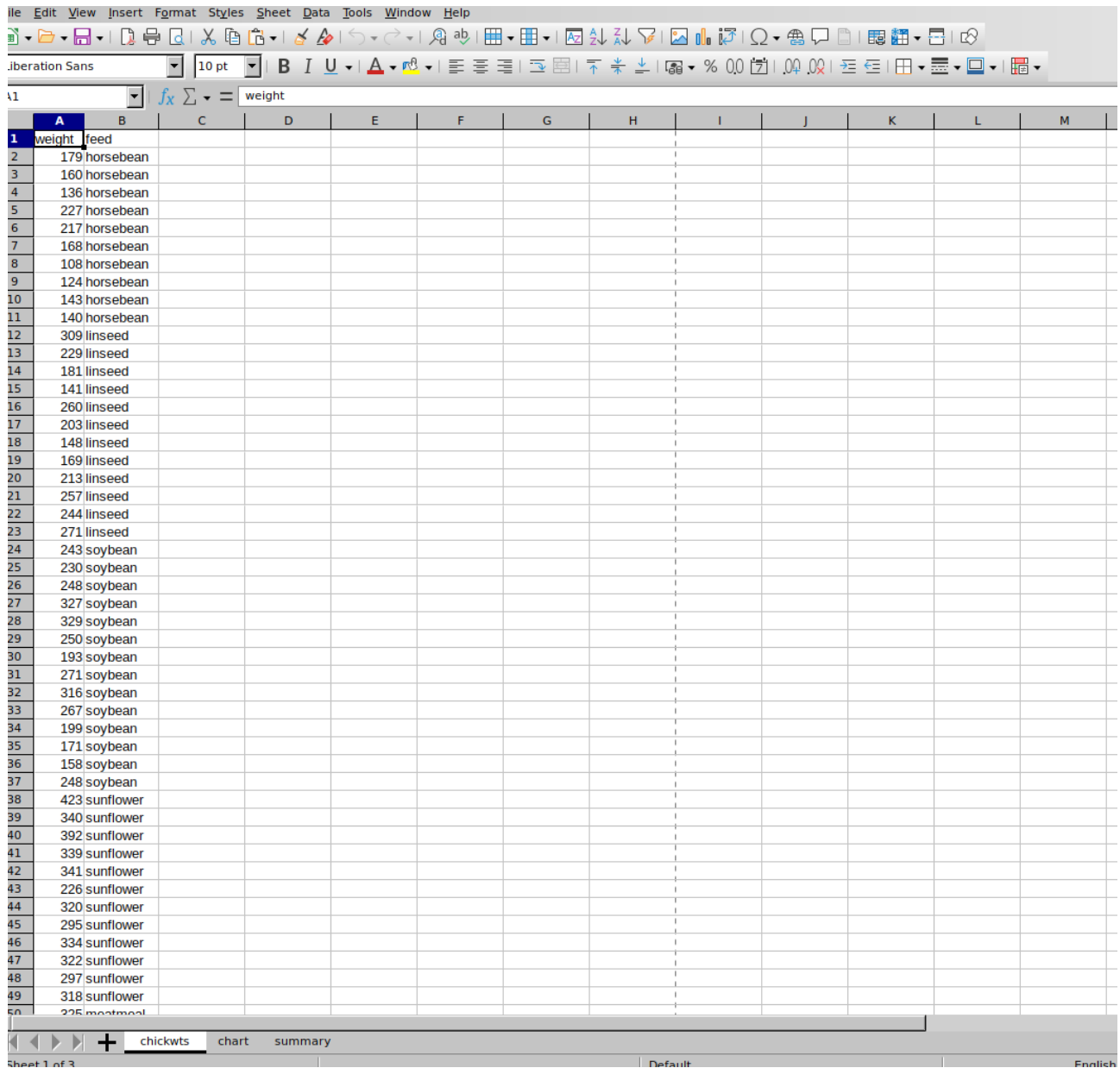


## Problem1:

Imagine you see yourself as the next Harland Sanders (founder of KFC) and want to learn about the poultry business at a much earlier age than Mr. Sanders did. You want to figure out what kind of feed can help grow healthier chickens. The dataset can be found here: <https://github.com/bforoura/IDS>



The screenshot shows a spreadsheet application with a menu bar (File, Edit, View, Insert, Format, Styles, Sheet, Data, Tools, Window, Help) and a toolbar. The spreadsheet has columns A through M and rows 1 through 50. The data is organized into three groups: horsebean, linseed, and soybean, each with 10 rows. The first column (A) contains the weight of the chicken, and the second column (B) contains the feed type. The third column (C) is empty. The spreadsheet is titled 'weight' and the active sheet is 'chickwts'.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	weight	feed											
2	179	horsebean											
3	160	horsebean											
4	136	horsebean											
5	227	horsebean											
6	217	horsebean											
7	168	horsebean											
8	108	horsebean											
9	124	horsebean											
10	143	horsebean											
11	140	horsebean											
12	309	linseed											
13	229	linseed											
14	181	linseed											
15	141	linseed											
16	260	linseed											
17	203	linseed											
18	148	linseed											
19	169	linseed											
20	213	linseed											
21	257	linseed											
22	244	linseed											
23	271	linseed											
24	243	soybean											
25	230	soybean											
26	248	soybean											
27	327	soybean											
28	329	soybean											
29	250	soybean											
30	193	soybean											
31	271	soybean											
32	316	soybean											
33	267	soybean											
34	199	soybean											
35	171	soybean											
36	158	soybean											
37	248	soybean											
38	423	sunflower											
39	340	sunflower											
40	392	sunflower											
41	339	sunflower											
42	341	sunflower											
43	226	sunflower											
44	320	sunflower											
45	295	sunflower											
46	334	sunflower											
47	322	sunflower											
48	297	sunflower											
49	318	sunflower											
50	225	sunflower											

Figure: 1.1 Data

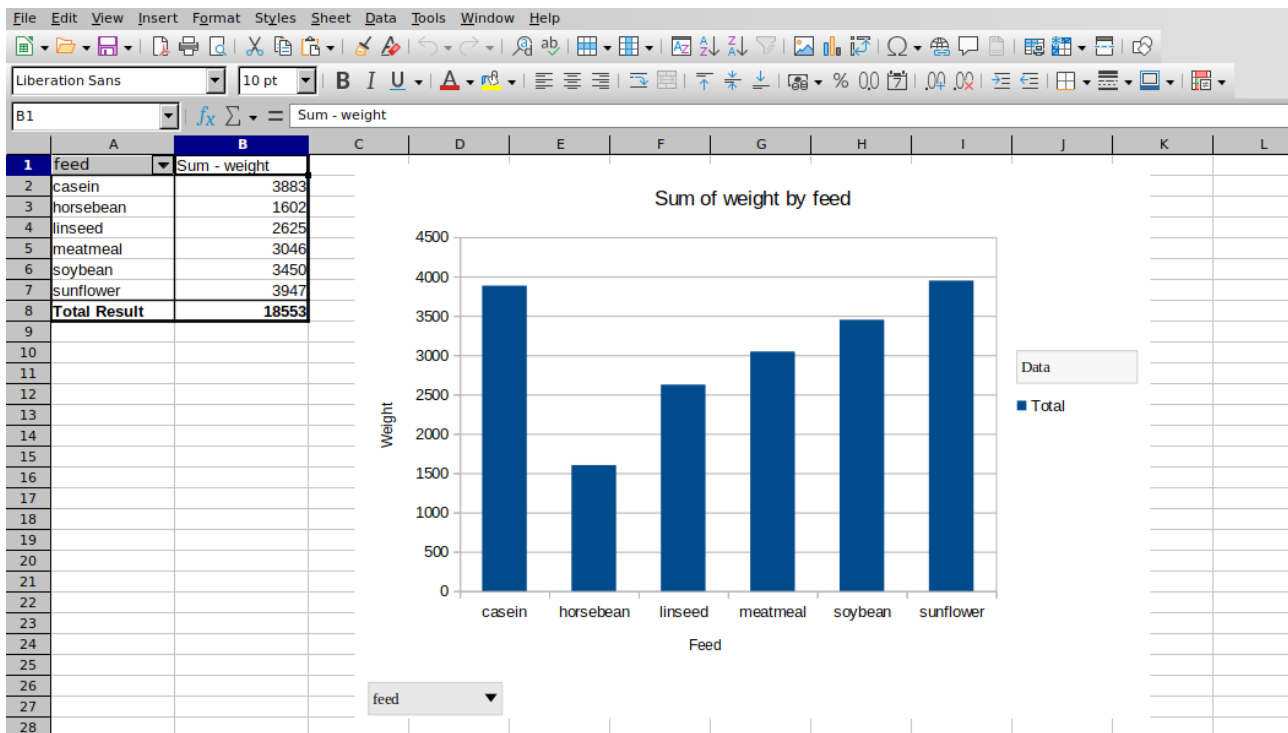


Figure: 1.2 Chart

Table:Summary of chicken weights according to the food type				
feed	Min - weight	Average - weight	Max - weight	
casein	216	323.583333333333	404	
horsebean	108	160.2	227	
linseed	141	218.75	309	
meatmeal	153	276.909090909091	380	
soybean	158	246.428571428571	329	
sunflower	226	328.916666666667	423	
<b>Total Result</b>	<b>108</b>	<b>261.30985915493</b>	<b>423</b>	

Figure: 1.2 Summary

### Finding:

**Q1: Based on the chicken feed data, which type of chicken food appears the most beneficial for a thriving poultry business? Explain your answer.**

Ans: Sunflower chicken is consisting a higher weight than any other feed. And its average weight is also higher than others, So sunflower will be most beneficial for a thriving poultry business.

**Problem 2:** The following table contains an imaginary dataset of auto insurance providers and their ratings as provided by the latest three customers.

Liberation Sans 10 pt B I U A				
B1 Insurance provider				
	A	B	C	D
1	#	Insurance provider	Rating (out of 10)	
2	1	GEICO	4.7	
3	2	GEICO	8.3	
4	3	GEICO	9.2	
5	4	Progressive	7.4	
6	5	Progressive	6.7	
7	6	Progressive	8.9	
8	7	USAA	3.8	
9	8	USAA	6.3	
10	9	USAA	8.1	
11				

Figure: 2.1 Data

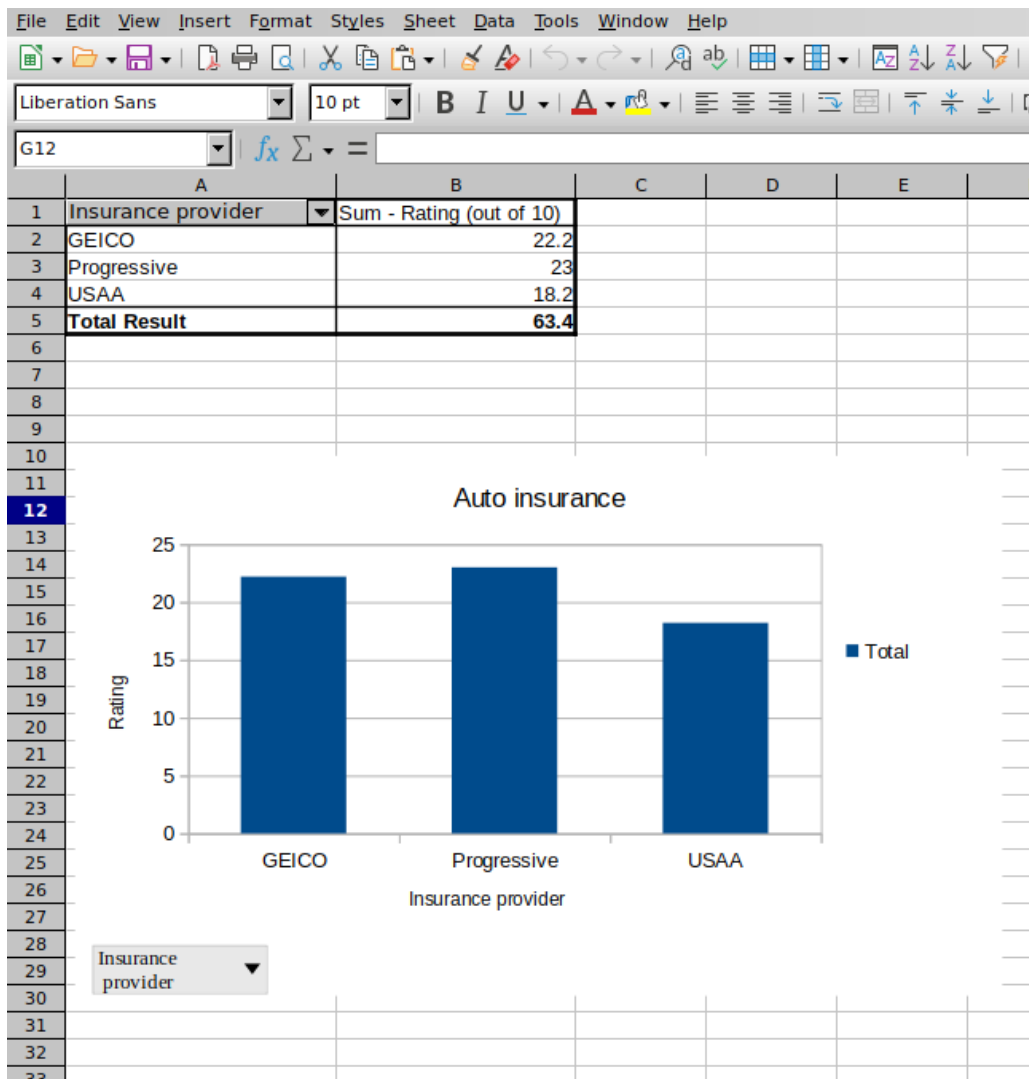


Figure: 2.2 Chart

File Edit View Insert Format Styles Sheet Data Tools Window Help				
Liberation Sans 10 pt B I U A % 0.0 0.0				
F3 fx Σ =				
	A	B	C	D
1	<b>Table: Summary of insurance provider ratings</b>			
2		Data		
3	Insurance provider	Min - Rating (out of 10)	Average - Rating (out of 10)	Max - Rating (out of 10)
4	GEICO	4.7	7.4	9.2
5	Progressive	6.7	7.66666666666667	8.9
6	USAA	3.8	6.06666666666667	8.1
7	Total Result	3.8	7.04444444444444	9.2
8				
9				
10				
11				

Figure: 2.3 Summary

**Q 2: Determine if you had to choose an auto insurance provider based on these ratings, which one you would opt for. Explain your answer.**

**Ans:** I will choose a progressive insurance provider because its overall performance is much better than others. In the given data, it seems that GEICO insurance provider is giving tough competition to progressive insurance and the max rating of GEICO insurance provider is higher than the progressive insurance provider, but GEICO's minimum rating is very low or less than half of the total rating. while the average rating of the progressive insurance provider is greater than GEICO.