the results with groups of other researchers. Job Satisfaction is important to companies large and small and understanding it provides managers with insights into human behavior that can be used to strengthen the company's bottom line.  In the first assignment you are to complete the following:  You will need to examine two of the nine sections of data, one section of qualitative data (choose either Gender or Position) and one section of quantitative data (choose either Intrinsic or Extrinsic), from the provided data set through the link above. Each section should include all data points listed in the column for the variable. The requirements include identifying the data you selected, discussing why the data was selected and what was learned by examining these sets of data. Your analysis should include using Microsoft Excel to obtain information about the data through the use of three measures of central tendency (mean, median, mode) and the use of two measures of variability (standard deviation and variance). Some measures are appropriate for qualitative data and some are appropriate for quantitative data. If a measure is not applicable, then explain why. You will have to also provide one chart/graph for each of the results of the two processed sections of data (2 total), such as a pie or bar chart or a histogram. (A table is NOT a chart/graph.) Ensure that you label the chart/graph clearly. You will then need to discuss what you additionally learned from the results of this process. Explain why charts/graphs are important in conveying information in a visual format and why standard deviation and variation are important. You will need to combine all of the items above into one comprehensive report.  This report must be completed in Microsoft Word and should contain:   * An Introduction. * The data selected. * Discussion of why you chose the data and what you learned from your process results. * The measures of central tendency and variability. Copy and paste your output from Excel. * The charts/graphs. * Summary of what you learned and why the processes are important.   The report should be well written and should flow well with no grammatical errors. It should include proper citation in APA formatting in both the in-text and reference pages and include a title page, be double-spaced and in Times New Roman, 12-point font. APA formatting is necessary to ensure academic honesty. |

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| **GENDER** | **AGE** | **DEPT** | **POSITION** | **TENURE** | **OVERALL** | **INTRINSIC** | **EXTRINSIC** | **BENEFITS** |
| 1 | 3 | 3 | 1 | 1 | 3.8 | 5.5 | 4.1 | 6.1 |
| 1 | 1 | 1 | 2 | 3 | 5.3 | 4.2 | 4.7 | 6.3 |
| 1 | 2 | 1 | 2 | 1 | 6.5 | 5.3 | 3.8 | 5.1 |
| 1 | 2 | 2 | 1 | 2 | 4.6 | 4.3 | 5.6 | 5.3 |
| 1 | 1 | 3 | 2 | 3 | 6.4 | 4 | 5.5 | 4.5 |
| 1 | 1 | 3 | 1 | 2 | 5.1 | 4.5 | 4.4 | 5.5 |
| 1 | 2 | 2 | 2 | 3 | 5.3 | 4.7 | 3.1 | 5.2 |
| 1 | 1 | 2 | 1 | 1 | 3.7 | 5.3 | 6.9 | 5.1 |
| 1 | 2 | 3 | 1 | 1 | 5.5 | 4.9 | 4.6 | 5.6 |
| 1 | 2 | 2 | 2 | 3 | 4.2 | 3.4 | 6.2 | 5.5 |
| 1 | 2 | 2 | 1 | 1 | 5.2 | 5.5 | 5.5 | 4.1 |
| 2 | 3 | 2 | 1 | 1 | 5.1 | 6 | 4.9 | 5.2 |
| 2 | 2 | 1 | 1 | 2 | 6.5 | 6.2 | 3.2 | 5.3 |
| 2 | 2 | 2 | 2 | 2 | 6.5 | 4.2 | 4.6 | 6.2 |
| 2 | 2 | 3 | 1 | 1 | 5.9 | 5.7 | 5.7 | 5.4 |
| 2 | 2 | 1 | 1 | 1 | 6.8 | 6.4 | 6.1 | 4.2 |
| 2 | 1 | 2 | 1 | 3 | 5.1 | 3.7 | 3.9 | 3.2 |
| 2 | 2 | 2 | 2 | 2 | 4.6 | 6.2 | 4.6 | 6.2 |
| 2 | 1 | 2 | 1 | 2 | 6.2 | 6.5 | 5.5 | 5.7 |
| 2 | 3 | 2 | 1 | 1 | 5.6 | 6.2 | 4.4 | 5.6 |
| 2 | 2 | 3 | 2 | 1 | 4.5 | 6.2 | 4.4 | 5.4 |
| 2 | 2 | 1 | 2 | 3 | 5.9 | 6.3 | 6.2 | 4.3 |
| 2 | 1 | 2 | 1 | 3 | 5.4 | 5.7 | 4.7 | 5.7 |
| 2 | 1 | 3 | 1 | 2 | 6.9 | 5.2 | 5.5 | 6.3 |
| 2 | 2 | 2 | 2 | 1 | 5.6 | 4.6 | 3.3 | 5.6 |

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| **KEY TO JOB SATISFACTION SURVEY** | |
| **Gender** | |
| 1 | Male |
| 2 | Female |
| **Age** | |
| 1 | 16 - 21 |
| 2 | 22 - 49 |
| 3 | 50 - 65 |
| **Department** | |
| 1 | Human Resources |
| 2 | Information Technology |
| 3 | Administration |
| **Position** | |
| 1 | Hourly Employee (Overtime Eligible) |
| 2 | Salaried Employee (No Overtime) |
| **Tenure With Company** | |
| 1 | Less than 2 years |
| 2 | 2 to 5 years |
| 3 | Over 5 Years |
| **OVERALL** | *Scale from 1-7* |
|  | 1 = Least Satisfied |
|  | 7 = Most Satisfied |
| **INTRINSIC** | *Scale from 1-7* |
|  | 1= Least Satisfied |
|  | 7= Most Satisfied |
| **EXTRINSIC** | *Scale from 1-7* |
|  | 1 = Least Satisfied |
|  | 7 = Most Satisfied |
| **BENEFITS** | *Scale from 1-7* |
|  | 1= Least Satisfied |
|  | 7= Most Satisfied |