Assignment 7

Using the tool of your choice, produce an excellent table showing the data. The table should employ at least one Gestalt principle to clearly present the data relationships.
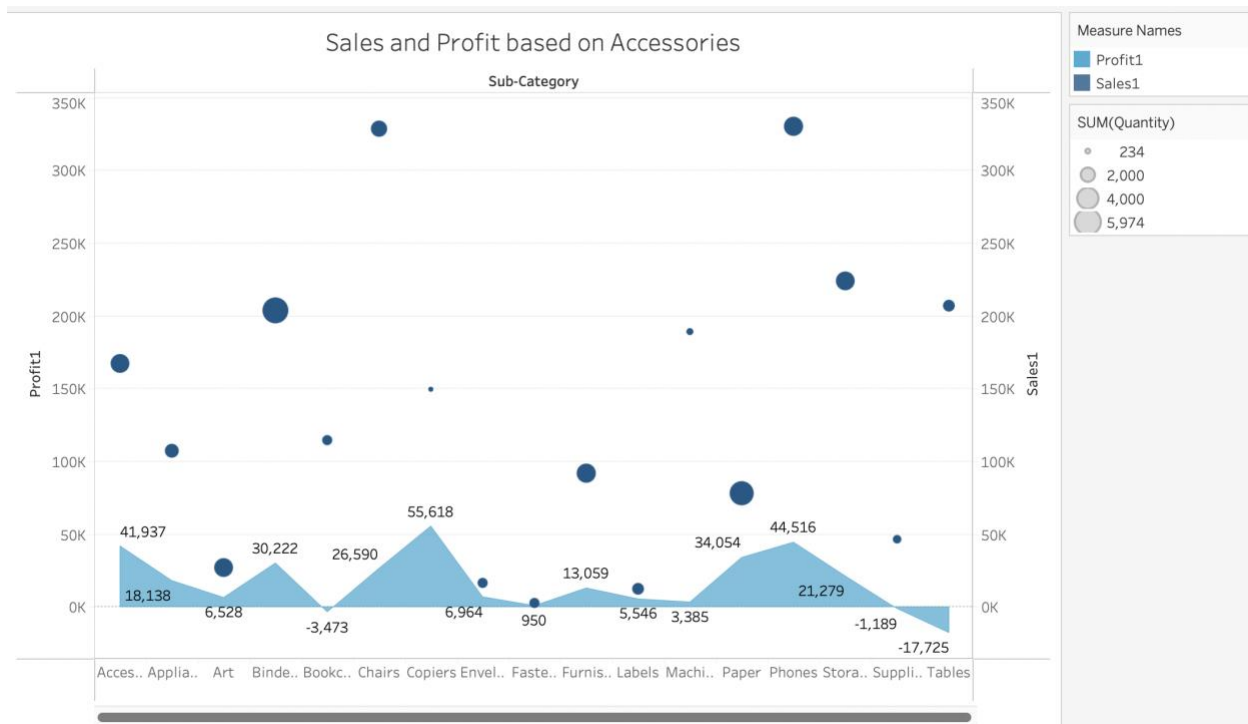
Profit on Accesories

Order Date

Sub-Category	2014				2015				2016				2017			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Accessories	1,125	1,038	1,686	2,554	671	1,238	3,099	5,189	1,036	1,685	2,585	4,358	2,292	2,576	6,335	4,470
Appliances	-252	960	321	1,431	-39	-523	694	2,380	498	522	1,219	3,064	1,709	1,445	2,245	2,467
Art	173	407	312	514	169	323	408	585	170	365	407	472	293	579	716	633
Binders	634	2,162	2,319	-375	5,235	3,373	273	-1,285	1,134	-1,643	236	10,489	1,669	2,720	5,480	-2,199
Bookcases	-468	-214	311	25	-602	-280	-1,705	-168	-106	416	-116	18	193	109	8	-894
Chairs	1,403	1,072	1,872	2,608	570	968	2,131	2,559	365	1,601	915	2,882	1,079	1,271	2,422	2,872
Copiers		465	1,587	861	1,858	2,242	1,601	4,229	120	1,565	3,896	12,162	10,566	1,050	1,528	11,888
Envelopes	200	316	295	684	285	354	514	808	451	193	683	739	352	247	246	597
Fasteners	10	28	75	65	28	18	45	81	29	54	80	131	35	19	97	154
Furnishings	184	352	1,105	332	324	1,057	861	810	683	360	737	2,156	350	937	1,234	1,578
Labels	104	344	277	561	368	172	313	470	62	263	357	510	127	326	890	403
Machines	-1,255	-142	-2,626	4,393	-734	927	2,045	739	4,969	4,581	-162	-6,480	906	-1,167	256	-2,864
Paper	663	912	1,813	2,983	1,000	956	1,794	2,820	1,219	2,913	2,219	2,720	2,082	2,442	3,483	4,034
Phones	1,909	3,263	2,277	4,359	823	1,552	4,210	3,813	1,195	2,713	1,789	3,762	2,050	2,102	3,192	5,505
Storage	693	543	1,181	1,749	746	690	1,434	635	1,009	1,154	1,205	2,837	813	2,018	1,294	3,278
Supplies	10	107	393	-19	19	41	-114	29	-575	-57	61	-127	-149	107	-971	58
Tables	-1,321	-409	-392	-1,002	-1,457	-919	-748	-386	-816	-295	-289	-1,552	-859	-1,283	-1,468	-4,530

The Gestalt Law of Proximity: The spacing between the columns makes it noticeable that specific years have been grouped together.

Gestalt Law of Enclosure: When there is a gap separating the column quarter indicators and the numerical data, we tend to interpret them as singular entity.
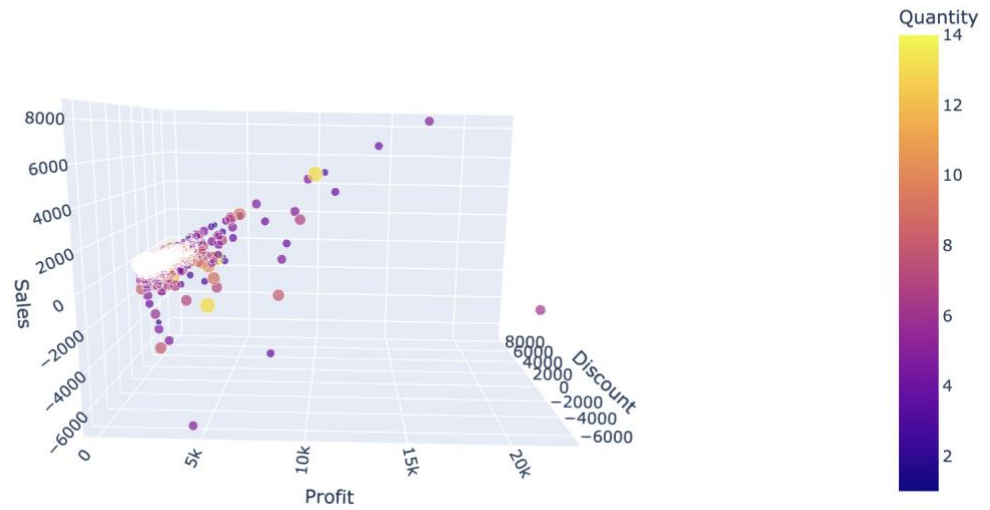
Gestalt Law of Similarity: By highlighting negative numbers in red, they become more distinct and easily distinguishable from positive numbers.

Next, using the tool of your choice, create a chart that clearly shows at least three dimensions of data.

Sales and Profit based on Accessories

The graph shows sales and profit of each product in the store. The area represents the profit incurred and circles represent the sales of each product. The size of the circles represent the quantity customers have bought indicating that lot of accessories have been sold where the circle is larger.

Scatter Plot of Sales & Profit

The above graph is an interactive scatter plot where x axis is profit, y axis is Sales and z axis is discount. The color of the circle indicate the quantity bought by the customers. This helps to view data over multiple variables and relate one with the other.