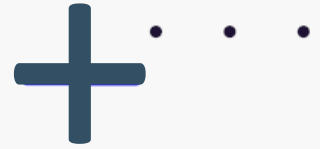


Restaurant Analysis



By Jay Ganesh Charole

Objective

In India, the restaurant industry is booming. Currently, the Indian Restaurant Market is one of the most rapidly expanding in the globe. According to a survey by the National Restaurant Association of India (NRAI), the Indian restaurant industry is predicted to reach INR 5.99 lakh crore by 2022-23, rising at a compounded annual growth rate of 9 percent. Despite the difficulties and problems that restaurant owners have experienced in recent years, operating a restaurant in the near future would open the door to a slew of new chances for aspiring restaurant entrepreneurs.

About Dataset

This dataset contains the data of a renowned restaurant in Mumbai which is famous for Dosa. It has variety of Dosa's in it. In the dataset we have different columns where we have selling price, discount price, categories, quantities, etc.

Also we have one more sheet where sales are been consolidated so that sales and performance analysis can be done.

Tool Stack

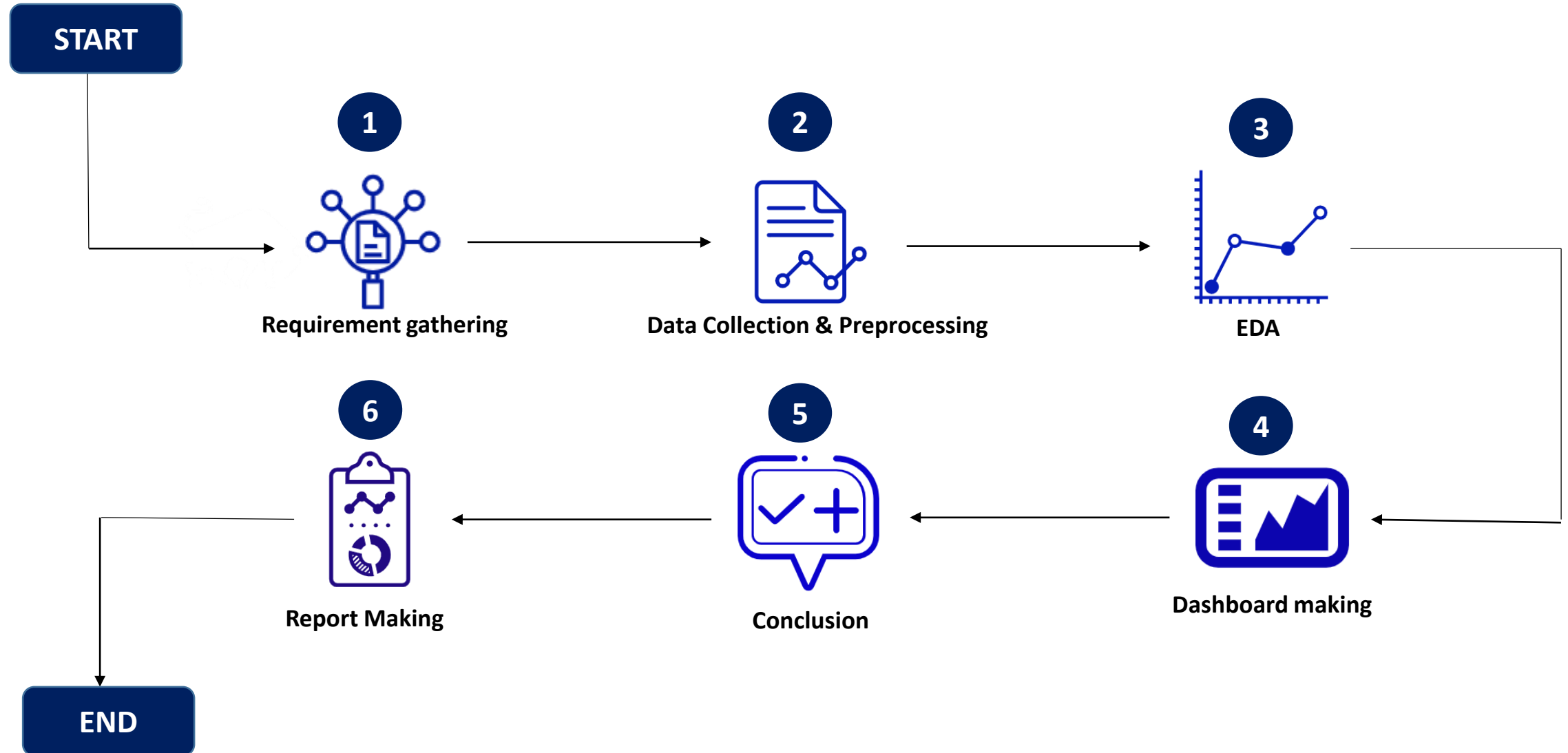


Python is a high-level, interpreted, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation. Python is dynamically-typed and garbage-collected.



Power BI is an interactive data visualization software product developed by Microsoft with a primary focus on business intelligence.

Project Process



Dashboard

RESTAURANT ANALYTICS



Overall Analysis



Sales Analysis



Item name

All

▼



13K

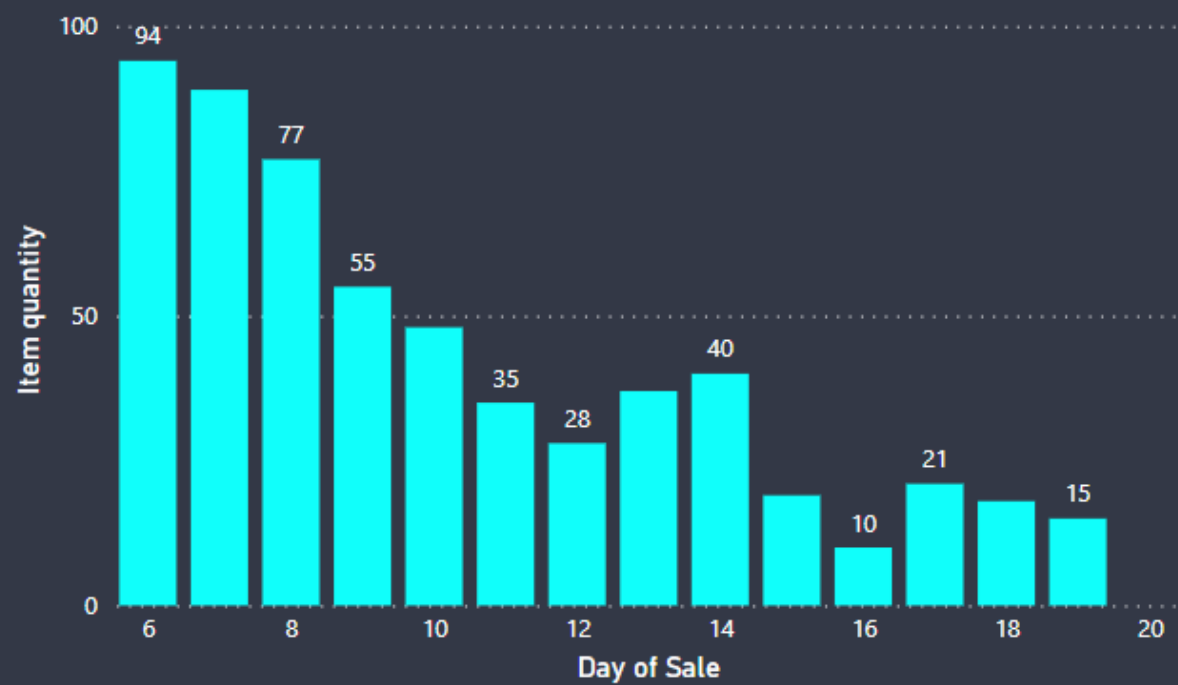
Sales discount amount



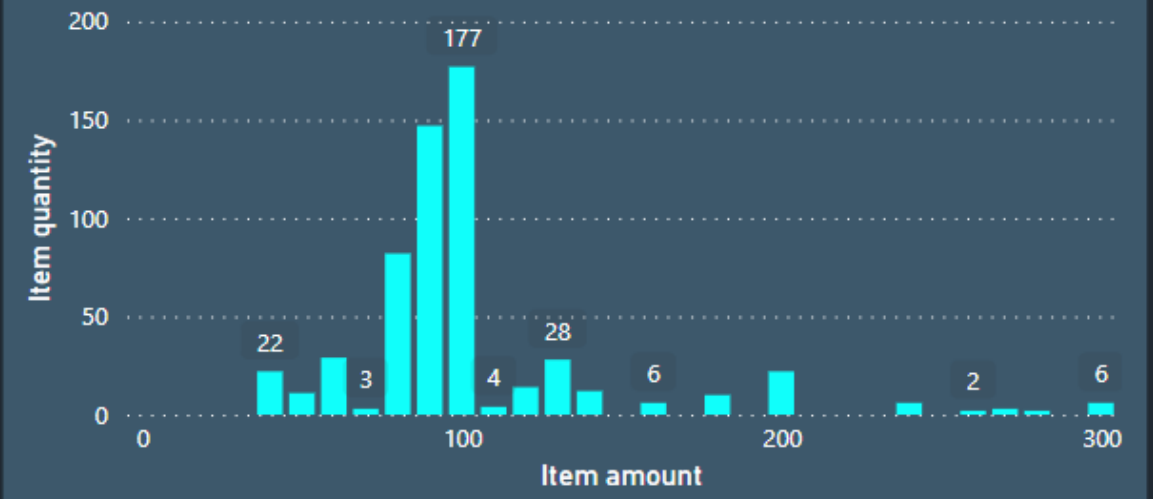
49K

Selling price

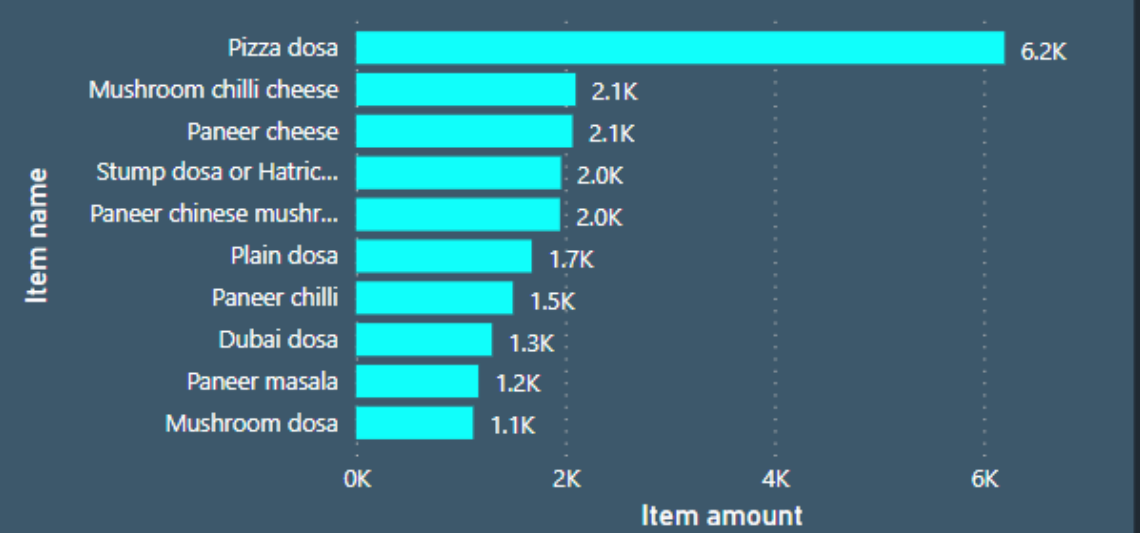
Day Wise Sales of Items




Item quantity by Item amount




Item amount by Item name






105K

Sum of Item amount



1172

Sum of Item quantity



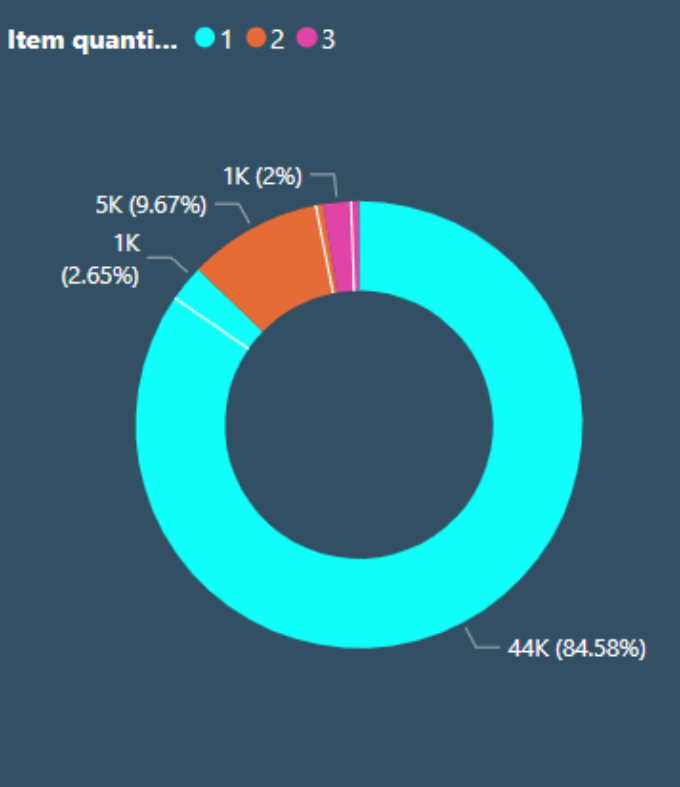
26K

Sum of Sales discount amount

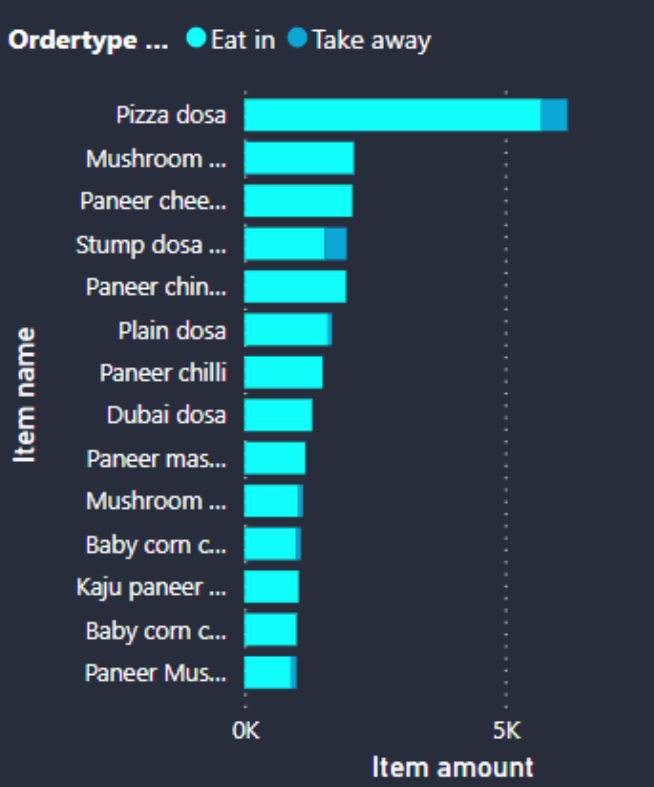
Count of Item quantity, Selling price and Sales discount amount by Item name



Item amount by Item quantity and Ordertype name



Item amount by Item name and Ordertype name

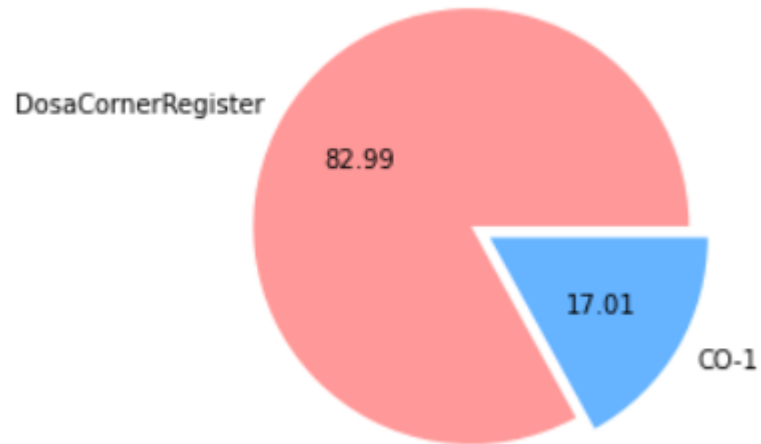


Insights

Important KPI's

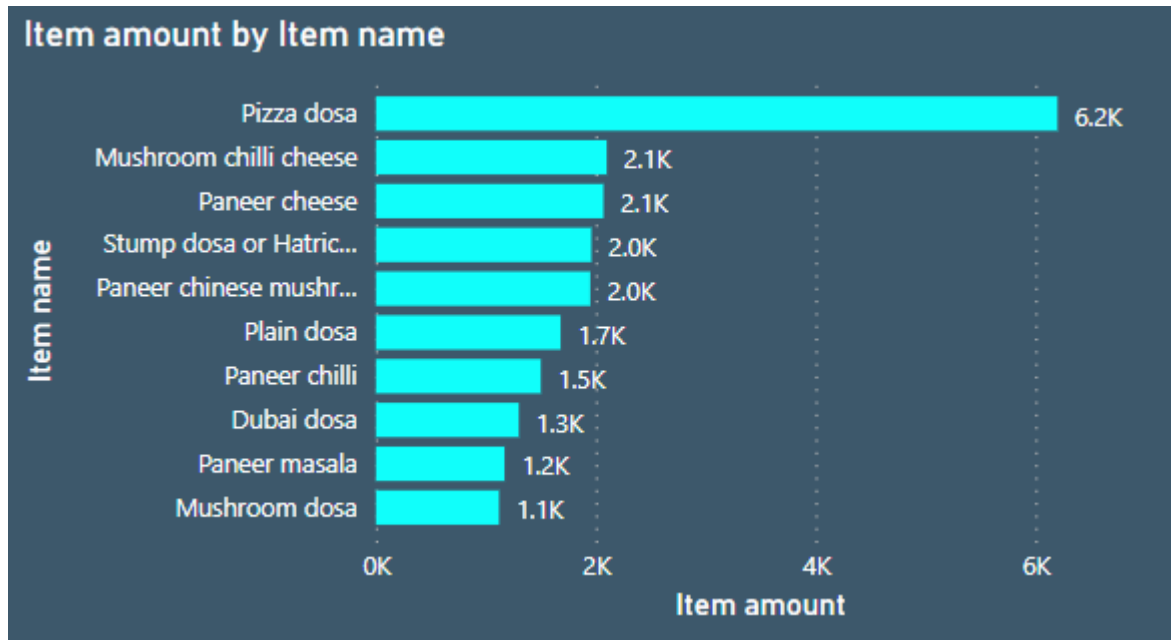
- 1) Minimum Selling Price is worth Rupees 40
- 2) Maximum Selling Price is worth Rupees 140
- 3) Average of selling price of customers is around 90 rupees
- 4) Average discount amount is 24.34 rupees.
- 5) Total Sales discount is around 13K.
- 6) Total Selling Price is around 49K.
- 7) Total Quantity sold in particular date is 1172.

Distribution of Dosa Center



Almost 83% of the data is register to DosaCornerRegister which is almost half of the customers AND 17% of the data is Registered with CO-1

Analysis of Item being sold



The above bar chart shows Most ordered Item names. Among all Pizza Dosa is the most ordered item. Followed by Mushroom Chilli Cheese.

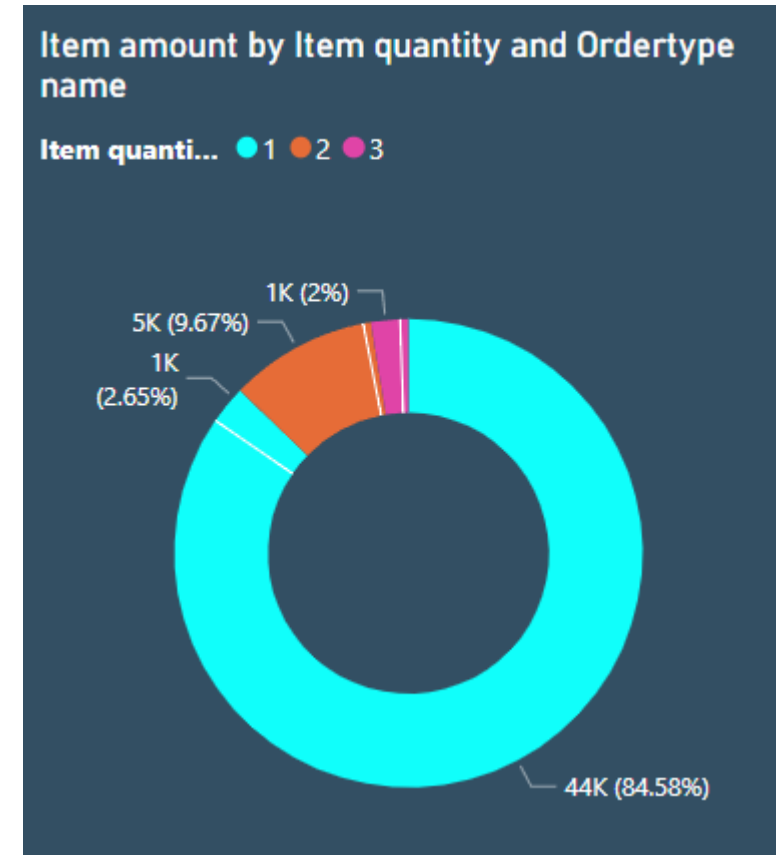
Analysis of Item sold according to Quantity and Sales



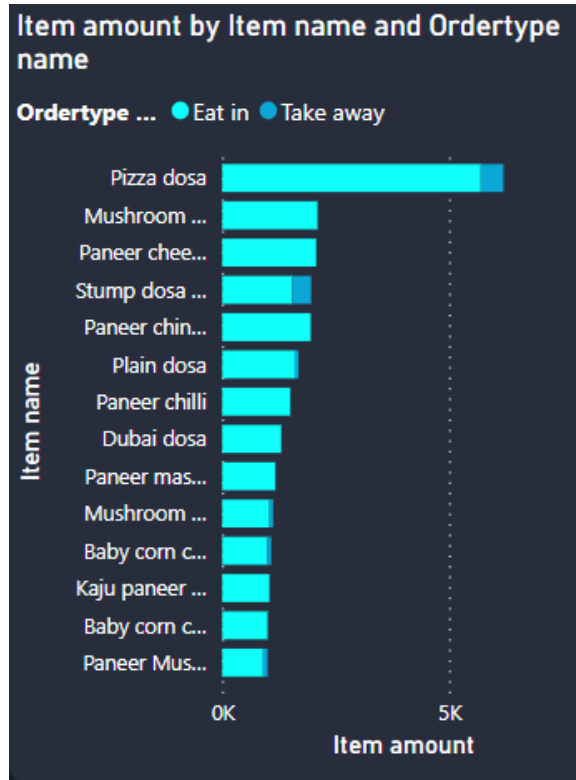
According to selling price, Pizza Dosa and Plain Dosa followed by Paneer Cheese is bought at max level.

Quantity Wise Analysis

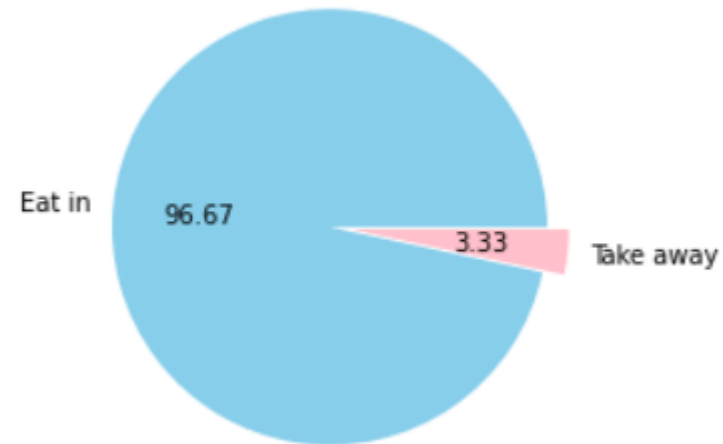
From the visual we understand that mostly people order only one quantity.



Order Type Analysis

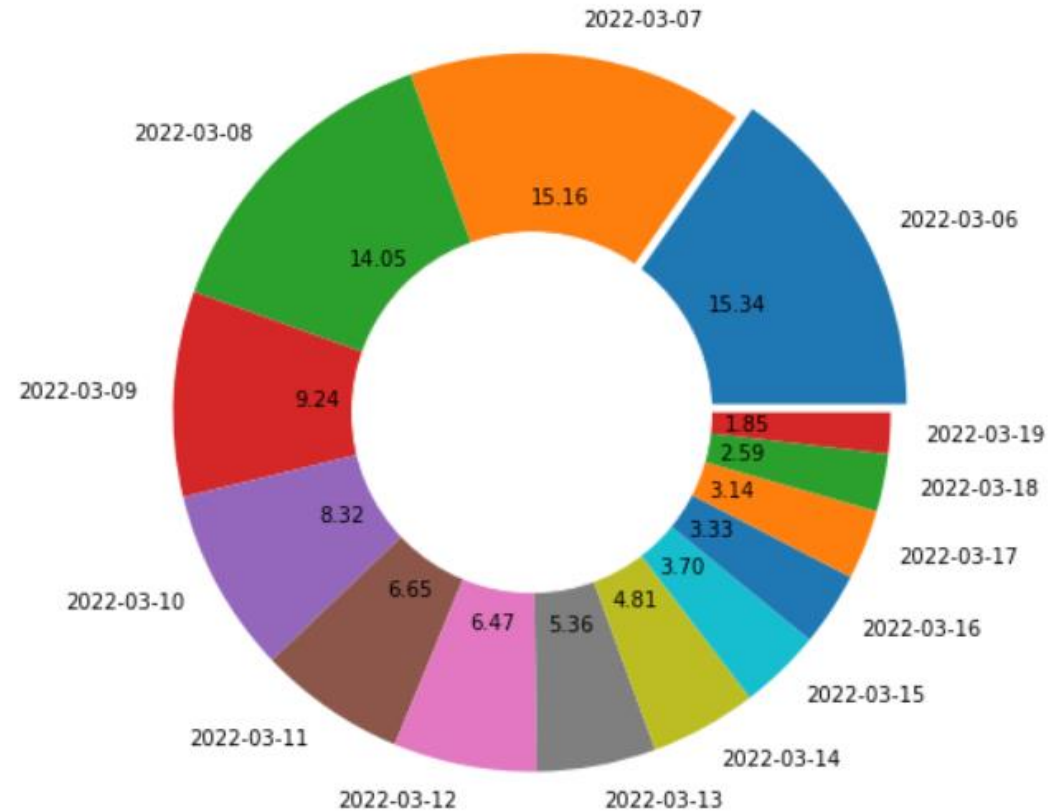


From the visual we clearly understand that many of the customers do “Eat in” and very less do “Take away”.



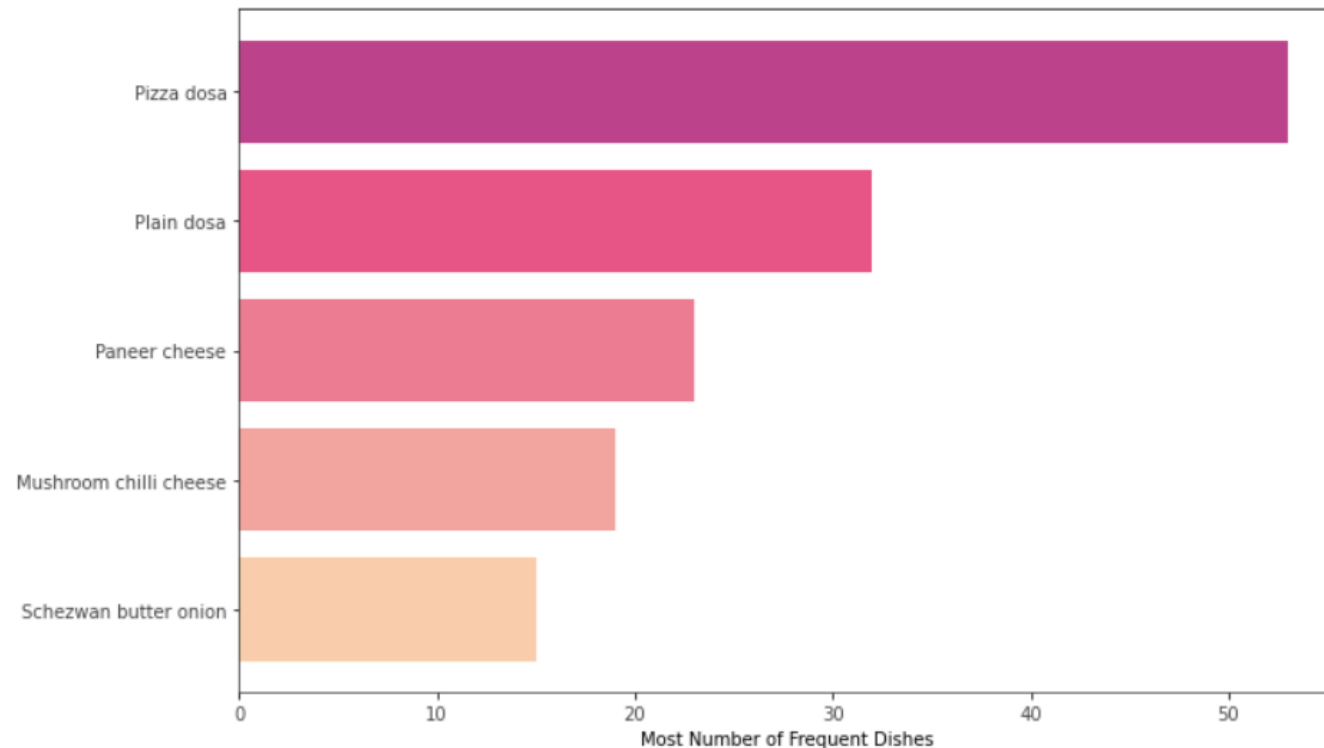
Almost 97% of the Customer has Dine, where as 3% of the Customer has taken away as parcel

Date Wise Analysis



Here we can see that on 06-03-2022 we had 15.34% of customer arrived at the restaurant and just 1.85% of customer arrived at 19-03-2022

Item Wise Analysis



Top 5 No frequent dishes liked and bought by the customer where we can have a look like pizza dosa is haved by more than 50 customers and Schezwaan butter Onion by Less than 20 customers

Item Wise Analysis

Dosa Corner Doubles	78
Dosa Corner Economy	76
Dosa Corner Vintage	68
Dosa Corner Special	56
Dosa Corner Spicy	54
Dosa Corner Single	45
Dosa Corner Masala	42
Dosa Corner Chilli Cheese	36
Dosa Corner Schezwan	30
Dosa Corner Triples	27
Dosa Corner Combo	22
Dosa Corner Kaju	7

Name: Category name, dtype: int64

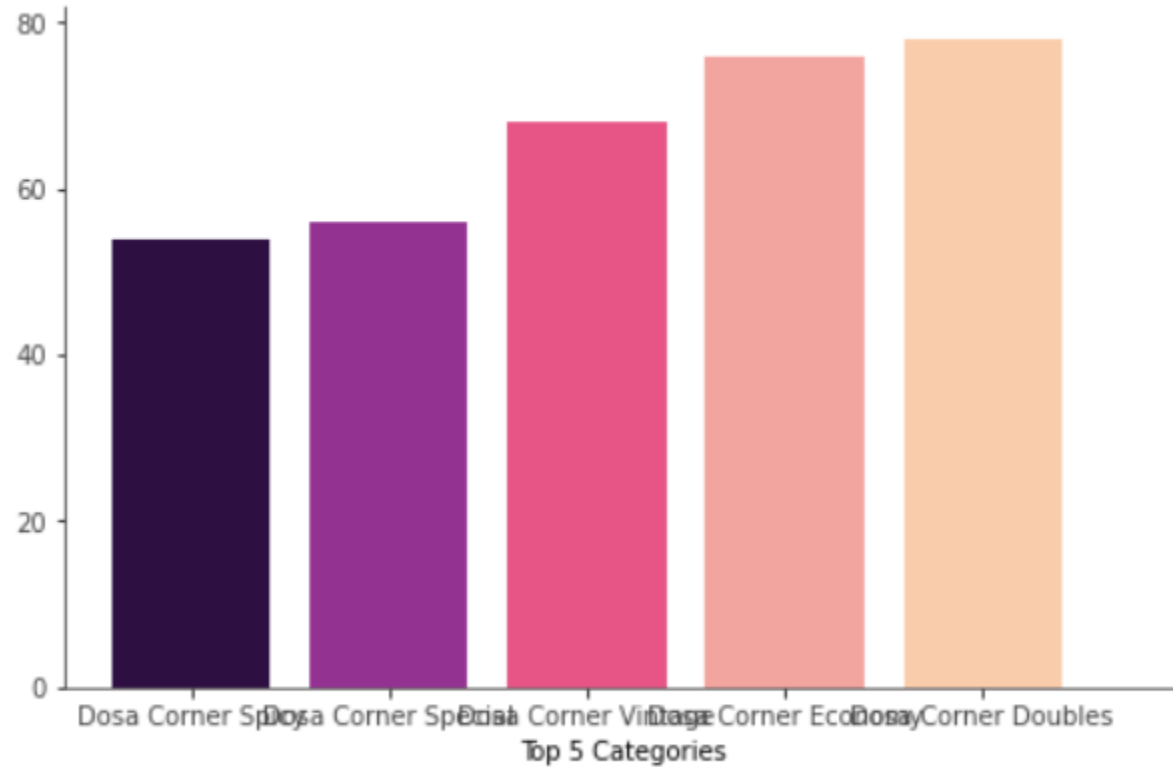
Dosa Corner Doubles is the most popular Category which customer has often bought Items from it

Category Wise Analysis

```
Dosa Corner Spicy      54
Dosa Corner Special    56
Dosa Corner Vintage    68
Dosa Corner Economy    76
Dosa Corner Doubles    78
Name: Category name, dtype: int64
```

Top 5 Categories of the Restaurant which customer has bought Items from it in ascending order

Category Wise Analysis



Top 5 Categories which customers often liked and bought, where Dosa Corner Doubles is the category which has almost 80 customers which bought items from it

Cost Wise Analysis

```
100    186
90     153
80      67
40      32
60      31
130     29
140     13
50      13
120     10
110      4
70       3
Name: Selling price, dtype: int64
```

From this we get to know that most people has bought 100Rs dish and 70Rs dish is been bought by least.

THANK YOU !!