Chapters 1-7: Descriptive Statistics

SPSS Assignment

***Instructions:***

1. Variables highlighted in red (see file SPSS Data Set.274) must be entered in the data editor as

numeric values. Refer to the Doctoral Application Coding Guide (page 4).

2. Print a copy of the data editor file with all relevant variables included.

3. All required printouts must be attached to assignment.

4. Answer to all questions must be typed.

***Note:***

1. Assignment must be typed. Only typed assignments will be graded.

2. Printouts and Data sheet must be uploaded with the assignment. No credit will be given if the

original printouts and data sheet are not uploaded with the assignment.

3. No duplication of answers or printouts in anyway.

***Note:***

Last Name Ending: A-I are assigned variables **Ethnicity GPA** (Refer to page 1)

J-R are assigned variables **Category Pretest** (Refer to page 2)

S-Z are assigned variables **SES GREQ** (Refer to page 3)

***I****. Identify the characteristics (scale of measurement; qualitative or quantitative; continuous or*

*discontinuous) of scores for the following variables:*

**Gender Ethnicity GPA**

***II.*** *Use SPSS to run the following:*

1. a frequency distribution for the variable **Ethnicity** and the variable **GPA**

2. the appropriate graph, either a histogram with a normal curve or bar graph, for the

variable **Ethnicity** and for the variable **GPA**

3. analyses on **GPA** scores: mean, median, mode, standard deviation, skew, and the

GPA score for the top 10% of the distribution.

4. compare the mean analysis command, calculate the mean and standard deviation for

**Ethnicity** based on **GPA** scores

***III****. Use the printouts from the analyses to answer the following:*

1. Use the analyses from **GPA** scores to interpret the mean, median, mode, standard

deviation, skew, and the top 10% of the distribution.

2. Use the analyses from the compare the mean printout to answer the following:

a. Which **Ethnicity** performed better on the **GPA** subscale?

b. Which **Ethnicity** demonstrated more consistent scores on the **GPA** subscale?

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J-R are assigned variables **Category Pretest** (Refer to page 2)

S-Z are assigned variables **SES GREQ** (Refer to page 3)

***I****. Identify the characteristics (scale of measurement; qualitative or quantitative; continuous or*

*discontinuous) of scores for the following variables:*

**Gender Category Pretest**

***II.*** *Use SPSS to run the following:*

1. a frequency distribution for the variable **Category** and the variable **Pretest**

2. the appropriate graph, either a histogram with a normal curve or bar graph, for the

variable **Category** and for the variable **Pretest**

3. analyses on **Pretest** scores: mean, median, mode, standard deviation, skew, and the

Pretest score for the top 10% of the distribution.

4. compare the mean analysis command, calculate the mean and standard deviation for

**Category** based on **Pretest** scores

***III****. Use the printouts from the analyses to answer the following:*

1. Use the analyses from **Pretest** scores to interpret the mean, median, mode, standard

deviation, skew, and the top 10% of the distribution.

2. Use the analyses from the compare the mean printout to answer the following:

a. Which **Category** performed better on the **Pretest** subscale?

b. Which **Category** demonstrated more consistent scores on the **Pretest** subscale?

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J-R are assigned variables **Category Pretest** (Refer to page 2)

S-Z are assigned variables **SES GREQ** (Refer to page 3)

***I****. Identify the characteristics (scale of measurement; qualitative or quantitative; continuous or*

*discontinuous) of scores for the following variables:*

**Gender SES GREQ**

***II.*** *Use SPSS to run the following:*

1. a frequency distribution for the variable **SES** and the variable **GREQ**

2. the appropriate graph, either a histogram with a normal curve or bar graph, for the

variable **SES** and for the variable **GREQ**

3. analyses on **GREQ** scores: mean, median, mode, standard deviation, skew, and the

Pretest score for the top 10% of the distribution.

4. compare the mean analysis command, calculate the mean and standard deviation for

**SES** based on **GREQ** scores

***III****. Use the printouts from the analyses to answer the following:*

1. Use the analyses from **GREQ** scores to interpret the mean, median, mode, standard

deviation, skew, and the top 10% of the distribution.

2. Use the analyses from the compare the mean printout to answer the following:

a. Which **SES** performed better on the **GREQ** subscale?

b. Which **SES** demonstrated more consistent scores on the **GREQ** subscale?

Coding Guide for Doctoral Application

|  |  |  |
| --- | --- | --- |
| Variable Name | Variable Description | Coding Information |
| ID | Identification number |  |
| GENDER | Gender of applicant | 1 = male  2 = female |
| SES | Socioeconomic status of applicant | 1 = lower  2 = middle  3 = upper |
| ETHNIC | Ethnicity of applicant | 1 = white  2 = African-  American  3 = Asian  4 = Hispanic |
| CATEGORY | Category of applicant | 1 = finished  2 = dropped |
| AGE | Age of applicant at entry |  |
| MARITAL | Marital status of applicant | 1 = married  2 = not married |
| GPA | Undergraduate GPA |  |
| GREQ | GRE quantitative section | 200 – 800 |
| GREV | GRE verbal section | 200 – 800 |
| PRETEST | Subject area pretest | 0 – 100 |
| RATING1 | Rating from faculty interview #1 | 1-10 |
| RATING2 | Rating from faculty interview #2 | 1-10 |