

ZOMATO's EXPLORATORY DATA ANALYSIS

Importing the Dataset

```
dataframe = importZomatoData("zomato.csv")
```

```
dataframe = 9551x21 table
```

	RestaurantID	RestaurantName	CountryCode	City	Address	Locality
1	6317637	"Le Petit Souffle"	162	Makati City	"Third Floor...	Century City ...
2	6304287	"Izakaya Kikufuji"	162	Makati City	"Little Toky...	Little Tokyo,...
3	6300002	"Heat - Edsa Shangri-La"	162	Mandaluyon...	"Edsa Shangr...	Edsa Shangri-...
4	6318506	"Ooma"	162	Mandaluyon...	"Third Floor...	SM Megamall, ...
5	6314302	"Sambo Kojin"	162	Mandaluyon...	"Third Floor...	SM Megamall, ...
6	18189371	"Din Tai Fung"	162	Mandaluyon...	"Ground Floo...	SM Megamall, ...
7	6300781	"Buffet 101"	162	Pasay City	"Building K,...	SM by the Bay...
8	6301290	"Vikings"	162	Pasay City	"Building B,...	SM by the Bay...
9	6300010	"Spiral - Sofitel Ph...	162	Pasay City	"Plaza Level...	Sofitel Phili...
10	6314987	"Locavore"	162	Pasig City	"Brixton Tec...	Kapitolyo
11	6309903	"Silantro Fil-Mex"	162	Pasig City	"75 East Cap...	Kapitolyo
12	6309455	"Mad Mark's Creamery...	162	Pasig City	"23 East Cap...	Kapitolyo
13	6318433	"Silantro Fil-Mex"	162	Quezon City	"Second Floo...	UP Town Cente...
14	6310470	"Guevarra's"	162	San Juan C...	"387 P. Guev...	Addition Hills

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Converting into Categorical Arrays

```
dataframe.RestaurantName = categorical(dataframe.RestaurantName);  
dataframe.Cuisines = categorical(dataframe.Cuisines);  
dataframe
```

```
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```

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City with the Highest Number of Orders

```
City_high_num_Order = groupcounts(dataframe, "City");
City_high_num_Order = sortrows(City_high_num_Order, 'GroupCount', 'descend')
```

City_high_num_Order = 141×3 table

	City	GroupCount	Percent
1	New Delhi	5473	57.3029
2	Gurgaon	1118	11.7056
3	Noida	1080	11.3077
4	Faridabad	251	2.6280
5	Ghaziabad	25	0.2618
6	Ahmedabad	21	0.2199
7	Amritsar	21	0.2199
8	Bhubaneshwar	21	0.2199
9	Guwahati	21	0.2199
10	Lucknow	21	0.2199
11	Abu Dhabi	20	0.2094
12	Agra	20	0.2094
13	Albany	20	0.2094
14	Allahabad	20	0.2094

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```
dataframe_NewDelhi = dataframe(dataframe.City == 'New Delhi',:)
```

dataframe_NewDelhi = 5473×21 table

...

	RestaurantID	RestaurantName	CountryCode	City	Address	Locality
1	18287358	Food Cloud	1	New Delhi	"Aaya Nagar,...	Aaya Nagar
2	18216944	Burger.in	1	New Delhi	"84, Near Ho...	Adchini
3	313333	Days of the Raj	1	New Delhi	"81/3, 1st F...	Adchini
4	18384127	Dilli Ka Dhaba	1	New Delhi	"66 A, Groun...	Adchini
5	582	Govardhan	1	New Delhi	"84, Adjacen...	Adchini
6	18414465	Mezbaan Grills	1	New Delhi	"A- 96, Shri...	Adchini
7	304243	Say Cheese	1	New Delhi	"88/3, Adchi...	Adchini
8	3554	Southy	1	New Delhi	"88/4, Adchi...	Adchini
9	18369872	Monosoz	1	New Delhi	"Sri Aurobin...	Adchini
10	948	Waves	1	New Delhi	"A-4, Sarvod...	Adchini
11	2853	Delhi Darbar	1	New Delhi	"84, Main Ro...	Adchini
12	18433900	Chateau	1	New Delhi	"84, Aurobin...	Adchini
13	18425159	Nariyal Cafe	1	New Delhi	"A-4, 3rd Fo...	Adchini
14	310958	Rustom's Parsi Bhonu	1	New Delhi	"94-A/B, Adc...	Adchini

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According to the data, we can say that, **NEW DELHI** is the city with the highest number of orders (**roughly around 57.3029%**)

Most Ordered Cuisines from the city with highest number of orders

```
Most_Ordered_Cuisines = groupcounts(dataframe_NewDelhi, "Cuisines");
Most_Ordered_Cuisines = sortrows(Most_Ordered_Cuisines, 'GroupCount', 'descend')
```

Most_Ordered_Cuisines = 892x3 table

	Cuisines	GroupCount	Percent
1	North Indian	658	12.0227
2	North Indian,...	284	5.1891
3	Fast Food	242	4.4217
4	Chinese	228	4.1659
5	North Indian,...	207	3.7822
6	Cafe	158	2.8869
7	Street Food	123	2.2474
8	Bakery	122	2.2291
9	North Indian,...	120	2.1926
10	Bakery, Desse...	117	2.1378

	Cuisines	GroupCount	Percent
11	Chinese, Fast...	99	1.8089
12	Pizza, Fast F...	92	1.6810
13	Mithai, Stree...	90	1.6444
14	Mughlai	86	1.5714

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Top 3 most ordered cuisines from **New Delhi** are: -

1. North Indian (approx. 12.02%)
2. A combination of North Indian and Chinese (approx 5.18%)
3. Fast Food (approx. 4.42)

Highest Rated Locality

```
Highest_Rated_Locality = groupcounts(dataframe_NewDelhi, ["Locality", "Cuisines" "AggregateRating", "Votes", "GroupCount", "Percent"])
Highest_Rated_Locality = sortrows(Highest_Rated_Locality, ['AggregateRating'], ['descend'])
```

Highest_Rated_Locality = 5189x6 table

	Locality	Cuisines	AggregateRating	Votes	GroupCount	Percent
1	Connaught Place	Ice Cream	4.9000	2620	1	0.0183
2	Friends Colony	Modern Indian	4.9000	1934	1	0.0183
3	Janpath	Modern Indian	4.9000	408	1	0.0183
4	Rajouri Garden	North Indian	4.8000	83	1	0.0183
5	Connaught Place	Continental, ...	4.7000	52	1	0.0183
6	Connaught Place	North Indian	4.7000	242	1	0.0183
7	Rajouri Garden	Ice Cream	4.7000	474	1	0.0183
8	Satyaniketan	Cafe, Contine...	4.7000	1563	1	0.0183
9	Select Citywa...	Asian, Chines...	4.7000	268	1	0.0183
10	Delhi Univers...	Cafe, Contine...	4.6000	1071	1	0.0183
11	Greater Kaila...	Modern Indian	4.6000	304	1	0.0183
12	Khan Market	Italian, Cont...	4.6000	1569	1	0.0183
13	Punjabi Bagh	North Indian,...	4.6000	61	1	0.0183
14	Rajouri Garden	American, Asi...	4.6000	1691	1	0.0183

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Connaught Place has the highest Aggregate Rating of 4.9

Highest Votes Locality

```
Highest_Votes_Locality = sortrows(Highest_Rated_Locality, 'Votes', 'descend')
```

Highest_Votes_Locality = 5189×6 table

	Locality	Cuisines	AggregateRating	Votes	GroupCount	Percent
1	Hauz Khas Vil...	Continental, ...	4.3000	7931	1	0.0183
2	Connaught Place	South Indian	4.3000	5172	1	0.0183
3	Khan Market	Italian, Cont...	4.5000	4986	1	0.0183
4	Connaught Place	American, Con...	3.7000	4914	1	0.0183
5	Jama Masjid	Mughlai, Nort...	4	4689	1	0.0183
6	Pandara Road ...	North Indian,...	4.4000	4373	1	0.0183
7	Delhi Univers...	Cafe, Mexican...	4.3000	4085	1	0.0183
8	Vijay Nagar	Cafe, Italian...	4.3000	3986	1	0.0183
9	Hauz Khas Vil...	American, Nor...	3.7000	3697	1	0.0183
10	Connaught Place	Bakery, Fast ...	4.3000	3591	1	0.0183
11	Safdarjung	North Indian,...	4.3000	3530	1	0.0183
12	Lodhi Colony	American, Fas...	4.1000	3495	1	0.0183
13	Connaught Place	North Indian,...	3.9000	3413	1	0.0183
14	Satyaniketan	Cafe, Fast Fo...	4.2000	3311	1	0.0183

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Hauz Khas Village has the highest number of votes approx 7931 with an Aggregate Rating of 4.3

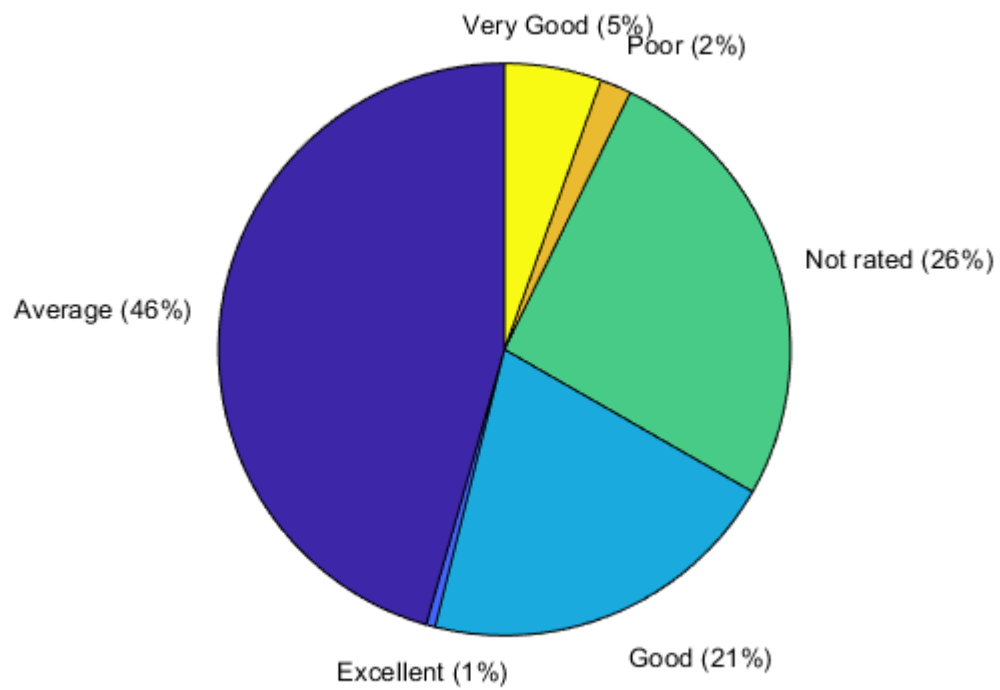
Most Rated Text

```
Most_Rated_Text = groupcounts(dataframe_NewDelhi, "RatingText");
Most_Rated_Text = Most_Rated_Text(~ismissing(Most_Rated_Text.Percent),:);
Most_Rated_Text = sortrows(Most_Rated_Text, 'Percent', 'descend')
```

Most_Rated_Text = 6×3 table

	RatingText	GroupCount	Percent
1	Average	2495	45.5874
2	Not rated	1425	26.0369
3	Good	1128	20.6103
4	Very Good	300	5.4815
5	Poor	97	1.7723
6	Excellent	28	0.5116

```
pie(dataframe_NewDelhi.RatingText)
```



"AVERAGE" is the most rated text in **New Delhi**