ANALYZE AND VISUALIZE SWIGGY FOOD DELIVERY TIME FOR DIFFERENT CUISINES

INT 200 INTERNSHIP

FINAL REVIEW

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INTRODUCTION

Data visualization helps in presenting billions of data points into meaningful
insights. It is a very important tool for all the data scientists to learn and
understand the data in more details.
Visualization also helps business leaders to take important decisions for
company growth and to move in the right direction.
Consumers are increasingly using food delivery apps (FDAs) to facilitate
convenient and quick food delivery.
Significant popularity that FDAs have gained in both developed and emerging
countries can be attributed to reasons related to their capacity to (a) facilitate
convenient and swift food delivery to customers' doorsteps and (b) provide
restaurants with more opportunities to increase revenue without increasing
restaurants' seating capacities.

PROBLEM STATEMENT

- Future of online food ordering website is bright. Facilities, Comfort,
 User friendliness are the key features of online websites success.
 We often order food from food delivery apps like Zomato, Swiggy.
 - Sometimes it often takes time to deliver the food. There are factors which impact the delivery time of the food.
- ☐ Delivery time for an order is determined by various factors like distance, area, Restaurant rating, etc..

OBJECTIVES

- ☐ Visually analyse the various factors involved in delivery of food to the customer for different cuisines with using Tableau.
- ☐ This Project Specifically analyse it for Swiggy Food Delivery app.

RESEARCH/PRODUCT SURVEY

➤ An Analysis of Online Food Ordering Applications in India: Zomato and Swiggy

https://www.researchgate.net/publication/348880558_An_Analysis_of_Online_Food_Ordering_Applications_in_India_Zomato_and_Swiggy

➤ A Study on Impact of Online Food delivery app on Restaurant Business special reference to zomato and swiggy

http://ijrar.com/upload_issue/ijrar_issue_20542895.pdf

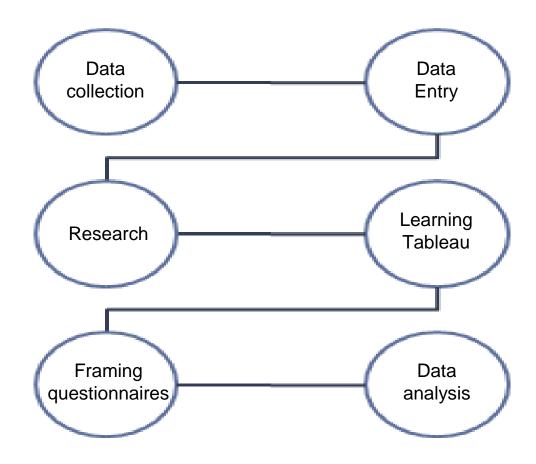
➤ End-to-End Predictive Analysis on Zomato

https://www.analyticsvidhya.com/blog/2021/10/end-to-end-predictive-analysis-on-zomato/

RESEARCH NOTES

- ☐ For newly opened restaurants and restaurants with blank they converted the value to 0.
- ☐ It is important to separate out the independent and dependent variables from all the dataset samples.
- Before we begin to create a model, make sure we have a small dataset to test our model performance.
- □ Addresses & Cuisines are categorical variables that need to be cleaned before encoding.
- □ Rating & Reviews needs to be cleaned and converted to respective types.

WORKFLOW/METHODOLOGY



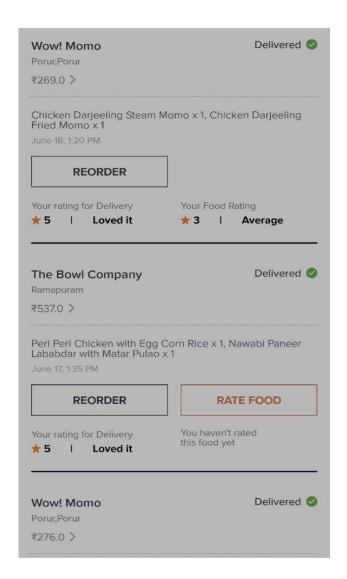
DATASET DETAILS

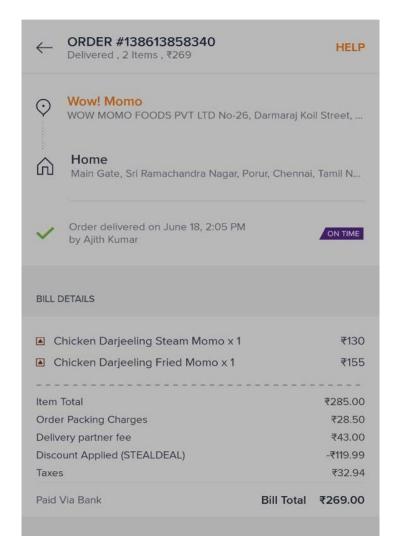
COLUMN NAME	DESCRIPTION
Quantity	The quantity of items in the order.
Item Price	The total price of all items
Packaging Charges	The price for packaging of items.
Delivery Partner Fee	The fee for the delivery partner.
Discount Applied	The amount deducted as discount.
Taxes	The tax charge like GST.
Bill Total	The total amount including the item prices and all the prices after deducting the discount.
Mode Of Payment	The mode in which the price was paid.(cash, UPI etc.)
Order Time	The time at which the order was placed.

COLUMN NAME	DESCRIPTION
Order ID	Unique series of numbers that is given to each order.
Customer ID	Unique series of numbers that is given to each customer.
State	The state from which the order is placed.
Place	The city and district of the state.
Delivery Address	Where the order should be delivered.
Restaurant Name	The restaurant where the order was placed.
Restaurant Address	From where the order should be picked up.(Restaurant location)
Cuisine	The cuisine to which the restaurant belongs.

COLUMN NAME	DESCRIPTON
Delivery Time	The time at which the order was delivered.
Estimated Time (in mins)	The time estimated by the app at which the order will be delivered.
Rating	The rating out of 5 given by the customer about the items they ordered.
Reviews	The review and criticism for the items ordered.

SAMPLE DATA





DATASET COLLECTED

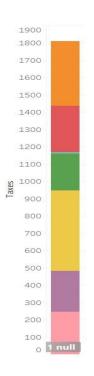
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	#128067320950	A018	Telangana	Hyderabad	500090	Ragavendra residency,Bachupally	R Bawarchi 2	Vengalrao Nagar

Item Name	Cuisine	Quantity	Item price	Packaging chargel	Delivery fee	Discount applied	Delivery Partner fel	Taxes	Bill total
Masala Dosa	South Indian	3	150	0	0	0	20	0	170
Masala Dosa	South Indian	2	157	0	0	0	36	7.85	221
Chicken Biryani Boneless	Indian	1	339	19	0	80	19	14.9	312
Karam Onion Dosa	South Indian	2	260	15	0	0	70	13.75	389
Poori	South Indian	2	163	0	0	0	25	8.15	196
Plain Dosa	South Indian	2	99	0	0	0	38	4.95	142
Chicken Pizza	Italian	1	170	0	0	85	47	0	132
Chicken Biryani Handi	Indian	1	260	0	0	0	37	0	297
Chicken Noodles	Chinese	2	279	0	0	27.9	22	0	273
Vanilla Cake	Desserts	1	395	10	0	0	38	0	443
Chicken Mugalai Biryani	Indian	1	310	0	0	100	20	0	230
Chicken Boneless Biryani	Indian	1	310	0	0	100	10	0	220
Chicken Dum Biryani	Indian	1	200	0	0	120	45	10	135
Chicken Biryani Family Pack	Indian	1	540	0	0	0	47	27	614
Chicken Dum Biryani	Indian	1	250	0	0	50	19	10.5	230
Mixed Zinger Doubles	American	1	308	33	0	50	19	17	328
Chicken Special Biryani	Indian	2	550	0	15	49.99	24	25	550
Chicken Special Biryani	Indian	2	545	0	0	49.99	9	25	529
Special Biryani	Indian	1	270	0	0	0	9	13	293
Chicken Tikka Biryani	Indian	1	459	15	0	0	1	23	499
Chicken Biryani	Indian	2	360	17	0	0	31	18	426

Mode of payment	Ordered time	Delivered time	Estimated time(min)	Food Rating	Reviews F	Delivery Rating	Reviews D
UPI	08:50	09:20	27	4	Good	4	Good
Card	07:29	07:40	23	4	Good	4	Good
Cash	12:25	12:57	32	5	Liked it	3	Average
Cash	07:17	09:17	60	5	Liked it	2	Bad
Cash	09:15	09:36	21	4	Good	5	very Good
UPI	08:18	08:54	36	4	Good	3	Average
UPI	05:43	06:19	34	4	Good	3	Average
UPI	09:17	09:49	32	4	Good	3	Average
Cash	08:09	07:46	37	5	Good	3	Average
Card	11:37	12:05	28	3	Average	4	Good
Cash	08:05	08:29	24	4	Good	4	Good
UPI	12:33	12:59	26	4	Good	4	Good
UPI	07:03	07:50	47	3	Average	2	Bad
Cash	08:39	09:12	33	5	Very Good	3	Average
Cash	07:22	07:48	30	4	Good	3	Average
Cash	07:19	07:50	31	5	Very Good	3	Average
UPI	01:11	01:33	20	5	Very Good	5	Very Good
Cash	11:45	01:28	113	4	Good	1	Very Bad
Cash	09:08	09:36	34	4	Good	3	Average
UPI	08:31	09:07	36	4	Good	3	Average
UPI	07:26	07:57	29	3	Average	4	Good

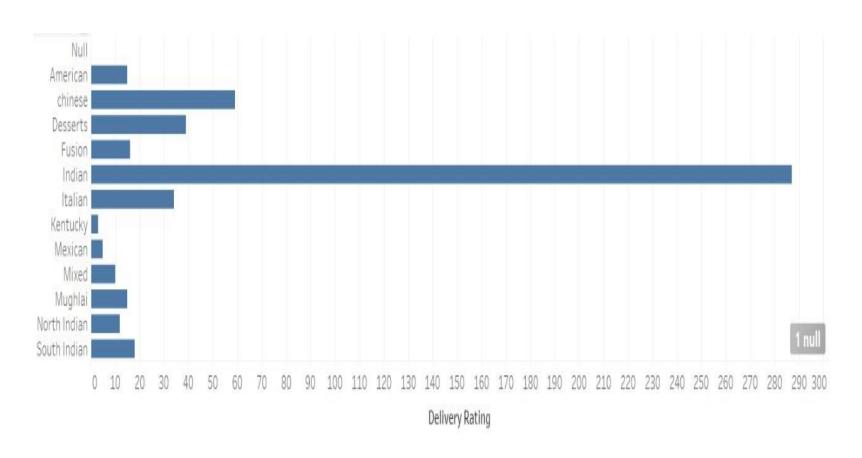
DATA BASED QUESTIONNAIRES

1. Which place collects more taxes compared to other places from the data collected?

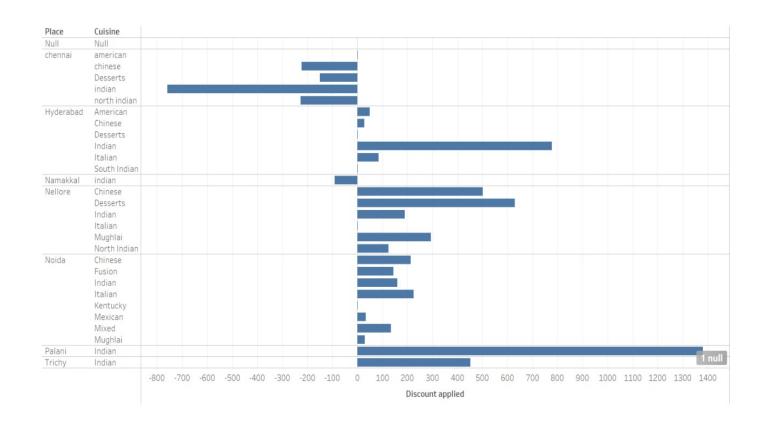




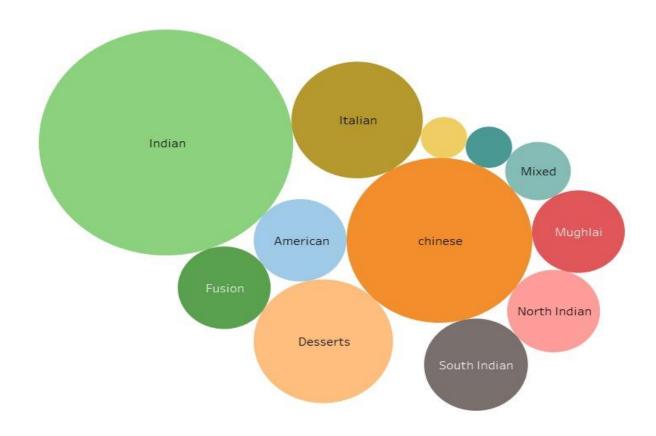
2. Which cuisine got the best delivery rating?



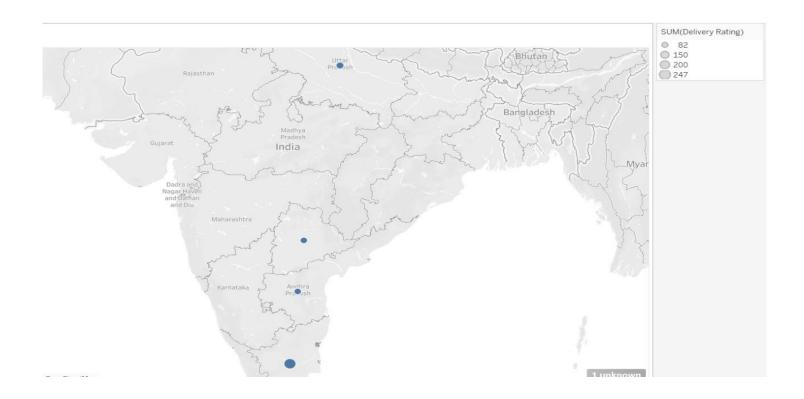
3.In Noida which cuisine got the greatest discount on food?



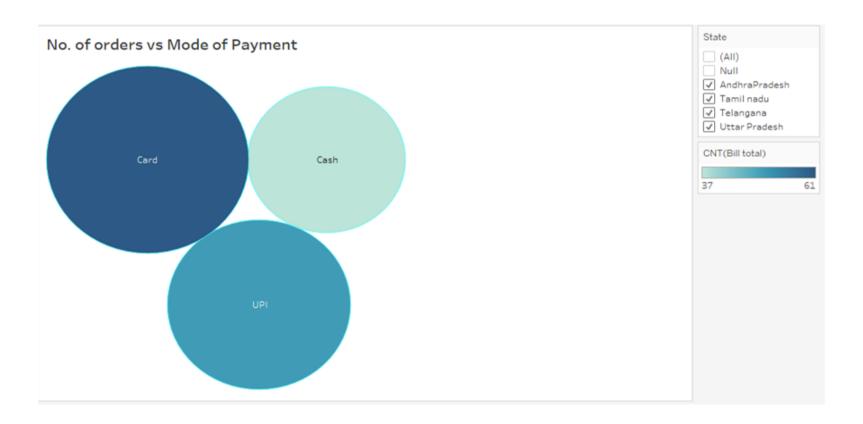
4. Which cuisine took most time to get delivered to the customer?



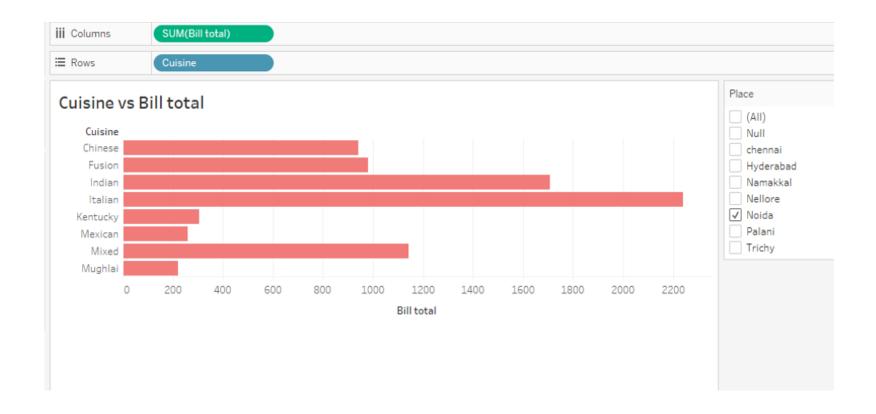
5.Interpret the given graph and tell which place got the best delivery rating?



6. Which is the most used mode of payment overall?



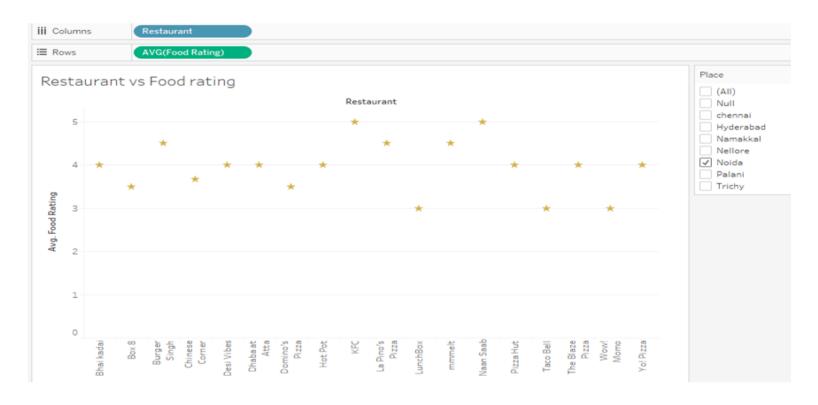
7. Which is the cuisine in which most money was spent in Noida?



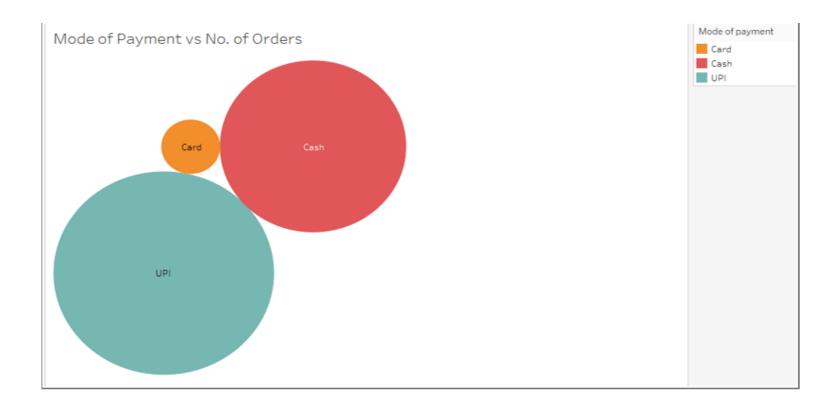
8. Find the Customer ID(s) which ordered the largest quantity of items in the place 'Noida'?



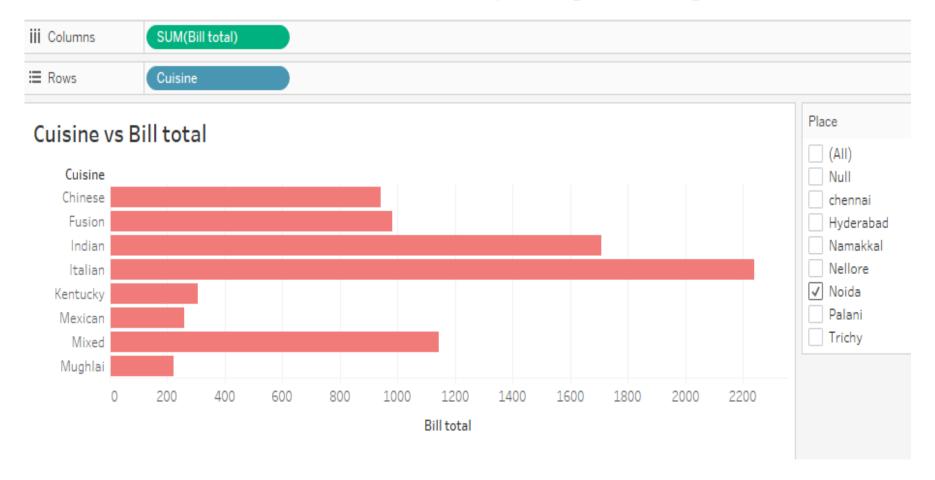
9. Which are the restaurants with highest food rating compared to other restaurants in Noida?



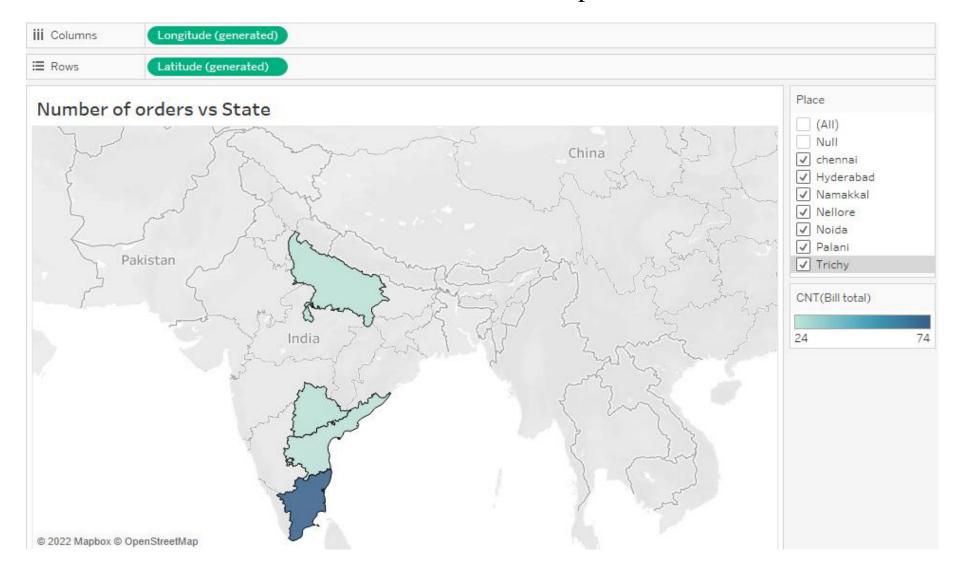
10. Which is the most used mode of payment in Noida?



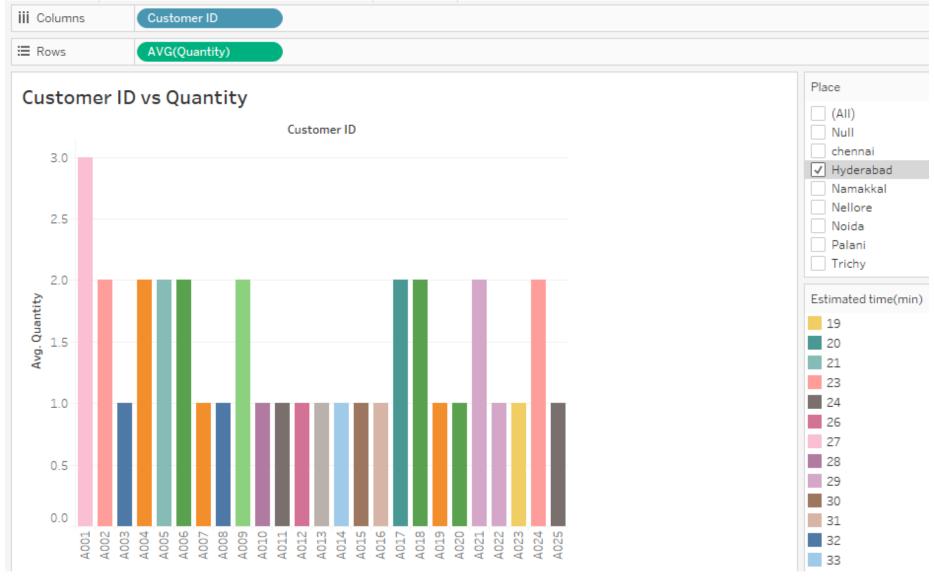
11. Which is the cuisine in which most money was spent in the place 'Noida'?



12.From which state in India were the most orders placed?



13. Find the Customer ID which ordered the largest quantity of items in the place 'Hyderabad'.



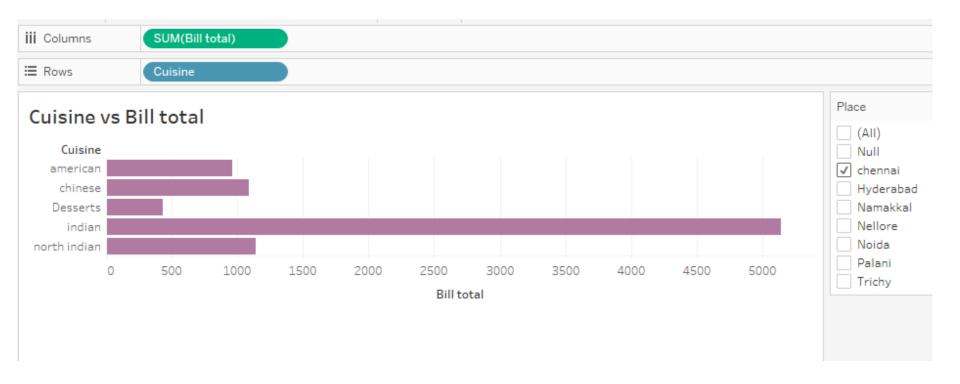
14. Which are the restaurants with the highest food rating compared to other restaurants in 'Uttar Pradesh'?



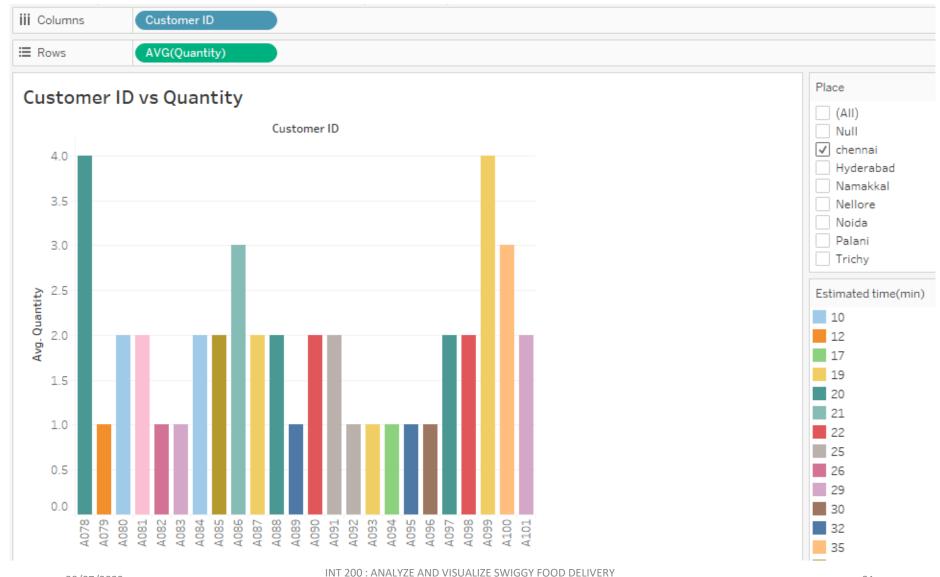
15. Which is the most used mode of payment overall?



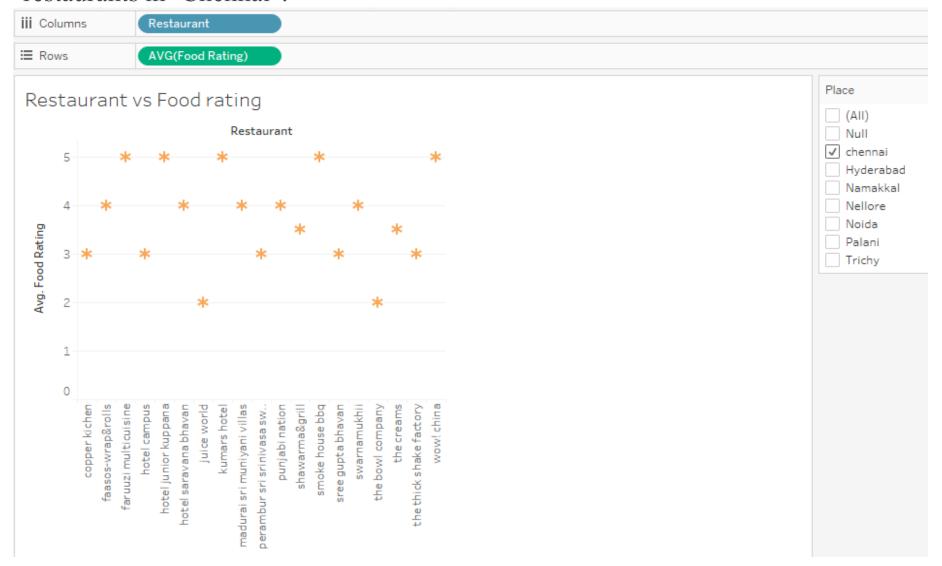
16. Which is the cuisine in which most money was spent in the place 'Chennai'?



17.Find the Customer ID(s) which ordered the largest quantity of items in the place 'Chennai'?



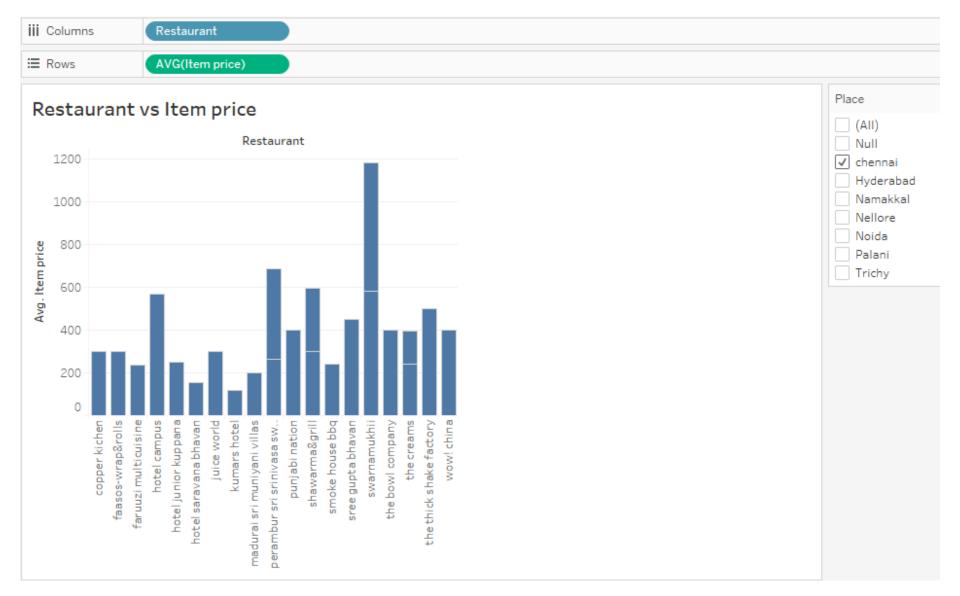
18. Which are the restaurants with the highest food rating compared to other restaurants in 'Chennai'?



19. Which is the most used mode of payment in 'Chennai'?



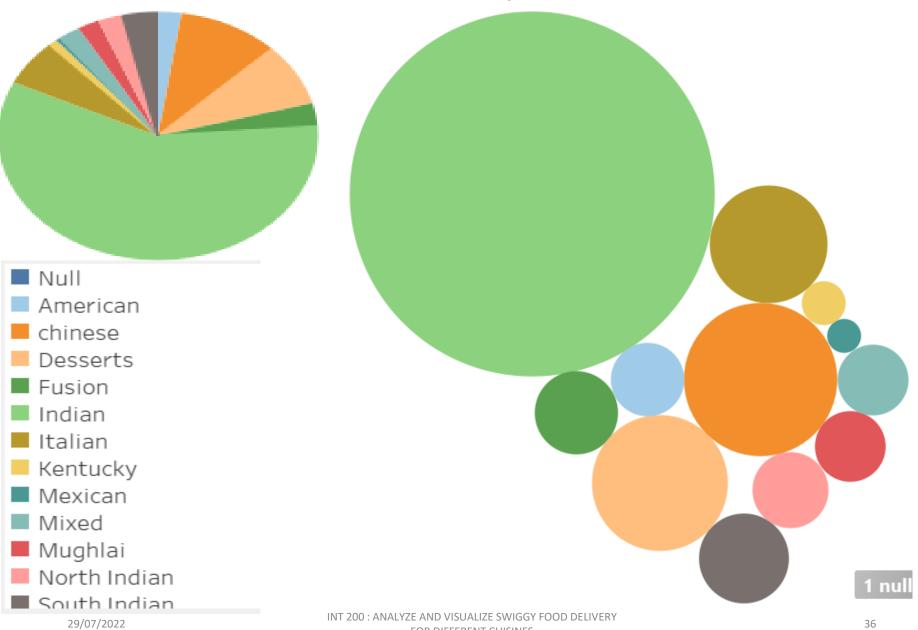
20. Which food item in Chennai is most expensive according to the data collected?



1.which Restaurant has charged highest taxes for the delivery in the data collected?

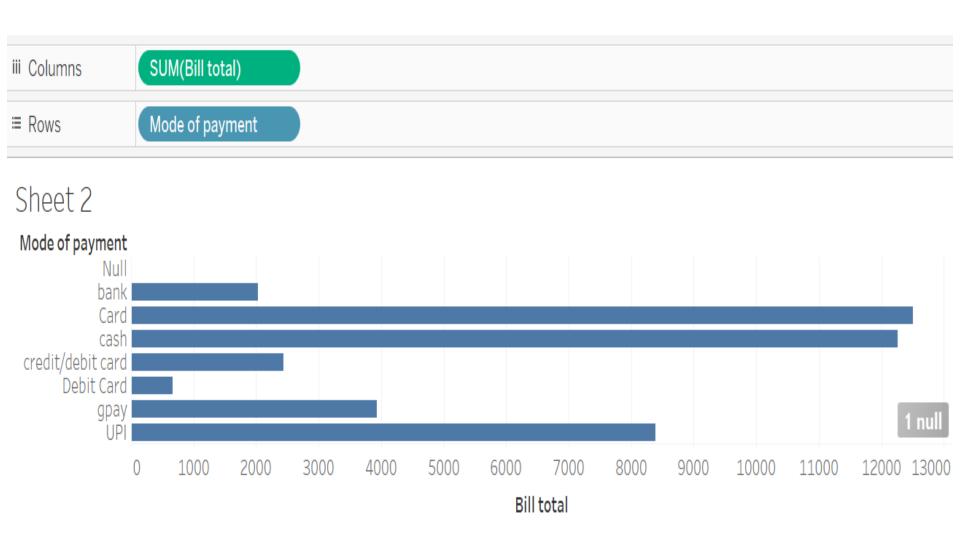


22. which cuisine has the lowest food rating in the dataset?

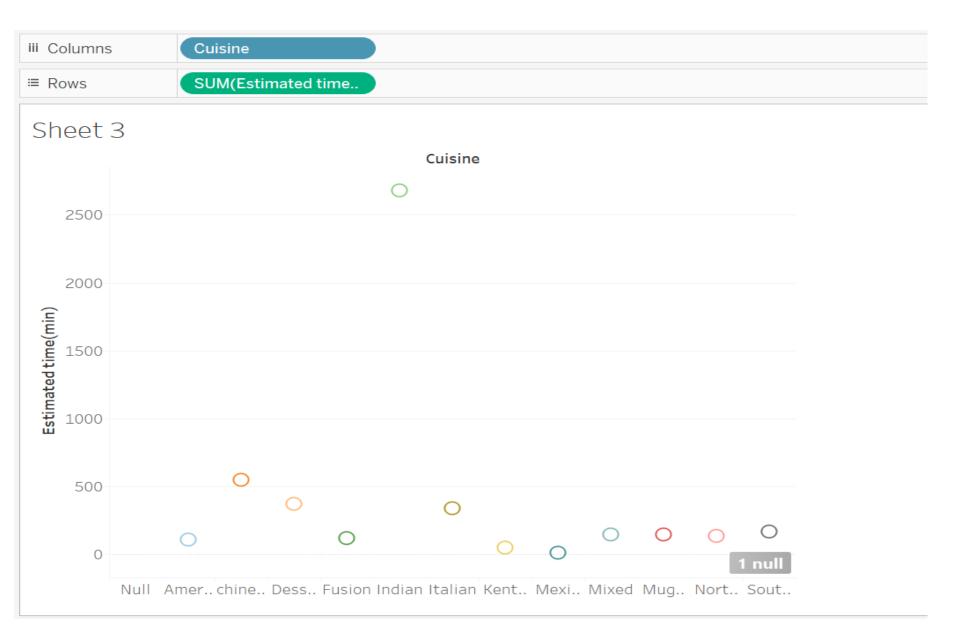


INT 200: ANALYZE AND VISUALIZE SWIGGY FOOD DELIVERY FOR DIFFERENT CUISINES

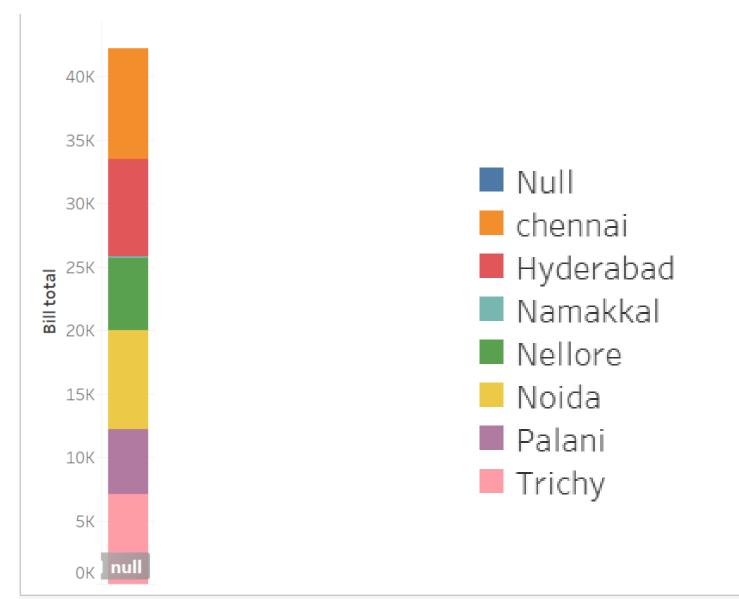
23. what is the most common mode of payment used in the dataset?



24. Which cuisine took longest time to be delivered in the dataset?



25. which place had the highest bill amount in the data set??

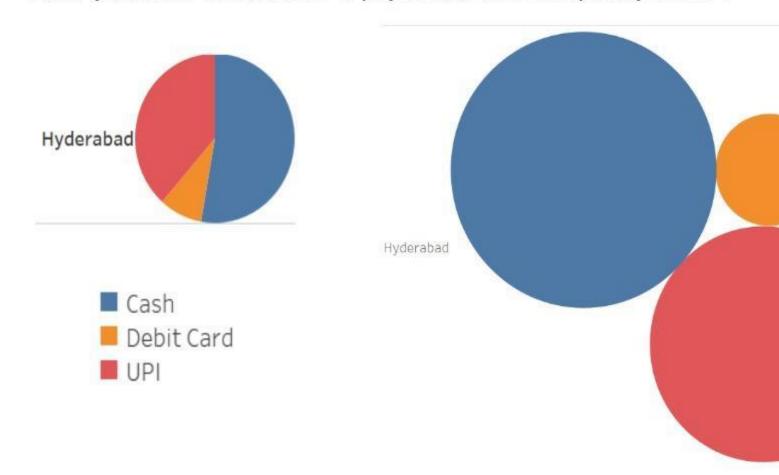


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1.In Hyderabad Which restaurant has received highest delivery partner fee in the dataset?

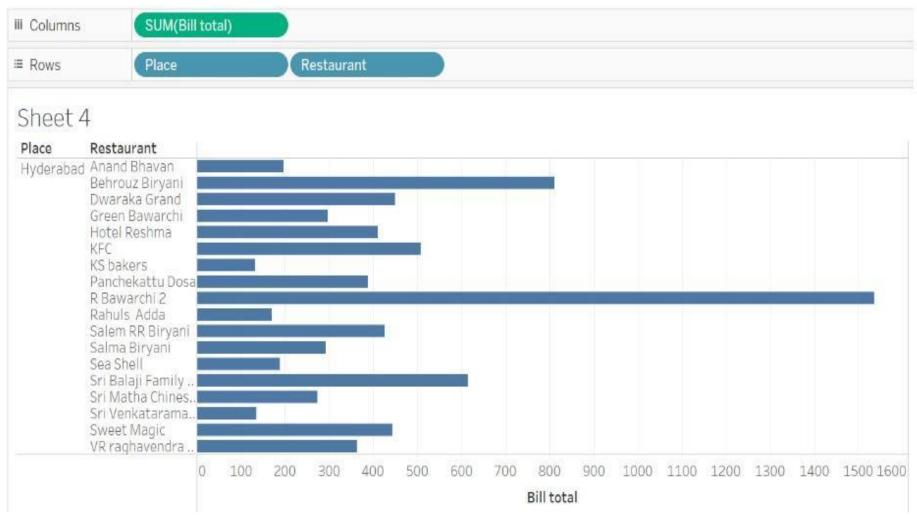


2.In Hyderabad which mode of payment is most frequently used??

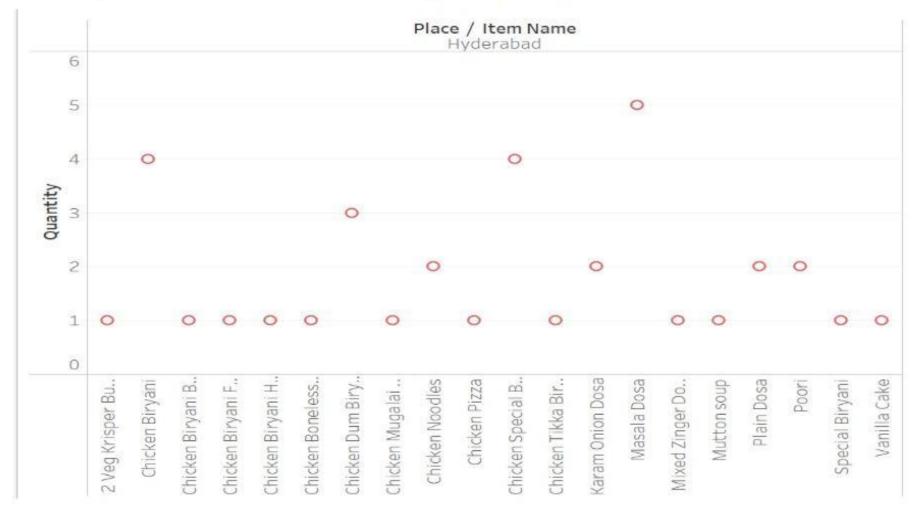


28.

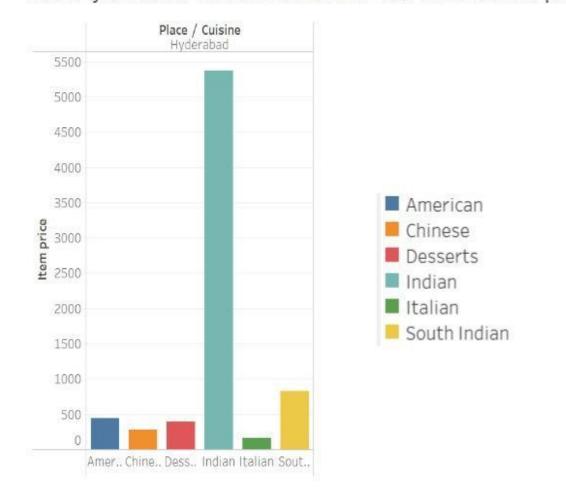
3.In Hyderabad which restaurant has the lowest bill amount in the dataset?

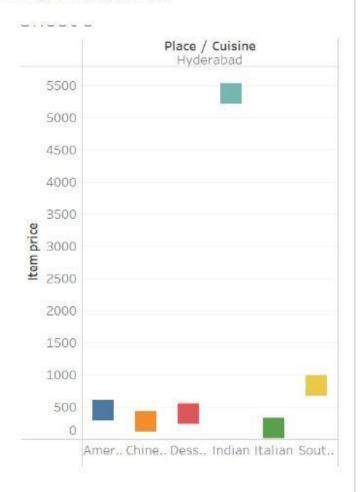


4.In Hyderabad which item has the highest quantity order in the dataset?

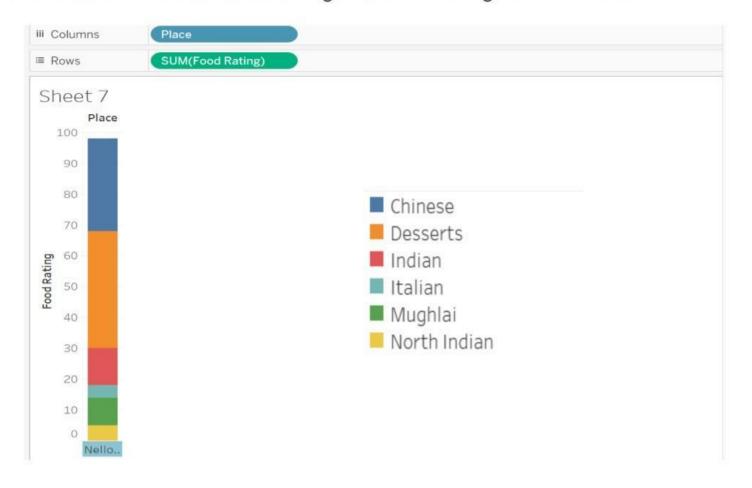


5.In Hyderabad which cuisine has the lowest item price in the dataset?





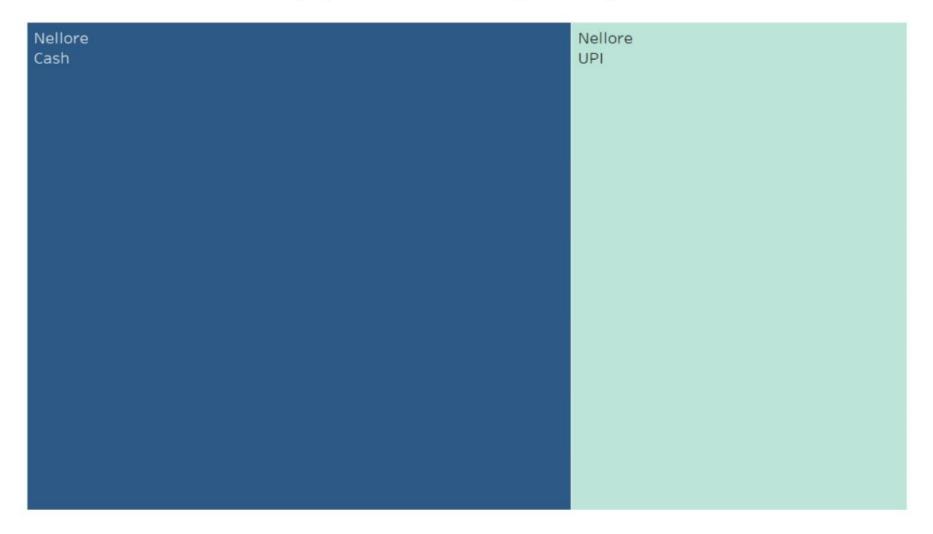
1.In nellore which cuisine has the highest food rating in the dataset?



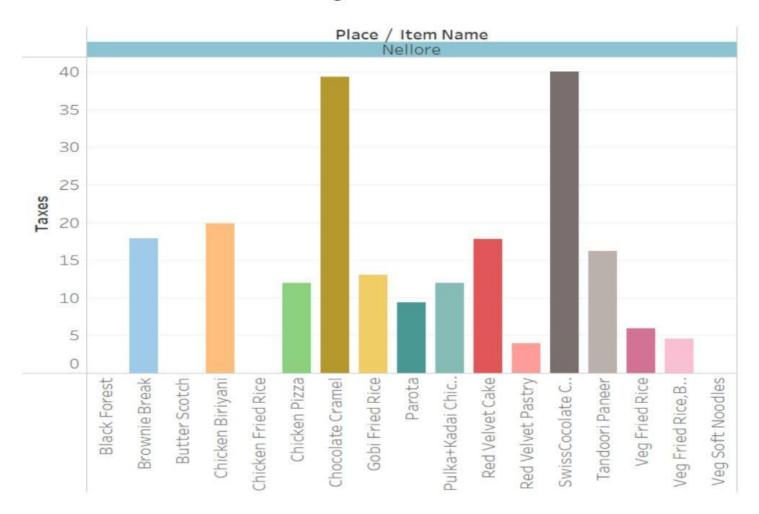
2.In Nellore which restaurant had the highest delivery rating in the dataset?



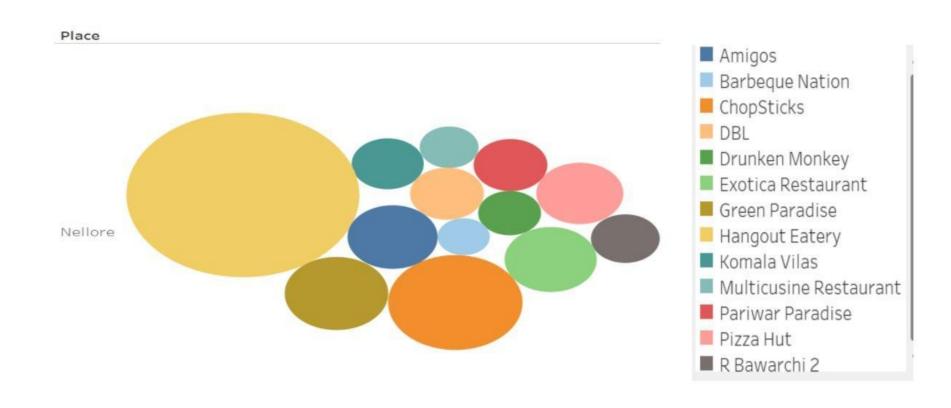
3.In Nellore which mode of payment is used comparatively less in the dataset?



4. In Nellore which item has highest tax amount in the dataset?

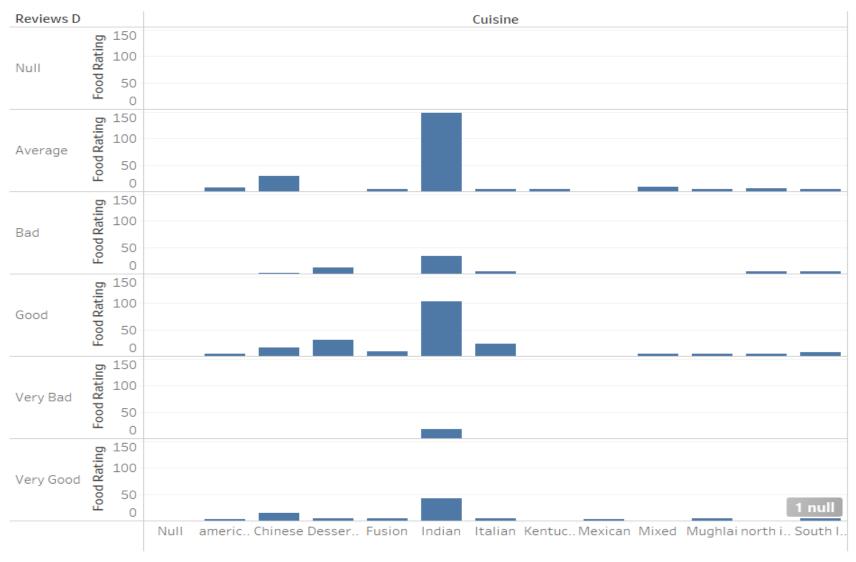


5.IN Nellore which restaurant has the highest bill amount in the data set?

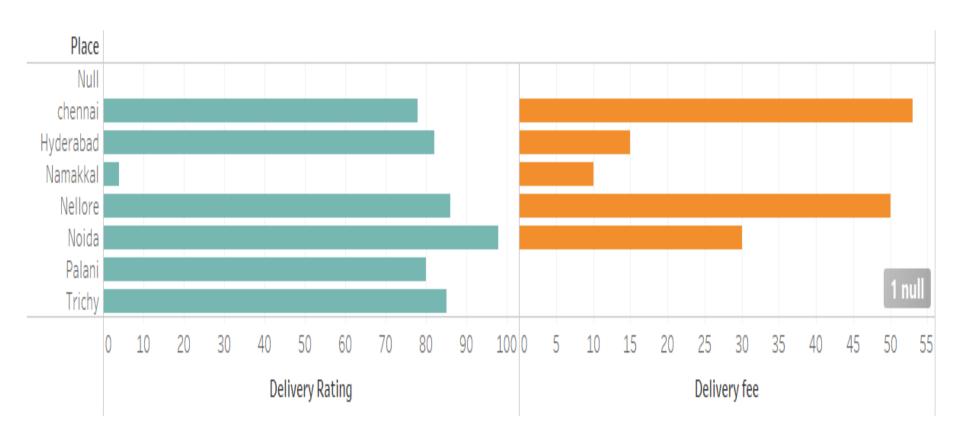


36. Which cuisine got very good delivery rating with best food rating from the customers?

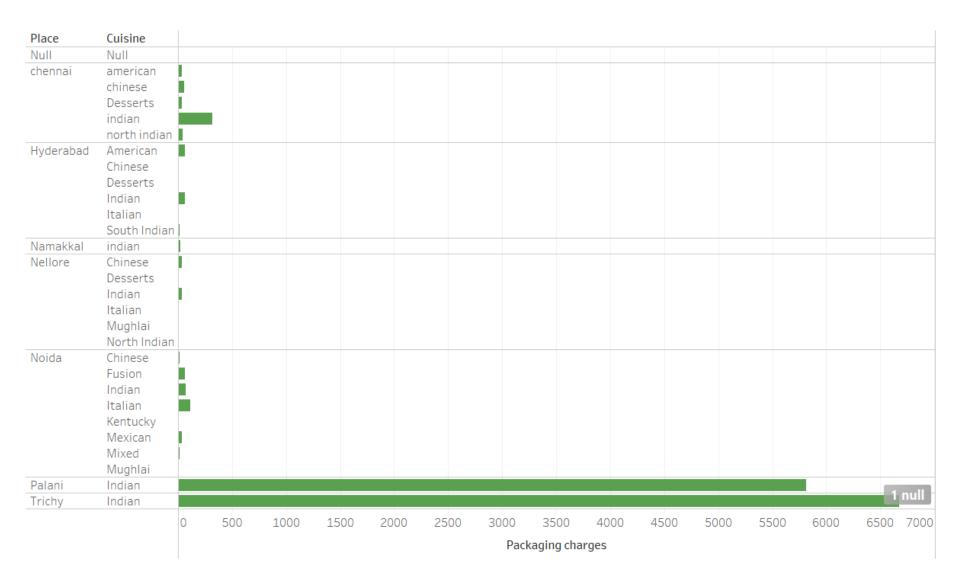
Sheet 6



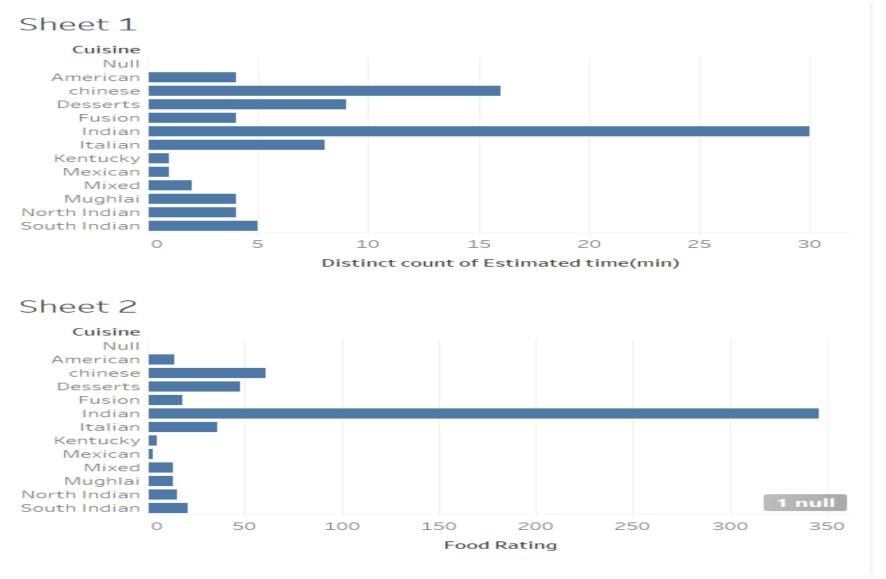
37. Interpret the following graph which place got the best delivery rating and took less delivery fee ?



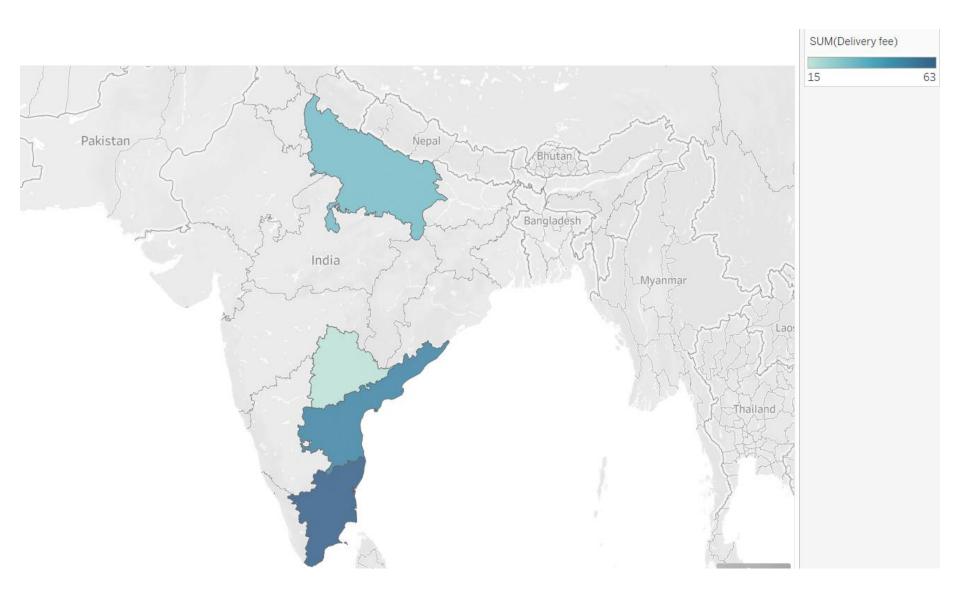
38. How much does it costs for packaging charges in Chennai to deliver a Indian cuisine?



39. Estimate the average time taken to deliver a Chinese cuisine in total dataset collected?



40. Which place got least delivery fee compared to other places in data collected?



WEBSITE SCREENSHOTS



Analyse and Visualise Food Delivery Time For Different Cuisines

Data Collected	Tableau	Places	Cuisin	es (Questionnaire	
• The data and the data set were obtained from multiple swiggy customers.	COLUMN NAME	DESCRIPTION	COLUMN NAME	DESCRIPTION	COLUMN NAME	DESCRIPTION
• The data is organised in a table format using google excel sheets.	Quantity	The quantity of items in the order.	Quantity	The quantity of items in the order.	Quantity	The quantity of items in the order.
• The data has specifications of individual users like duration of time that was required for a	Item Price	The total price of all items	Item Price	The total price of all items	Item Price	The total price of all items
particular cuisine to be delivered. • Taking the collected data into consideration lets	Packaging Charges	The price for packaging of items.	Packaging Charges	The price for packaging of items.	Packaging Charges	The price for packaging of items.
visualise and analyse which cuisine is taking the most time to get delivered based on the region	Delivery Partner Fee	The fee for the delivery partner.	Delivery Partner Fee	The fee for the delivery partner.	Delivery Partner Fee	The fee for the delivery partner.
the order is got placed. • Data visualization helps in presenting billions of	Discount Applied	The amount deducted as discount.	Discount Applied	The amount deducted as discount.	Discount Applied	The amount deducted as discount.
data points into meaningful insights. • It is a very important tool for all the data	Taxes	The tax charge like GST.	Taxes	The tax charge like GST.	Taxes	The tax charge like GST.
scientists to learn and understand the data in more details. • Visualization also helps business leaders to take important decisions for company growth and to	Bill Total	The total amount including the item prices and all the prices after deducting the discount.	Bill Total	The total amount including the item prices and all the prices after deducting the discount.	Bill Total	The total amount including the item prices and all the prices after deducting the discount.
move in the right direction.	Mode Of Payment	The mode in which the price was paid.(cash, UPI etc.)	Mode Of Payment	The mode in which the price was paid.(cash, UPI etc.)	Mode Of Payment	The mode in which the price was paid.(cash, UPI etc.)
View Data Collected	Order Time	The time at which the order was placed.	Order Time	The time at which the order was placed.	Order Time	The time at which the order was placed.

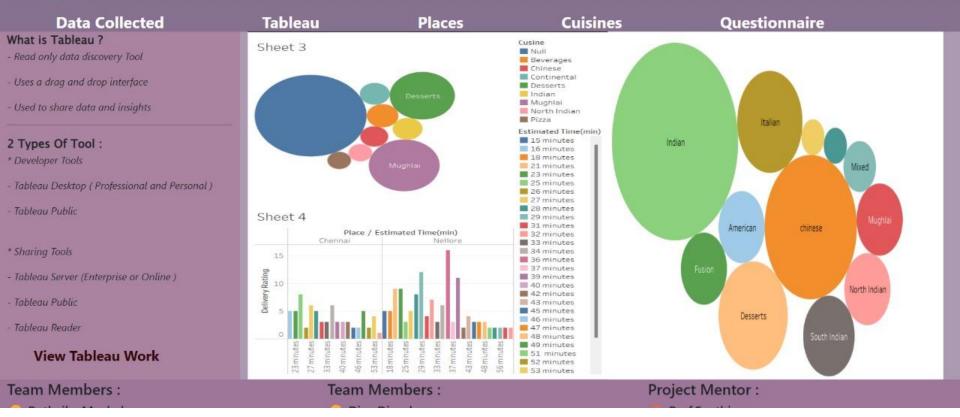
INT 200 : ANALYZE AND VISUALIZE SWIGGY FOOD DELIVERY FOR DIFFERENT CUISINES

Team Members:

Team Members:

Project Mentor:





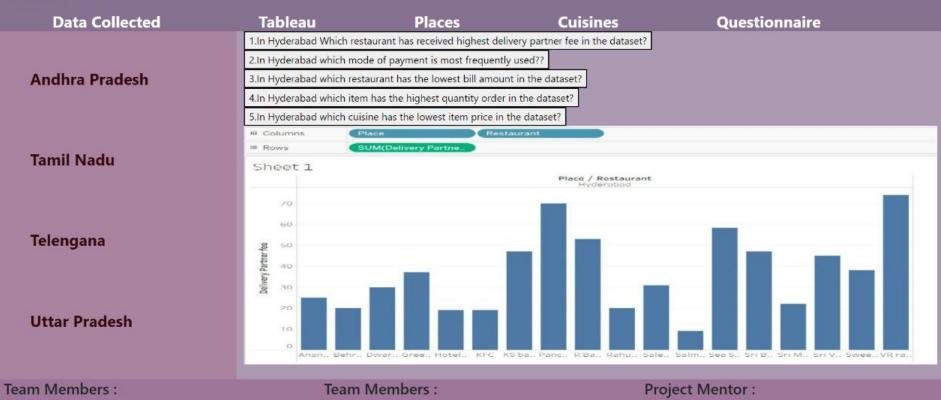




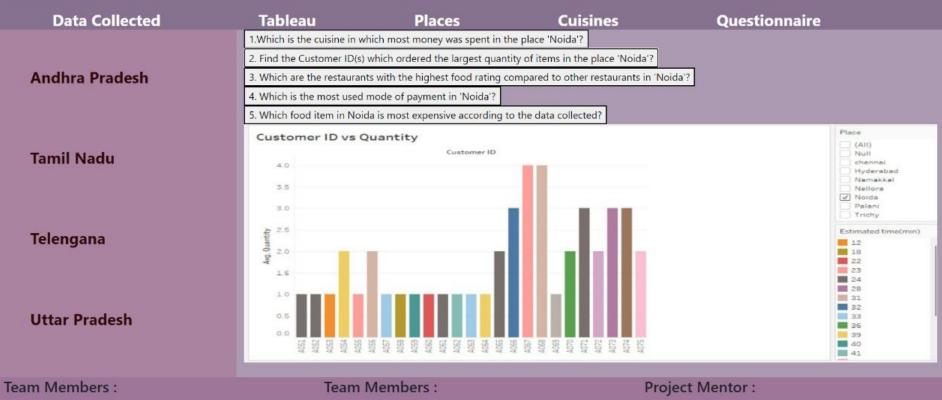














Data Collected	Tableau	Places	Cuisines	Questionnaire	
Desserts	-				
North Indian					
South Indian	Ice Cream		Falooda	Kulfi	
Chinese			12000		
Biriyani					
Continental	Cakes		Brownies	Pastry	
Drinks					
feam Members :	Team	Members :	P	roject Mentor:	



Data Collected	Tableau	Places	Cuisines	Questionnaire	
Desserts					
North Indian					
South Indian					
Chinese	Butter Ch	icken	Hara Bara Kabeb	Paratha	
Biriyani					
Continental	Roti- Dal		Butter Naan	Panner Kulcha	
Drinks					
Team Members :	Team	Members :	Pro	ject Mentor :	



Data Collected	Tableau	Places	Cuisines	Questionnaire	
Desserts					
North Indian					
South Indian	Pongal		Idly Sambar	Vadai	
Chinese					
Biriyani					
Continental	Parotta		Dosa	Poori	
Drinks					
Team Members :	Team I	Members :	Pi	roject Mentor :	



	152	.1			
Data Collected	Tableau	Places	Cuisines	Questionnaire	
Desserts					
North Indian					
South Indian	Noodles		Fried Rice	Chicken Lollipop	
Chinese	Zense.		Fried Rice	Cincken Compop	
Biriyani					
Continental	Manchuri	a	Momos	Chilli Chicken	
Drinks					
Team Members :	Team	Members :	Pi	roject Mentor :	



Data Collected

Objectves:

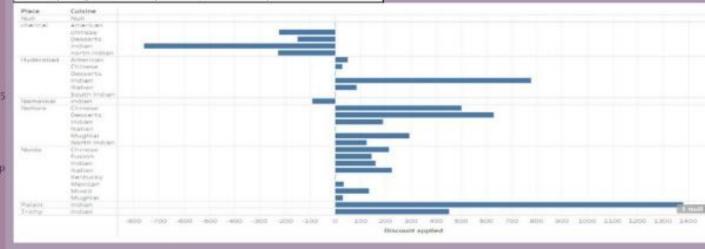
- · Visually analyse the various factors involved in delivery of food to the customer for different cuisines with using Tableau.
- This Project Specifically analyse it for Swiggy Food Delivery app.

Research / Product Survey:

- An Analysis of Online Food Ordering Applications in India Zomato and Swiggy https://www.researchgate.net/publication/34888055
- A Study on Impact of Online Food delivery app on Restaurant Business special reference to zomato and swiggy http://ijrar.com/upload_issue/ijrar_issue_20542895.p

View Questionnaire Collected

Cuisines Places 1. In Noida which cuisine got the greatest discount on food? 2. Which cuisine took longest time to be delivered in the dataset? 3.Interpret the following graph which place got the best delivery rating and took less delivery fee? 4. Which is the most used mode of payment overall? 5. Which place got least delivery fee compared to other places in data collected



Team Members:

Team Members:

Tableau

Project Mentor:

Questionnaire

TIMELINE OF THE WORK

Task Mode	Task Name	Duration	Start	End
=3	Data collection and learning tableau	2 hrs	21-06-2022	21-06-2022
=3	Data Entry and learning tableau	3 hrs	22-06-2022	22-06-2022
=3	Learning tableau and research	3 hrs	23-06-2022	23-06-2022
=3	Data Entry and learning tableau	2 hrs	24-06-2022	24-06-2022
=3	PPT making and data entry	5 hrs	27-06-2022	27-06-2022
=3	PPT making	3 hrs	28-06-2022	28-06-2022
=3	Learning tableau	9 hrs	29-06-2022	30-06-2022
=3	Data Entry	2 hrs	01-07-2022	01-07-2022
=	Normalization	3 hrs	04-07-2022	04-07-2022
=	Framing questionnaires	4 hrs	05-07-2022	05-07-2022
=3	Creating visual representations	3 hrs	06-07-2022	06-07-2022
=3	PPT making	5 hrs	07-07-2022	07-07-2022
=3	Website layout	4 hrs	08-07-2022	08-07-2022
=3	Website creation	5 days	11-07-2022	15-07-2022

20 Jun '22 27 Jun '22 4 Ju									4 Ju	4 Jul '22						11 Jul '22							18 Jul '22								
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REFERENCES

- ✓ https://github.com/GloriaChen0715/Food-Delivery-Time-Prediction
- √ https://bytes.swiggy.com/the-swiggy-delivery-challenge-part-one-6a2abb4f82f6
- ✓ https://github.com/chiragsamal/Predict-Food-Delivery-Time

Thank you