

Chapter 2: Data Sets

Practice Problem Answers

1.
 - a. rows
 - b. columns

2.
 - a. variable view
 - b. variable view
 - c. variable view
 - d. data view
 - e. data view

3. a variable name

4.
 - a. not legitimate
 - b. not legitimate
 - c. not legitimate
 - d. legitimate

5. Numeric variable values may only contain numbers, decimal points, and positive or negative signs. String variable values may contain any characters including spaces.

6.
 - a. 432000
 - b. .0432
 - c. -987000000
 - d. -.00987

7. scale

8.
 - a. nominal
 - b. ordinal
 - c. scale (interval/ratio)

9.
 - a. a smart choice because it is numeric but outside the valid range of the variable
 - b. not a smart choice because it is a possible valid value for the variable
 - c. not a smart choice because it is not a numeric value
 - d. not a smart choice because a cell might be left blank for other reasons

10.
 - a. Variable View
 - b. Display Data File Information or Variable View
 - c. Options (General tab)
 - d. Options (Output Labels tab)
 - e. Help | Topics | Index

11.

Frequencies

Statistics

GROUP

| | | |
|---|---------|------|
| N | Valid | 1258 |
| | Missing | 0 |

GROUP

| | Frequency | Percent | Valid Percent | Cumulative Percent |
|-------------------------------|-----------|---------|---------------|--------------------|
| Valid 1 1980 GSS young adults | 327 | 26.0 | 26.0 | 26.0 |
| 2 1980 GSS middle-age adults | 212 | 16.9 | 16.9 | 42.8 |
| 3 2010 GSS young adults | 341 | 27.1 | 27.1 | 70.0 |
| 4 2010 GSS middle-age adults | 378 | 30.0 | 30.0 | 100.0 |
| Total | 1258 | 100.0 | 100.0 | |

12. (Student output should resemble the *Display Data File Information* output and Data View printout that appears in the problem. The Data View printout should contain a sixth line containing the student's stats.)

13. (Answers will vary.)

Variable Information

| Variable | Position | Label | Measurement Level | Role | Column Width | Alignment | Print Format | Write Format | Missing Values |
|----------------|----------|---|-------------------|------|--------------|-----------|--------------|--------------|----------------|
| PRESIDENT | 1 | <none> | Nominal | None | 22 | Left | A22 | A22 | |
| INAUGURATED1ST | 2 | Year the Person Was First Inaugurated | Scale | None | 14 | Right | F8 | F8 | |
| TOTALYEARS | 3 | Total Number of Years Served as President | Scale | None | 10 | Right | F8 | F8 | -1 |
| PARTY | 4 | <none> | Scale | None | 8 | Right | F8 | F8 | |
| PRIOROFFICE | 5 | Last Elected Office before Becoming President | Nominal | None | 11 | Right | F8 | F8 | |
| POPULAR1ST | 6 | % of Popular Vote in 1st Successful Presidential Election | Scale | None | 12 | Right | F8.1 | F8.1 | -1.0 |

Variables in the working file

Variable Values

| Value | | Label |
|-------------|-------------------|-----------------|
| TOTALYEARS | -1 ^a | still in office |
| PARTY | 0 | Democrat |
| | 1 | Republican |
| PRIOROFFICE | 0 | none |
| | 1 | senator |
| | 2 | vice-president |
| | 3 | govenor |
| POPULAR1ST | -1.0 ^a | no election won |

a. Missing value

| | PRESIDENT | INAUGURATED1ST | TOTALYEARS | PARTY | PRIOROFFICE | POPULAR1ST |
|----|----------------------|----------------|------------|-------|-------------|------------|
| 1 | Dwight D. Eisenhower | 1953 | 8 | 1 | 0 | 55.4 |
| 2 | John F. Kennedy | 1961 | 2 | 0 | 1 | 50.1 |
| 3 | Lyndon B. Johnson | 1963 | 6 | 0 | 2 | 61.3 |
| 4 | Richard M. Nixon | 1969 | 5 | 1 | 2 | 43.6 |
| 5 | Gerald R. Ford | 1974 | 3 | 1 | 2 | -1.0 |
| 6 | James E. Carter | 1977 | 4 | 0 | 3 | 51.1 |
| 7 | Ronald W. Reagan | 1981 | 8 | 1 | 3 | 51.6 |
| 8 | George H. Bush | 1989 | 4 | 1 | 2 | 53.9 |
| 9 | William J. Clinton | 1993 | 8 | 0 | 3 | 43.3 |
| 10 | George W. Bush | 2001 | 8 | 1 | 3 | 49.7 |
| 11 | Barack H. Obama | 2009 | -1 | 0 | 1 | 52.9 |

14. (Answers will vary.)

Variable Information

| Variable | Position | Label | Measurement Level | Role | Column Width | Alignment | Print Format | Write Format | Missing Values |
|----------|----------|---------------------------------------|-------------------|------|--------------|-----------|--------------|--------------|----------------|
| TITLE | 1 | <none> | Nominal | None | 20 | Left | A20 | A20 | |
| NETWORK | 2 | <none> | Nominal | None | 8 | Right | F8 | F8 | |
| TYPE | 3 | type of show | Nominal | None | 8 | Right | F8 | F8 | |
| STARTED | 4 | year first episode aired | Scale | None | 8 | Right | F8 | F8 | -1 |
| SEASONS | 5 | number of seasons with original title | Scale | None | 8 | Right | F8 | F8 | -1 |

Variables in the working file

Variable Values

| Value | | Label |
|---------|-----------------|------------------|
| NETWORK | 1 | CBS |
| | 2 | NBC |
| | 3 | ABC |
| | 4 | HBO |
| TYPE | 1 | situation comedy |
| | 2 | drama |
| STARTED | -1 ^a | debated |
| SEASONS | -1 ^a | debated |

a. Missing value

| | TITLE | NETWORK | TYPE | STARTED | SEASONS |
|---|-------------------|---------|------|---------|---------|
| 1 | Seinfeld | 2 | 1 | 1989 | 9 |
| 2 | I Love Lucy | 1 | 1 | 1951 | 6 |
| 3 | The Honeymooners | 1 | 1 | -1 | -1 |
| 4 | All in the Family | 1 | 1 | 1971 | 8 |
| 5 | The Sopranos | 4 | 2 | 1999 | 6 |