A Comparison of Three Ice Cream Flavors using ANOVA Analysis

Attributes			Significance	Attributes			Significance	Attributes			Significance
Quality	product 1	product 2	0.000	Lots_flavor	product 1	product 2	0.000	Surprise	product 1	product 2	0.000
		product 3	0.114			product 3	0.007			product 3	0.000
	product 2	product 1	0.000		product 2	product 1	0.000		product 2	product 1	0.000
		product 3	0.000			product 3	0.002			product 3	0.000
	product 3	product 1	0.114		product 3	product 1	0.007		product 3	product 1	0.000
		product 2	0.000			product 2	0.002			product 2	0.000
Creamy	product 1	product 2	0.000		product 1	product 2	0.000	Liking	product 1	product 2	0.000
		product 3	0.004			product 3	0.002			product 3	0.000
	product 2	product 1	0.000	Unusual_flavor	product 2	product 1	0.000		product 2	product 1	0.000
		product 3	0.000	Chastal_havor		product 3	0.000			product 3	0.000
	product 3	product 1	0.004		product 3	product 1	0.002		product 3	product 1	0.000
		product 2	0.000			product 2	0.000			product 2	0.000
Sweet	product 1	product 2	0.083	Sweet_savory	product 1	product 2	0.000	Recommend	product 1	product 2	0.000
		product 3	0.811			product 3	0.005			product 3	0.000
	product 2	product 1	0.083		product 2	product 1	0.000		product 2	product 1	0.000
		product 3	0.278			product 3	0.000			product 3	0.000
	product 3	product 1	0.811		product 3	product 1	0.005		product 3	product 1	0.000
		product 2	0.278			product 2	0.000			product 2	0.000
Unique	product 1	product 2	0.000		product 1	product 2	0.000	Purchaseintent	product 1	product 2	0.000
		product 3	0.000			product 3	0.002			product 3	0.002
	product 2	product 1	0.000	Appealing	product 2	product 1	0.000		product 2	product 1	0.000
		product 3	0.994	Дрреанну		product 3	0.000			product 3	0.000
	product 3	product 1	0.000		product 3	product 1	0.002		product 3	product 1	0.002
		product 2	0.994			product 2	0.000			product 2	0.000

- Besides the attributes Tastes like it has quality ingredients and Is a unique flavor I couldn't find elsewhere, all other qualities are statistically different between all three products
- None of the three products are statistically significant on the attribute, Is Sweet, indicating
 that there are no significant differences in sweetness between the three products

Attributes	T		Means
	\langle	product 1	5.09
Quality	Г	product 2	2.94
	Г	product 3	4.55
		product 1	5.44
Creamy	Г	product 2	3.20
	Г	product 3	4.60
	\langle	product 1	5.04
Sweet		product 2	4.57
		product 3	4.91
	\langle	product 1	5.89
Unique	Г	product 2	4.35
		product 3	4.32
	\langle	product 1	5.30
Lots_flavor	Г	product 2	3.71
		product 3	4.57
	\langle	product 1	5.22
Unusual_flavor	Г	product 2	2.94
		product 3	4.36
	<	product 1	5.46
Sweet_savory		product 2	3.16
		product 3	4.70
	\langle	product 1	5.31
Appealing	Г	product 2	3.04
		product 3	4.47
	\langle	product 1	5.37
Surprise	ſ	product 2	3.00
		product 3	4.32
	\langle	product 1	5.50
Liking		product 2	2.86
		product 3	4.26
	\langle	product 1	5.28
Recommend	Γ	product 2	3.04
		product 3	4.34
	\langle	product 1	5.46
Purchaseintent	Γ	product 2	3.27
	r	product 3	4.57

Product ONE should be added to the company's product line

- As indicated in the chart to the right, product one performed the best on every attribute based on mean value scores
 - It is the most appealing product across all attributes
- Product one is also a unique flavor that cannot be found anywhere else
 - As indicated in the chart below, there is no difference between products two and three on the unique flavor attribute, but there is a statistical difference between products one and two and products one and three, meaning that product one is unique

product 1	product 2	0.000	
product	product 3	0.000	
nroduct 2	product 1	0.000	
product 2	product 3	0.994	
product 2	product 1	0.000	
product 3	product 2	0.994	
	product 2 product 3	product 1 product 3 product 1 product 3 product 3 product 3 product 1	

 Since the company is wanting to add a flavor that is both appealing and unique, then they should add product one as it fulfills both of these needs