

## Response Summary:

### 1. Student Information \*

<b>First Name</b>	Rae
<b>Last Name</b>	Fu
<b>Major</b>	Animation and Visual Effects
<b>Course</b> (e.g. CGT 270-001)	CGT 270-004
<b>Term</b> (e.g. F2019)	S2022

### 2. Email Address \*

(University Email Address is required.)

fu345@purdue.edu

### 3. Visualization Assignment \*

- Homework Assignment

## Analyze

### 4. Basic Descriptors: for each data component from the Parse Worksheet, identify basic descriptors (basic statistics). Explain \*

Total Employed: min: 0, max: 64,744, average: 880  
Women: min: 0.0, max: 98.2, average: 46.3  
White: min: 19.6, max: 98.2, average: 77.8  
African American: min: 1.1, max: 42.9, average: 12.1  
Asian: min: 0.0, max: 73.1, average: 6.5  
Hispanic or Latino: min: 2.4, max: 72.5, average: 16.9  
Occupations: Strings.

### 5. Categorize: consider what is similar and what is different? Categorize the data. Are the variables categorical (normal, ordinal, or rank). Are they quantitative (discrete or continuous)? Show categories. Explain. \*

The minorities are similar, and the occupations have more clusters. The occupation is normal categorical and the rest of the variables are discrete.

### 6. Temporal: is the data streaming data? How is it stored (all at one time, over several years in years, days, minutes, seconds)? Explain. \*

The data is not streaming data, it is stored at one time since it is a spreadsheet uploaded onto a website.

### 7. Range and Distribution: what is the distribution of the data? Few values, small size, evenly spread, sparse or dense? Explain. \*

There is a wide range with many values and dense, because there are a lot of values included in the data.

## Evaluate

**8. Questions and Assumptions: list at least 3 questions you plan to answer with the data or list the questions if they were provided. Must be complete sentences and end in a question mark. What assumptions are you making? \***

<b>Question 1</b>	What is the breakdown of occupations for African Americans?
<b>Question 2</b>	What is the percentage of the occupation with the highest percentage of African Americans employed?
<b>Question 3</b>	What is the percent difference between the occupation with the greatest percentage and the occupation with the lowest percentage of African Americans?
<b>Assumptions</b>	The assumptions are that the data is collected from the same large population.

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