**Mid Term Exam**

**Student Name:** Abhaysinh Solanki

**Student Id:** 8754050

**Task 1 – Waterloo Museum of Art Data Visualization**

**Note: Please use your cleaned dataset from Assignment 2, otherwise you can also use the raw dataset.**

**Q1. Visualize the count of each type of medium of artifacts in the museum. [3 marks]**

**Ans 1.**

Chart, bar chart

Description automatically generated

**Q2. Create a filter field that displays the Department of each objects across each Culture. The method to visualise is up to you. Please make sure to add a filter field otherwise you will lose marks.**

**Ans 2.**

Graphical user interface, table

Description automatically generated

**Q3. Create a frequency distribution table (count of all unique**

**values) for values contained in the field named “Credit Line”.**

**Ans 3.**

Graphical user interface, application, table

Description automatically generated

**Q4. What is the average age across each Culture?**

**Ans 4.**

Chart, bar chart

Description automatically generated

**Q5. Display the number of different artist nationality types across each Culture.**

**Ans 5.**

Chart, treemap chart

Description automatically generated

**Task 2 – Online Sales Data Visualization**

**Note: Please use the online\_sales\_full.xls for this part of the midterm which can be found under Content -> Midterm.**

**Q1. Which product had the highest sale amount ($ value)? Note: Visualisation not necessary.**

**Ans 1.** Canon imageCLASS 2200 Advanced Copier had the highest sales amount of $ 61600.

Graphical user interface, text, application, email

Description automatically generated

**Q2. Which product had the lowest sale amount ($ value)? Note: Visualization not necessary.**

**Ans 2.** Eureka Disposable Bags for Sanitaire Vibra Groomer I Upright Vac had the lowest sales amount of $ 1.624.

Graphical user interface, text, application, email

Description automatically generated

**Q3. Visualize the top 3 products with the highest sales and subcategory and product name in the visualization.**

**Ans 3.**

Chart

Description automatically generated with medium confidence

**Q4. Create a bar graph with Category and the value as Sales. Enhance the visualization by 2 ways we have learned and sort Sales by descending order.**

**Ans 4.**

**Method 1- Bar Graph**

Chart, bar chart, treemap chart

Description automatically generated

**Method 2- Pie Chart**

Chart, pie chart

Description automatically generated

**Task 3 – Amalgamation**

**Q1. Create one or multiple Dashboards to visualize your outputs from Task 1 Q1-Q5.**

**Ans 1.**

**Dashboard 1:**

Graphical user interface, application

Description automatically generated

**Q2. Create one or multiple Dashboards to visualize your outputs from Task 2 Q1-Q4.**

**Ans 2. Dashboard Task 2**Graphical user interface, application, treemap chart, PowerPoint

Description automatically generated

**Q3. Create 2 separate Stories for Task 1 and Task 2.**

**Ans 3. Attached Story task in the file**

**Q4.** **Enhance visualization of your Stories by changing the navigator style**

**Ans 4. Customize the Story Visualization using navigator style.**