

Assignment - Data Visualization Activity (20%)

Due: Module 6

Purpose:

The purpose of this assignment is to create a final visualization which provides business insight, directly solving a particular business problem.

Assignment Objective:

For the business problem you selected, perform the required steps to extract and load aggregated data into a visualization tool and then create a graph that supports business problem solving.

Instructions:

This assignment uses the data related to the “Video Game Sales” business problem.

In this assignment, you will visualise the data for extracting insights. Assume that the data have been loaded into Hive and are already stored in the table you created in the last assignment. For your convenience, a copy of this table is provided for you in the learning management system (LMS).

Using the data in the **Excel file provided**, (in LMS and in module 6) perform the following tasks:

- 1) Create a histogram comparing the distribution of global sales for sports games and shooter games
- 2) Create a dashboard for the average critic score for Sports games and Shooter games.

NOTE: examples of the histogram and dashboard are provided in the module using the practice data set.

This assignment relates to the following Course Learning Requirements:

CLR 1: Appraise the strengths and limitations of current tools in data analysis

CLR 2: Illustrate how current tools are used to address these problems, including the strength and weaknesses of each tool.

CLR 3: Recommend tools and the best practices to support data analysis, data quality, problem solving, analytics and business decision-making.

CLR 4: Extract and load data to support problem solving and decision-making.

[Please review rubric below for guidance](#)

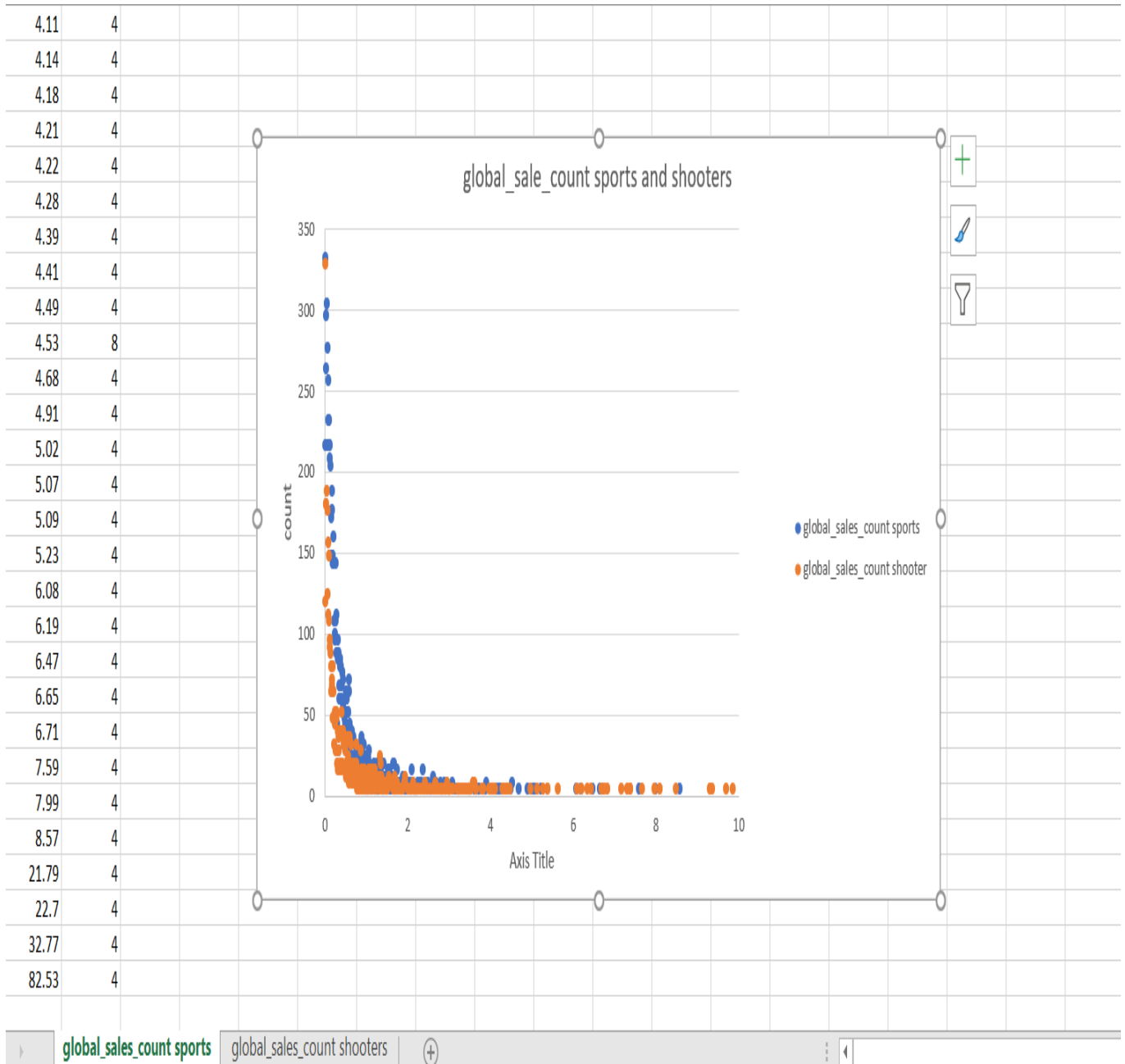
Rubric for Data Visualization Assignment – 20%

Category	WOW! Meets and Exceeds All Requirements.	Approaches or Meets Most Requirements.	Does not meet Requirements.	Points
Histogram	<ul style="list-style-type: none"> Chart title accurately describes the data Chart shows a range of data, including the "0" levels Axes labels are accurate Scale is appropriate for the data Data are in a table form that can be updated with a cut & paste operation Raw data are located on a different worksheet 	<ul style="list-style-type: none"> Chart title present Chart shows a limited range of data, including the "0" levels Axes labels are present Scale is present Data are in a table form Raw data are provided 	<ul style="list-style-type: none"> Chart title not included Chart does not show a range of data, the "0" levels are not shown Axes labels are absent Scale is absent Data are not in a table form Raw data are not provided 	/10
Dashboard	<ul style="list-style-type: none"> Dashboard title accurately describes the data The table contains accurate labels The pie chart contains accurate labels The data presented in the dashboard and pie chart are identical to the source data Data are in a table form that can be updated with a cut & paste operation Raw data are located on a different worksheet 	<ul style="list-style-type: none"> Dashboard title present The table contains labels The pie chart contains labels The data presented in the dashboard and pie chart are almost identical to the source data Data are in a table form Raw data are provided 	<ul style="list-style-type: none"> Dashboard title not present The table does not contain labels The pie chart does not contain labels The data presented in the dashboard and pie chart do not match the source data Data are not in a table form Raw data are not provided 	/10
Comments				
Total				/ 20

Answer Q1

global_sale_count sports

global_sale_count					
0.01	216				
0.02	332				
0.03	296				
0.04	264				
0.05	304				
0.06	276				
0.07	216				
0.08	256				
0.09	232				
0.1	216				
0.11	232				
0.12	208				
0.13	216				
0.14	204				
0.15	172				
0.16	148				
0.17	188				
0.18	176				
0.19	148				
0.2	144				
0.21	160				
0.22	108				
0.23	144				
0.24	96				
0.25	100				
0.26	108				
0.27	144				
0.28	112				
▶ global_sales_count sports	global_sales_count shooters				

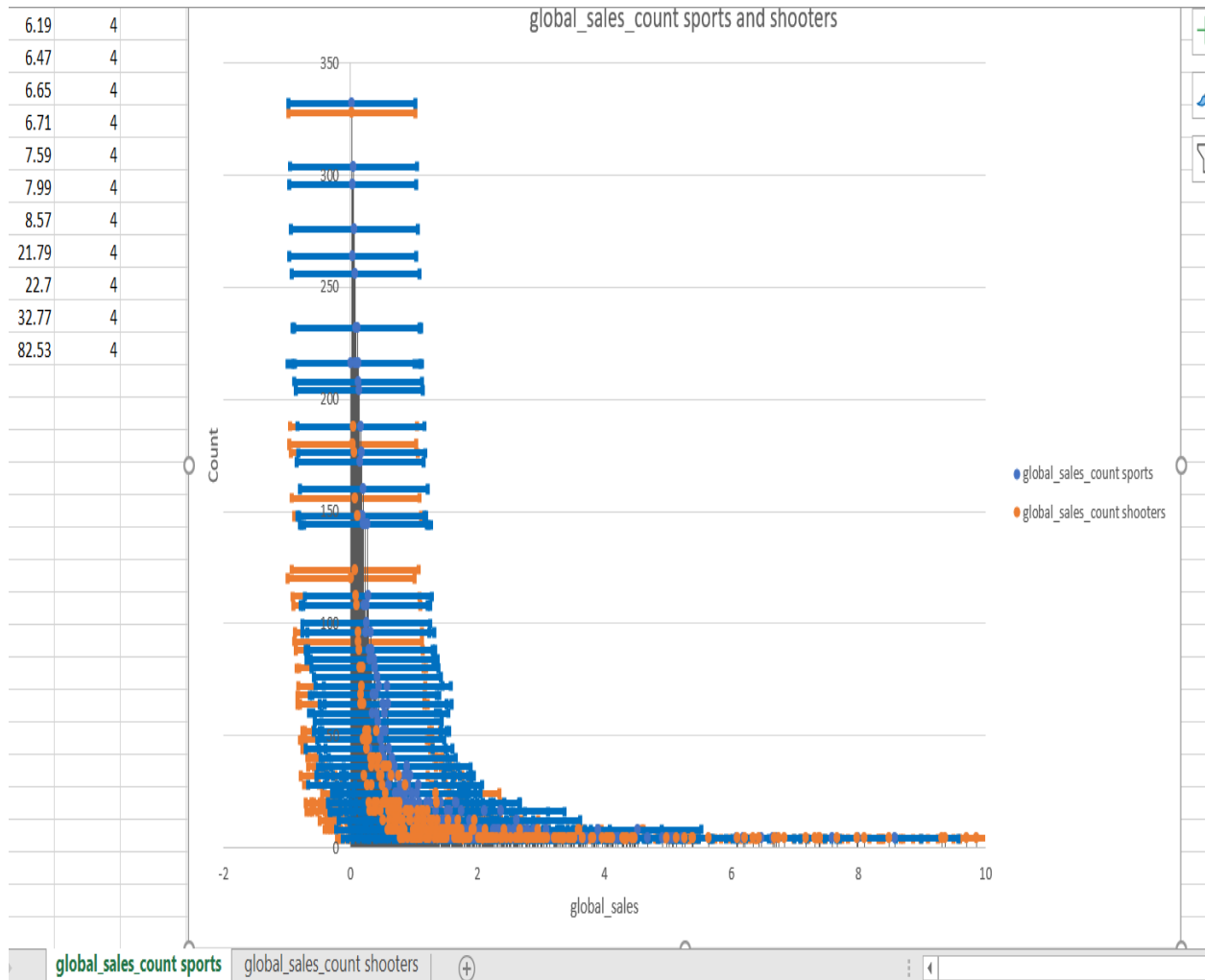


Global_sales-count shooters

Global_sales	count				
0.01	120				
0.02	328				
0.03	180				
0.04	180				
0.05	188				
0.06	176				
0.07	124				
0.08	156				
0.09	112				
0.1	108				
0.11	148				
0.12	92				
0.13	96				
0.14	88				
0.15	80				
0.16	64				
0.17	68				
0.18	72				
0.19	80				
0.2	48				
0.21	64				
0.22	32				
0.23	48				
0.24	52				
0.25	44				
0.26	48				

6.34	4				
6.43	4				
6.68	4				
6.75	4				
6.83	4				
7.17	4				
7.32	4				
7.38	4				
7.39	4				
7.66	4				
7.98	4				
8.09	4				
8.49	4				
9.31	4				
9.36	4				
9.71	4				
9.86	4				
10.25	4				
10.6	4				
12.12	4				
12.63	4				
13.32	4				
13.47	4				
13.67	4				
13.79	4				
14.61	4				
14.63	4				
14.73	4				
28.31	4				
▶	global_sales_count sports		global_sales_count shooters		

global_sale_count sports and shooter comparison chart



Counts for sports and shooter are more or less same trends.

Answer Q2

Average critic score sports	72
Average critic score shooters	70

Chart Title

The donut chart displays two segments: a blue segment representing 'Average critic score sports' and an orange segment representing 'Average critic score shooters'. The blue segment is slightly larger than the orange segment.

■ Average critic score sports
■ Average critic score shooters