Model : K-means Clustering

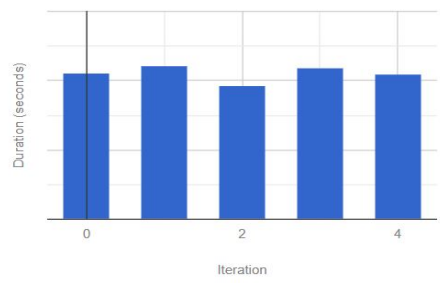
#NUMBER_CLUSTERS = 7

```
CREATE MODEL`bads7105-313104.Supermarketdata.Supermarketdata_CLUSTERS7`
OPTIONS( MODEL_TYPE='KMEANS',NUM_CLUSTERS=7,KMEANS_INIT_METHOD='RANDOM')
AS SELECT*FROM`bads7105-313104.Supermarketdata.Supermarketdata`
```

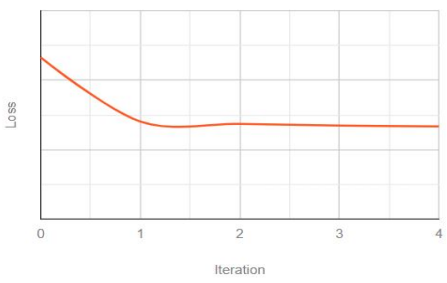
Result :

Iteration	Training Data Loss	Duration (seconds)	Cluster Centroid Id	Cluster Radius
4	13.3460	10.47	1	3.48593323
			2	3.48090924
			3	3.5755612
			4	3.50052116
			5	6.20529996
			6	3.4123286
			7	3.56375382
3	13.4729	10.94	1	3.50582445
			2	3.49085413
			3	3.5745115
			4	3.51155222
			5	5.9226082
			6	3.43973858
			7	3.57991749
2	13.7079	9.64	1	3.53710079
			2	3.52032899
			3	3.5933729
			4	3.5114554
			5	5.64718037
			6	3.50697226
			7	3.59536691
1	14.0500	11.11	1	3.57837108
			2	3.6466858
			3	3.63074521
			4	3.50453992
			5	5.45495681

Duration (seconds)



Loss



Metrics

Davies–Bouldin index	3.4054
Mean squared distance	13.346

Numeric features

This table shows the centroid value for each feature. Use the select menu to view more numeric features.

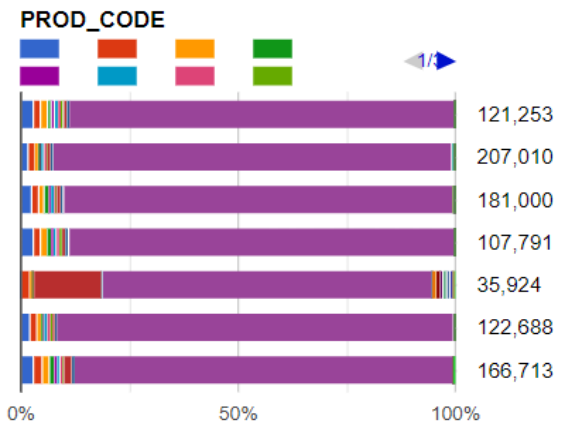
Selected Features
BASKET_ID, QUANTITY, SHOP_DATE, SHOP_HOUR, SHOP_WEEK, SHOP_WEEKD...

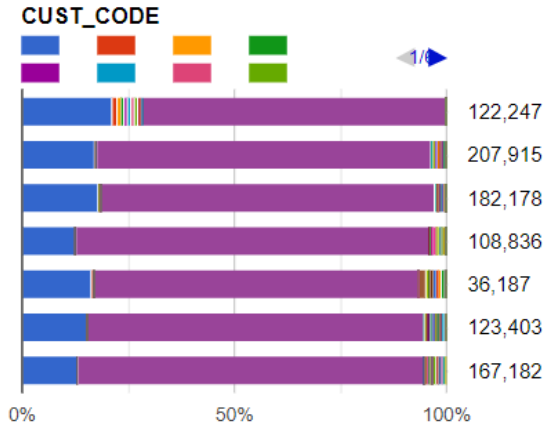
Centroid Id	Count	BASKET_ID	QUANTITY	SHOP_DATE
1	122,655	0.0000	1.3403	
2	208,655	0.0000	1.3012	
3	183,186	0.0000	1.3129	
4	110,616	0.0000	1.3647	
5	37,648	0.0000	5.6228	
6	123,922	0.0000	1.3551	
7	169,892	0.0000	1.2365	

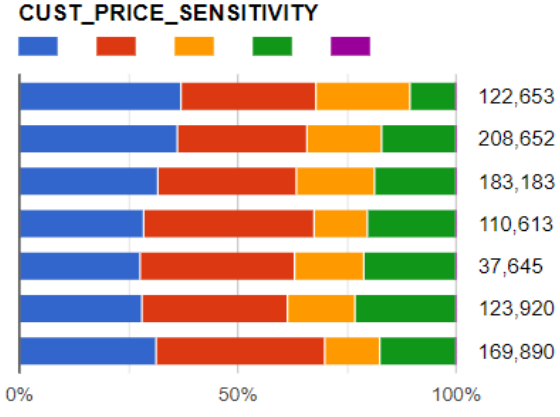
Categorical features

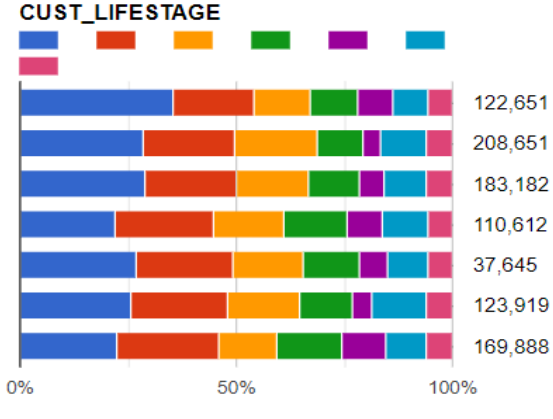
Each chart below shows the category value distribution for a particular feature. Use the select menu to view more categorical features.

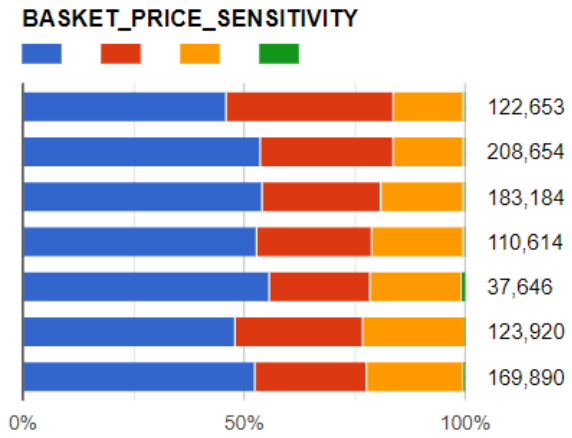
Selected Features
10 options selected

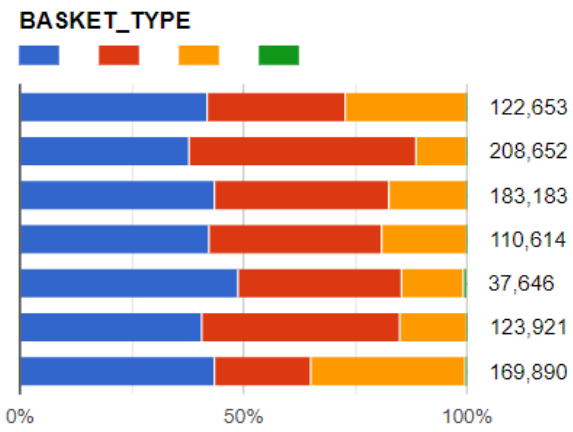









BASKET_PRICE_SENSITIVITY
122,653
208,654
183,184
110,614
37,646
123,920
169,890
0%
50%
100%


BASKET_TYPE
122,653
208,652
183,183
110,614
37,646
123,921
169,890
0%
50%
100%