

SPSS EXERCISE - 1

A study was conducted to know the attitude of a bank's customer towards the online transactions through bank. The question asked to the customer was:

“Do you feel safe in your online transactions with the bank?”

The respondents were to answer the question on a seven-point scale (1 = Strongly Disagree, 7 = Strongly Agree). There were other variables mentioned below on which data was collected.

These are

1. Sex of the respondent
 - Male - 1
 - Female - 2
2. Marital status
 - Married - 2
 - Single - 1
3. Income of the respondent (in rupees)
4. Age of the respondent (in years)
5. Educational background of the respondent
 - Illiterate - 1
 - Below higher secondary - 2
 - Higher secondary - 3
 - Graduation - 4
 - Post graduation - 5

Create Variables sn, sex, marital, income, age, education and cs_bank in SPSS. Put these value of 100 observation in the respective variables, obtain if there is any outliers in the income and age. Use visual binning to make class interval of income and age. Similarly obtain if there is any entry level mistake in education? Use visual binning in income and age. The data is also given in excel format.

The data to be used is given below.

| SN | Sex | Marital | Income | Age | Education | CS for Bank |
|----|-----|---------|--------|-----|-----------|-------------|
| 1 | M | M | 7000 | 53 | 1 | 5 |
| 2 | M | S | 12500 | 20 | 2 | 6 |
| 3 | M | S | 9200 | 26 | 3 | 5 |
| 4 | M | S | 22000 | 32 | 4 | 4 |
| 5 | M | S | 99000 | 40 | 5 | 4 |
| 6 | M | S | 5000 | 21 | 5 | 1 |
| 7 | F | S | 11500 | 29 | 4 | 8 |
| 8 | F | M | 17400 | 40 | 3 | 5 |

| | | | | | | |
|----|---|---|-------|-----|---|---|
| 9 | M | M | 12200 | 26 | 2 | 4 |
| 10 | M | M | 12800 | 29 | 1 | 4 |
| 11 | F | M | 1000 | 42 | 1 | 7 |
| 12 | F | M | 7500 | 104 | 1 | 6 |
| 13 | F | M | 22000 | 50 | 3 | 2 |
| 14 | F | S | 24000 | 55 | 4 | 1 |
| 15 | M | M | 18000 | 33 | 5 | 5 |
| 16 | F | M | 17000 | 28 | 2 | 2 |
| 17 | M | M | 15000 | 30 | 2 | 7 |
| 18 | F | M | 14000 | 34 | 3 | 6 |
| 19 | F | M | 9200 | 34 | 5 | 7 |
| 20 | F | S | 9500 | 27 | 1 | 6 |
| 21 | F | S | 10000 | 25 | 4 | 4 |
| 22 | M | M | 7800 | 44 | 5 | 1 |
| 23 | M | M | 6800 | 25 | 2 | 7 |
| 24 | F | M | 16200 | 24 | 2 | 6 |
| 25 | M | M | 6000 | 20 | 2 | 5 |
| 26 | M | S | 21000 | 25 | 3 | 7 |
| 27 | M | M | 27000 | 47 | 4 | 2 |
| 28 | F | S | 9400 | 23 | 5 | 3 |
| 29 | F | M | 16200 | 32 | 1 | 5 |
| 30 | F | S | 9200 | 22 | 3 | 6 |
| 31 | M | M | 5400 | 46 | 4 | 6 |
| 32 | F | M | 9300 | 21 | 2 | 7 |
| 33 | F | M | 6700 | 32 | 1 | 1 |
| 34 | M | M | 25000 | 23 | 1 | 1 |
| 35 | M | S | 5000 | 21 | 3 | 3 |
| 36 | M | S | 7900 | 24 | 5 | 4 |
| 37 | F | M | 9700 | 21 | 1 | 5 |
| 38 | M | M | 24300 | 51 | 2 | 5 |
| 39 | M | M | 22500 | 34 | 2 | 6 |
| 40 | M | S | 27000 | 54 | 2 | 1 |
| 41 | M | M | 9400 | 32 | 3 | 2 |
| 42 | F | M | 16200 | 43 | 4 | 3 |
| 43 | F | M | 9200 | 45 | 5 | 4 |
| 44 | F | M | 23670 | 54 | 5 | 5 |

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|----|---|---|-------|----|---|---|
| 45 | F | M | 12800 | 43 | 5 | 6 |
| 46 | F | S | 25000 | 54 | 5 | 7 |
| 47 | M | S | 5400 | 23 | 1 | 7 |
| 48 | M | S | 9300 | 50 | 1 | 1 |
| 49 | M | S | 5430 | 32 | 1 | 1 |
| 50 | M | M | 6980 | 65 | 1 | 2 |
| 51 | M | S | 7345 | 32 | 2 | 3 |
| 52 | M | M | 18000 | 40 | 4 | 4 |
| 53 | M | M | 19500 | 34 | 5 | 4 |
| 54 | F | S | 23450 | 26 | 5 | 5 |
| 55 | M | M | 13240 | 43 | 3 | 5 |
| 56 | F | S | 20560 | 32 | 2 | 6 |
| 57 | M | S | 8600 | 37 | 3 | 6 |
| 58 | M | M | 11800 | 43 | 1 | 7 |
| 59 | F | S | 12000 | 34 | 4 | 7 |
| 60 | F | S | 13090 | 43 | 5 | 1 |
| 61 | M | M | 13570 | 29 | 2 | 1 |
| 62 | M | M | 15600 | 39 | 4 | 2 |
| 63 | F | M | 14000 | 38 | 2 | 3 |
| 64 | F | S | 7600 | 30 | 3 | 4 |
| 65 | M | S | 8300 | 23 | 2 | 5 |
| 66 | M | S | 19000 | 30 | 1 | 6 |
| 67 | F | S | 21000 | 40 | 5 | 7 |
| 68 | F | S | 24665 | 49 | 1 | 6 |
| 69 | F | M | 21354 | 32 | 4 | 4 |
| 70 | F | M | 14000 | 34 | 2 | 2 |
| 71 | M | S | 6510 | 54 | 2 | 1 |
| 72 | M | M | 9400 | 32 | 3 | 2 |
| 73 | F | M | 16200 | 43 | 4 | 3 |
| 74 | F | M | 14500 | 45 | 5 | 4 |
| 75 | F | M | 23670 | 54 | 5 | 5 |
| 76 | F | M | 30200 | 43 | 5 | 6 |
| 77 | F | S | 32500 | 54 | 5 | 7 |
| 78 | M | S | 33000 | 23 | 1 | 7 |
| 79 | M | S | 5400 | 50 | 1 | 1 |
| 80 | M | S | 5430 | 32 | 1 | 1 |

| | | | | | | |
|-----|---|---|-------|----|---|---|
| 81 | M | M | 6980 | 65 | 1 | 2 |
| 82 | M | S | 7345 | 32 | 2 | 3 |
| 83 | M | M | 18000 | 40 | 4 | 4 |
| 84 | M | M | 19500 | 34 | 5 | 4 |
| 85 | F | S | 23450 | 26 | 5 | 5 |
| 86 | M | M | 18500 | 43 | 3 | 5 |
| 87 | F | S | 20560 | 32 | 2 | 6 |
| 88 | M | S | 22540 | 37 | 3 | 6 |
| 89 | M | M | 22650 | 43 | 1 | 7 |
| 90 | F | S | 30520 | 34 | 4 | 7 |
| 91 | F | S | 8000 | 43 | 5 | 1 |
| 92 | M | M | 6520 | 29 | 2 | 1 |
| 93 | M | M | 15600 | 39 | 4 | 2 |
| 94 | F | M | 14000 | 38 | 2 | 3 |
| 95 | F | S | 20222 | 30 | 3 | 4 |
| 96 | M | S | 24100 | 23 | 2 | 5 |
| 97 | M | S | 19000 | 30 | 1 | 6 |
| 98 | F | S | 21000 | 40 | 5 | 7 |
| 99 | F | S | 24665 | 49 | 1 | 6 |
| 100 | F | M | 21354 | 32 | 4 | 4 |