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| Data Science Academy Bootcamp | | | | | | | | | |
| Midterm exam | | | | | | | | | |
| **Name,Surname:** | Şahin Məmmədov | |  | | | | Date: | 09.25.2022 | |
| **Exam:** Data visualization with Tableau | |  | |  |  | | | | |
| **Instructions:** You will be given ***1 hour*** to complete the examination. There are 2 parts and 3 types of questions including: True/False, Multiple choice and Practical.  **First part** will last ***15 minutes****,* and you must write answers on the exam paper. Internet search is **not** permitted.  **Second part** is Practical questions and will last ***45 minutes***. It is your responsibility to submit your exam answers electronically to [homework@dsa.az](mailto:homework@dsa.az) with **“Tableau Exam”** subject.  Before you leave the examination venue you **MUST** contact a mentor to confirm that you have submitted your answers.  Good Luck! | | | | | | | | | |
| PART 1: TRUE/FALSE | | | | | | | | | |
| **Directions: Read each statement below carefully. Place a** Checkmark **mark on the “True” cell if you think a statement is TRUE, and on the “False” cell if you think the statement is FALSE.** | | | | | | | | | |
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|  | | | | | | True | False | | |
| 1. There are 9 data types in tableau (3 points) | | | | | |  | + | | |
| 2. Scatterplot is used to create a visualization between 2 or more measures with or without dimensions(3 points) | | | | | | + |  | | |
| 3. With the help of boxplot you can understand the relationship between categorical variable and numeric variable (3 points) | | | | | |  | + | | |
| 4. Sets can be made on Measures (3 points) | | | | | | + |  | | |
| 5. There are 5 types of joins in Tableau Desktop (3 points) | | | | | |  | + | | |

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| PART 1: MULTIPLE CHOICE |
| **Directions: Read each question carefully, and then circle the answer that best fits the question.** |
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| 1. These charts are typically used to represent accumulated totals over time and are the conventional way to display stacked lines … (4 points)  a. tree map  b. line chart  c. area chart +  d. Gantt chart |
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| PART 1: MULTIPLE CHOICE |
| **Directions: Read each question carefully, and then circle the answer that best fits the question.** |
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| 2. For creating variable size bins we use \_\_\_\_\_\_ (3 points)  a. Sets  b. Groups  c. Calculated fields+  d. Table Calculations  3. What is aggregation of data.? (3 points)  a. The process of viewing numeric values or measures at higher and more summarized levels of the data is called aggregation +  b. Aggregating your data allows you to view every row of the data source which can be useful when you are analyzing measures  c. It’s the process whereby data is not gathered and expressed in a summary form.  d. None of the above  4. When would you use histogram instead of bar graph? (4 points)  a. compare variables  b. to show distributions of variables +  c. plot categorical data  d. to show proportions  5. What is group in Tableau? (3 points)  a. Custom fields used to hold the subset of the data based on a given condition  b. Workbook variable such as number, date or string that can replace a constant value in a calculation filter.  c. Collection of multiple members in a single dimension that is combined to form a higher category +  d. None of the above |
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