Response Summary:

1. Student Information *

First Name	David
Last Name	Luo
Major	Data Science`
Course (e.g. CGT 270-001)	CGT 270-LEC
Term (e.g. F2019)	S2022

2. Email Address *
(University Email Address is required.)
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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, Women, White, Black or African American, Asian, Hispanic or Latino, Men
count 20.000000, 20.000000, 20.000000, 20.000000, 20.000000, 20.000000, 20.000000,
mean 22887.050000, 41.925000, 77.580000, 13.015000, 5.380000, 22.795000, 58.075000,
std 34085.437873, 24.152844, 5.862961, 4.976712, 2.496229, 9.630679, 24.152844,
min 1061.000000, 3.900000, 64.500000, 1.700000, 10.000000, 14.900000,
25% 5333.250000, 24.100000, 73.750000, 9.650000, 3.375000, 17.075000, 42.900000
50% 12659.000000, 46.150000, 77.550000, 12.850000, 5.250000, 21.450000, 53.850000
75% 25268.250000, 57.100000, 79.975000, 15.375000, 6.650000, 26.225000, 75.900000
max 152581.000000, 85.100000, 88.400000, 24.500000, 10.400000, 43.900000, 96.100000

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. *

Occupation is nominal data
Total employed is discrete
All else Is continous

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

This data is not temporal.

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

Total employed is has a very large spread. This makes sense as it is a raw #of people and not a percentage
The distribution of all other fields have a moderate spread.
The data as a whole is dense (has few Null values)

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? *

Question 1	Is there a race bias towards any specific job?
Question 2	How different are the occupation distributions for each gender?
Question 3	In 2021, how severe is race discrimination in the employment market?
Assumptions	Same as all previous assumptions