**BIS 305**

# Assignment 3

**Due 9/26/22**

Assignment to be turned in. This assignment should be well written with a word processor.

18. Find the first, second, and third quartiles for the combined amounts of checking and savings accounts in the Excel file Credit Risk Data and interpret the results

|  |  |
| --- | --- |
| 1st Quartile of Check + save accounts | $490.00 |
| 2nd Quartile of Check + save accounts | $836.00 |
| 3rd Quartile of Check + save accounts | $2,632.00 |

20. Use a PivotTable to construct a crosstabulation for loan purpose and credit risk for the Base Data worksheet in the Excel file Credit Risk Data.

|  |  |  |  |
| --- | --- | --- | --- |
| **.** | **Credit Risk** |  |  |
| **Loan Purpose** | **High** | **Low** | **Grand Total** |
| Business | 23 | 21 | 44 |
| Education | 14 | 9 | 23 |
| Furniture | 43 | 42 | 85 |
| Large Appliance | 3 | 1 | 4 |
| New Car | 65 | 39 | 104 |
| Other | 4 | 2 | 6 |
| Repairs | 4 | 8 | 12 |
| Retraining | 1 | 1 | 2 |
| Small Appliance | 42 | 63 | 105 |
| Used Car | 12 | 28 | 40 |
| **Grand Total** | **211** | **214** | **425** |

54. In the Excel file Debt and Retirement Savings, use a PivotTable to find the mean and standard deviation of income, long-term debt, and retirement savings for both single and married individuals.



65. For the Excel file Credit Risk Data, compute the correlation between age and months employed, age and combined checking and savings account balance, and the number of months as a customer and amount of money in the bank. Interpret your results

|  |  |
| --- | --- |
| Correlation of age and months employed | 0.306799 |
| Correlation of age & combined checking & savings account balance | -0.02262 |
| Correlation of # of months as a customer vs amount of money in the bank | -0.06121 |

There’s almost no correlation between age and the amount of money in the bank. This means that there is not direct correlation between age and the amount in the bank.

There is almost no correlation between the # of months as a customer in this bank and the amount of money the bank.

there is a slight positive correlation between age and months employed. The older you are, the more money in the bank that you have.