Cyprus – Asian food by C





Information Management School





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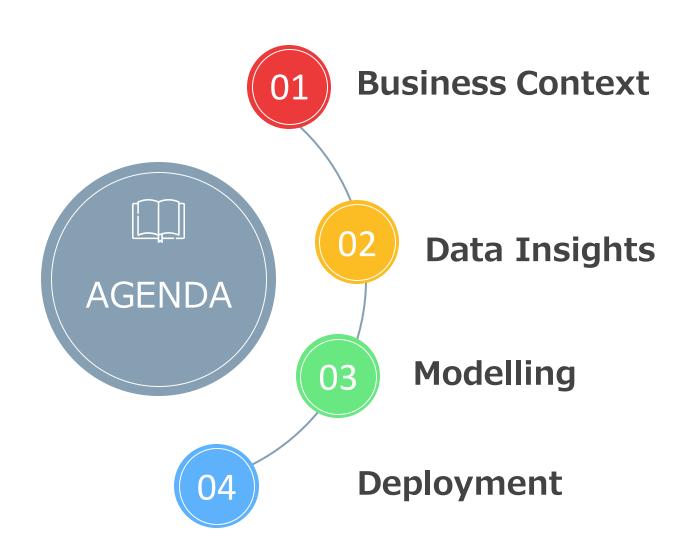


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Market Basket Analysis – Asian Food by C



BUSINESS CONTEXT

Business Situation

C's Asian food in
 Cyprus has been
 facing challenges
 due the increase of
 the competitivity in
 the restaurant
 business.

Business Goals

- Explore patterns
 and preferences
 based on customer
 behavior.
- Apply Market
 Basket Analysis.

Business Delivery

 Create a set of menus, introduction of new products, promotions and discounts.

DATA INSIGHTS



Most popular
Product
Families

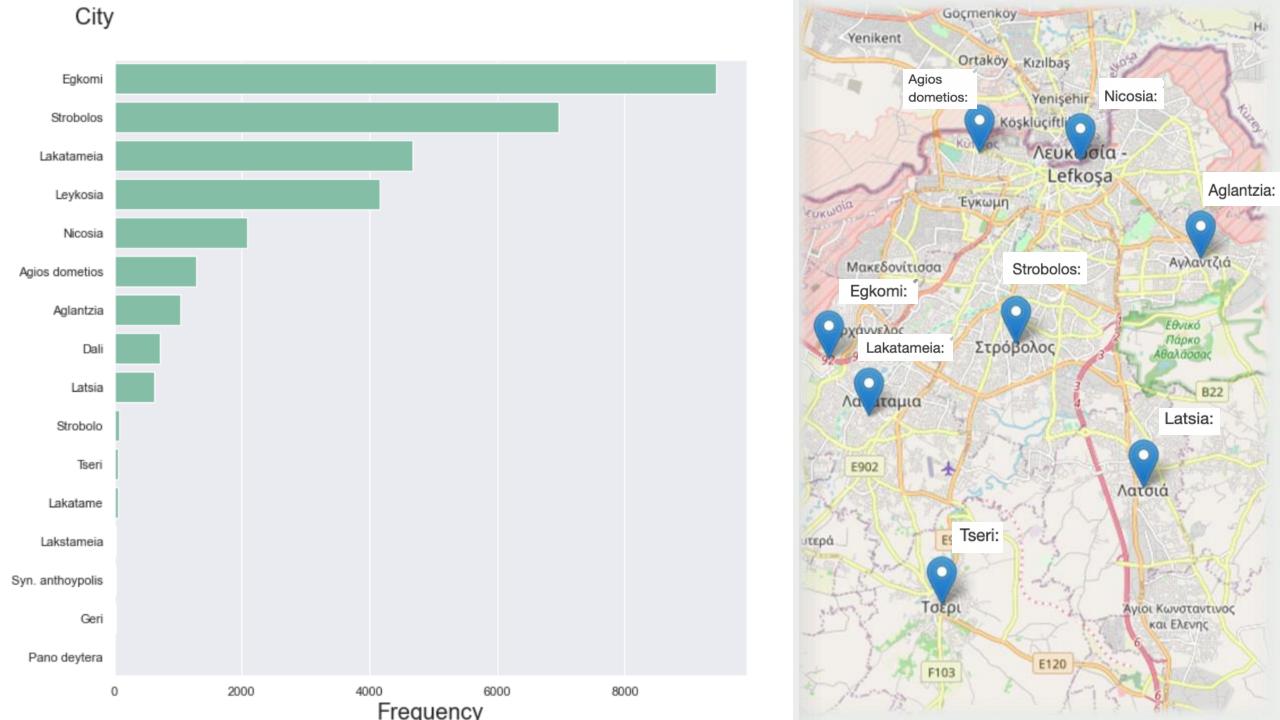
Rice Sizzling ea terinks Dessert tarter

bananaSOUC Egg fried

Most popular Products

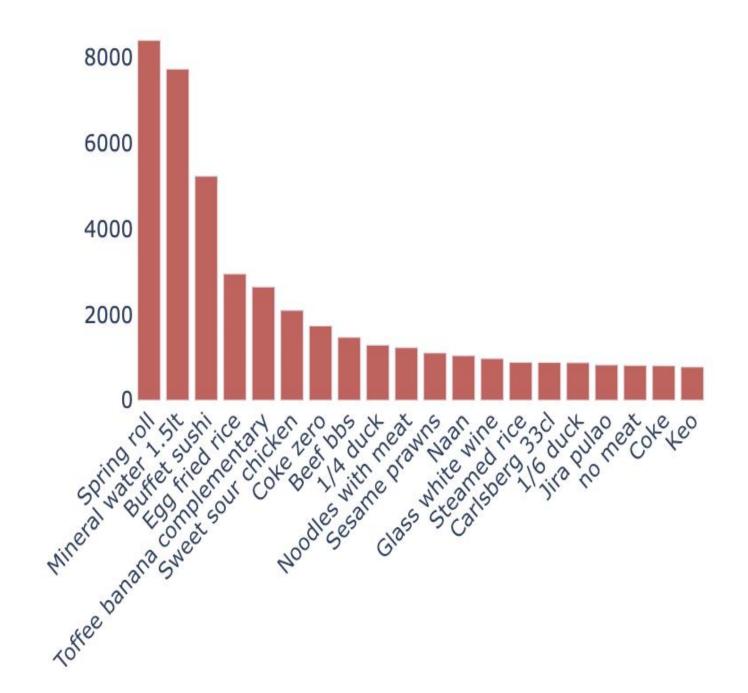
FREQUENCY OF CITIES IN THE TRANSACTIONS



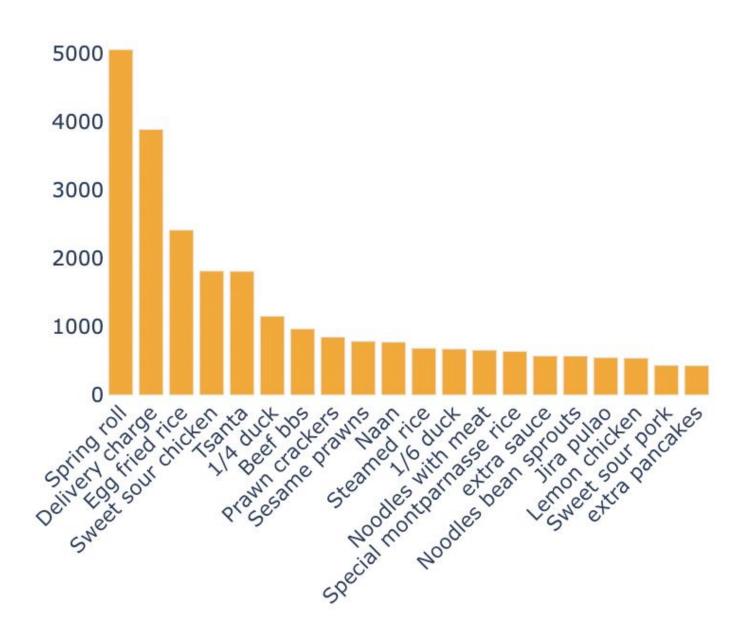




DELIVERY VS RESTAURANT

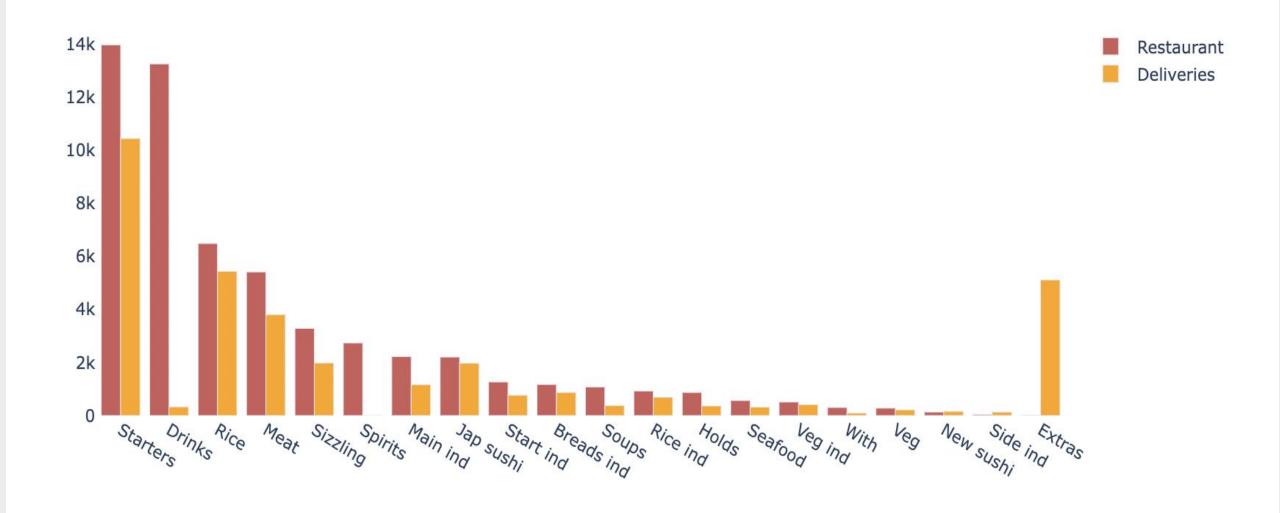








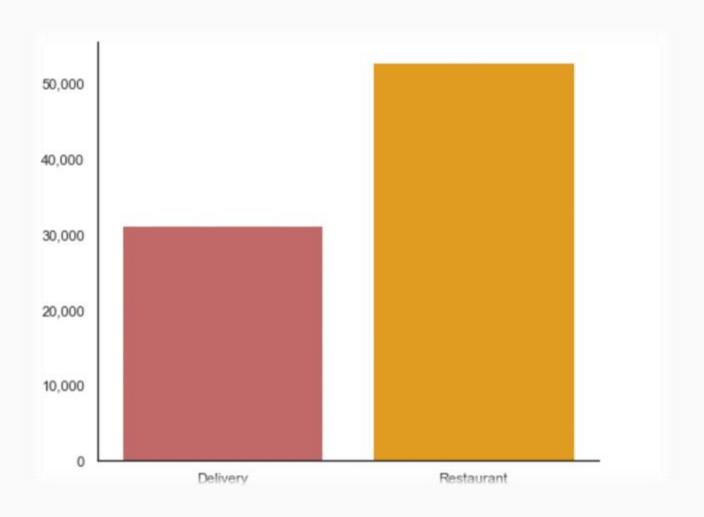
Bestselling products group by families (In Absolute Values)

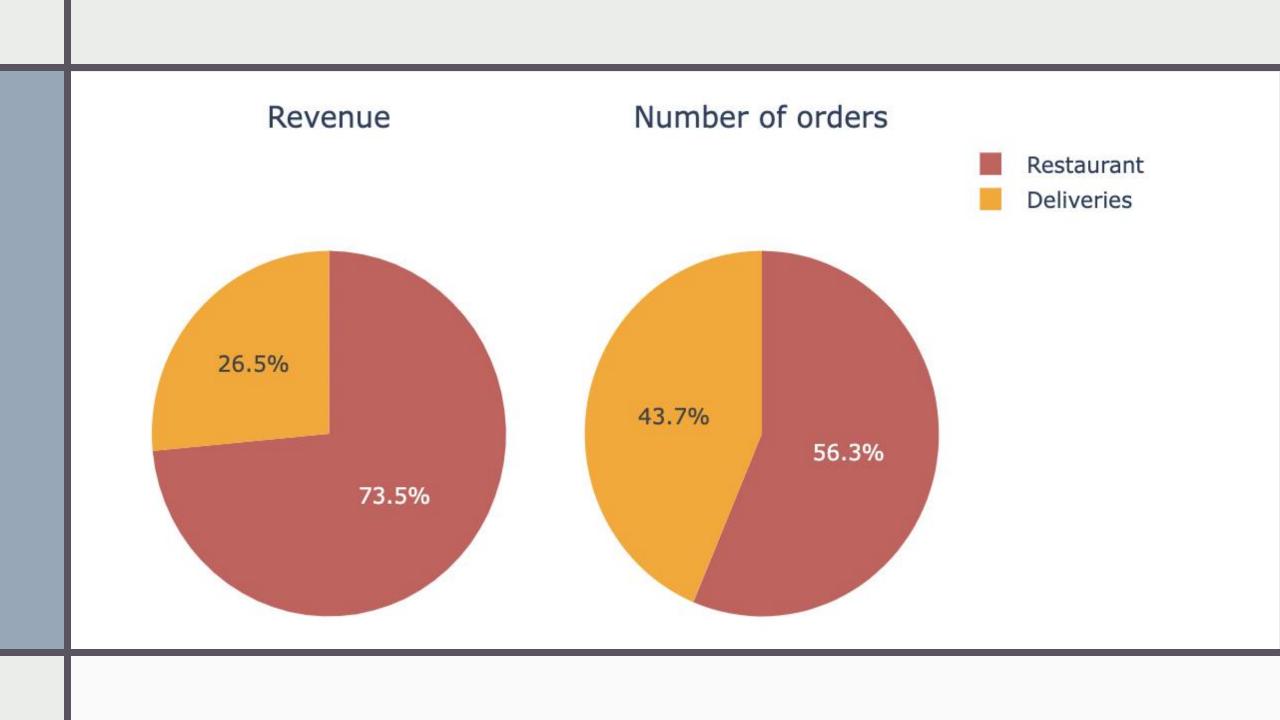


DO MORE ORDERS CORRESPOND TO MORE REVENUE?



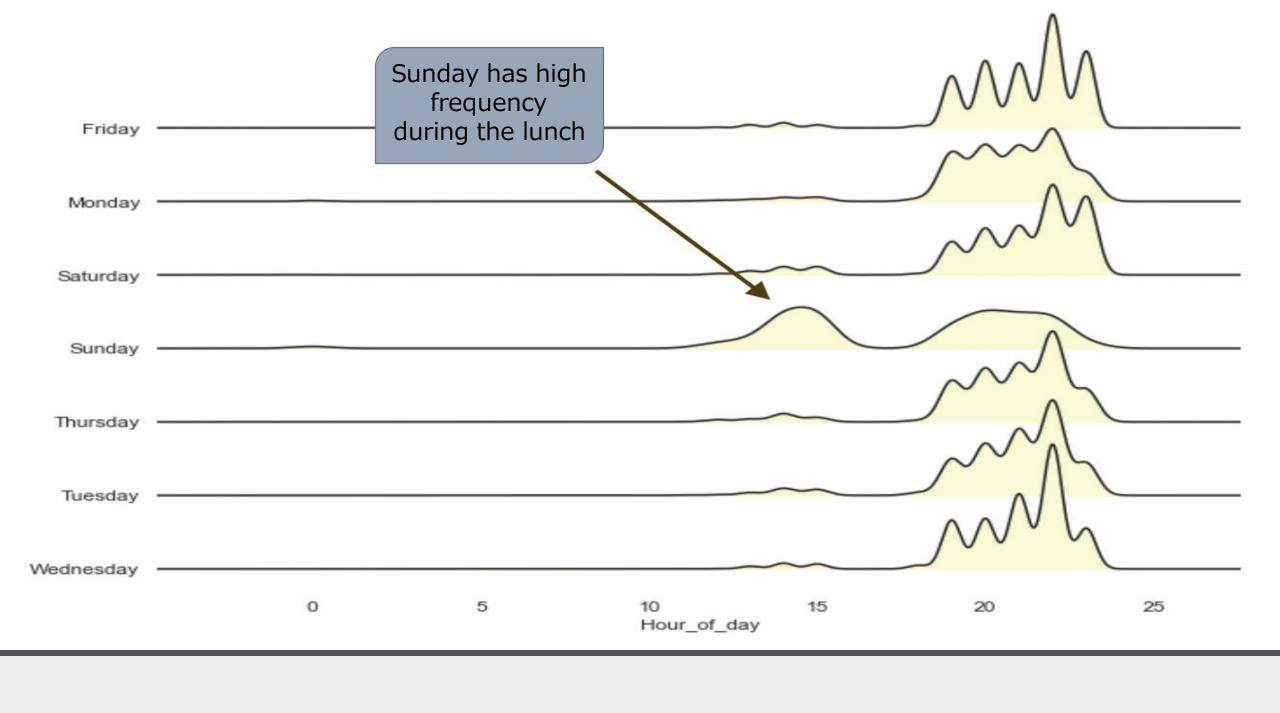
DELIVERY FREQUENCY

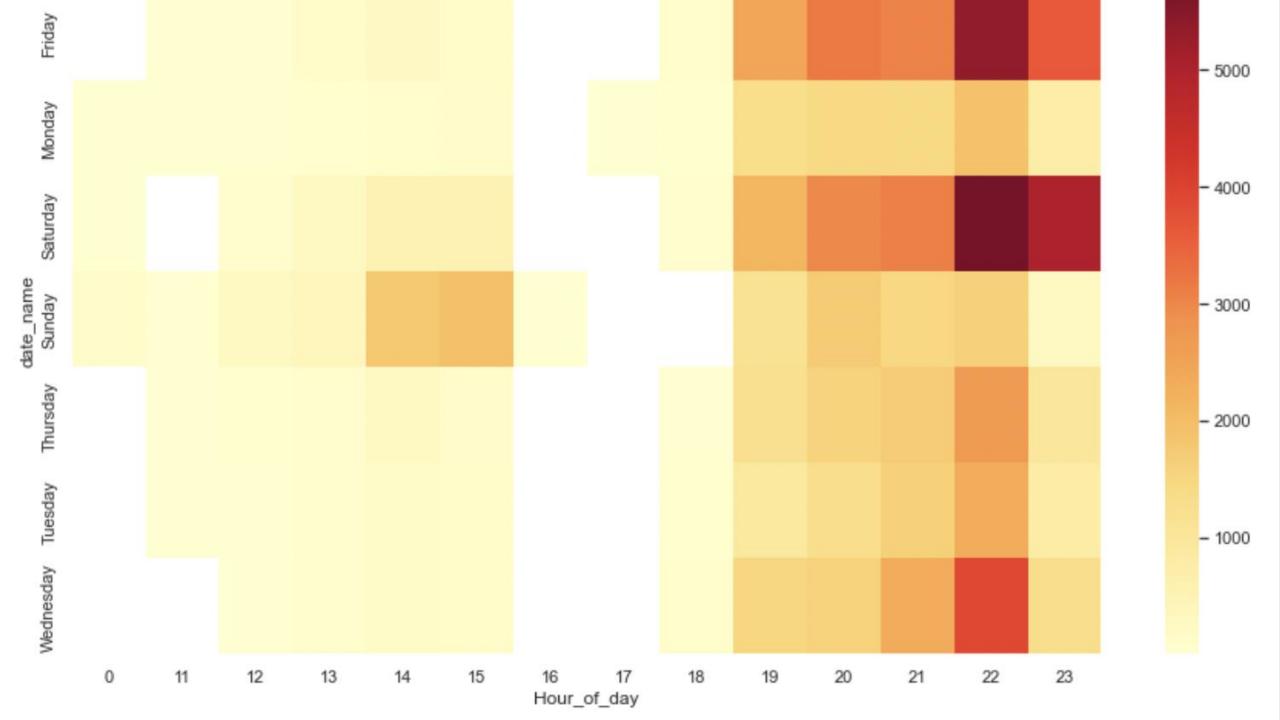




HOW IS THE DISTRIBUTION OF CLIENTS BY DAY OF THE WEEK AND TIME?







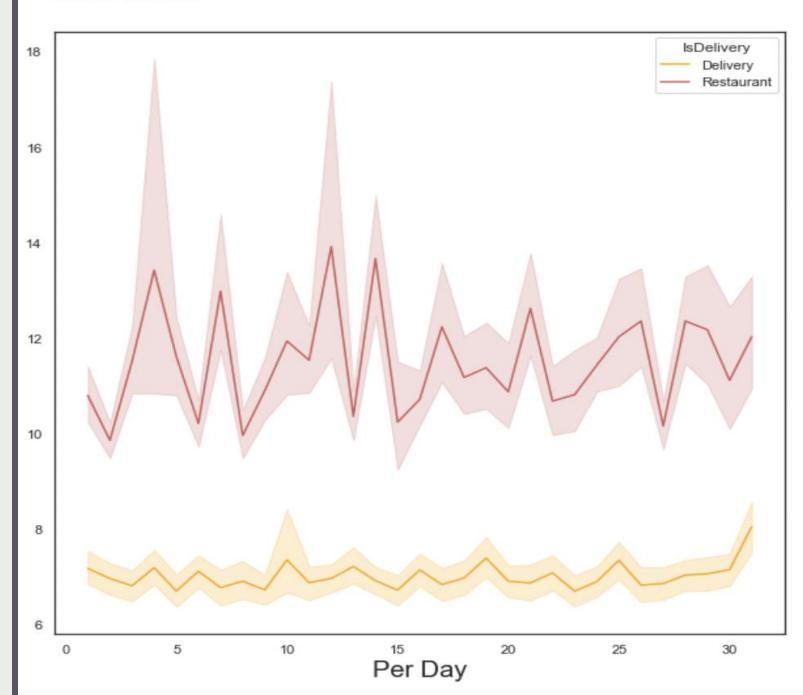
ANALYZING THE TOTAL SALES AMOUNT



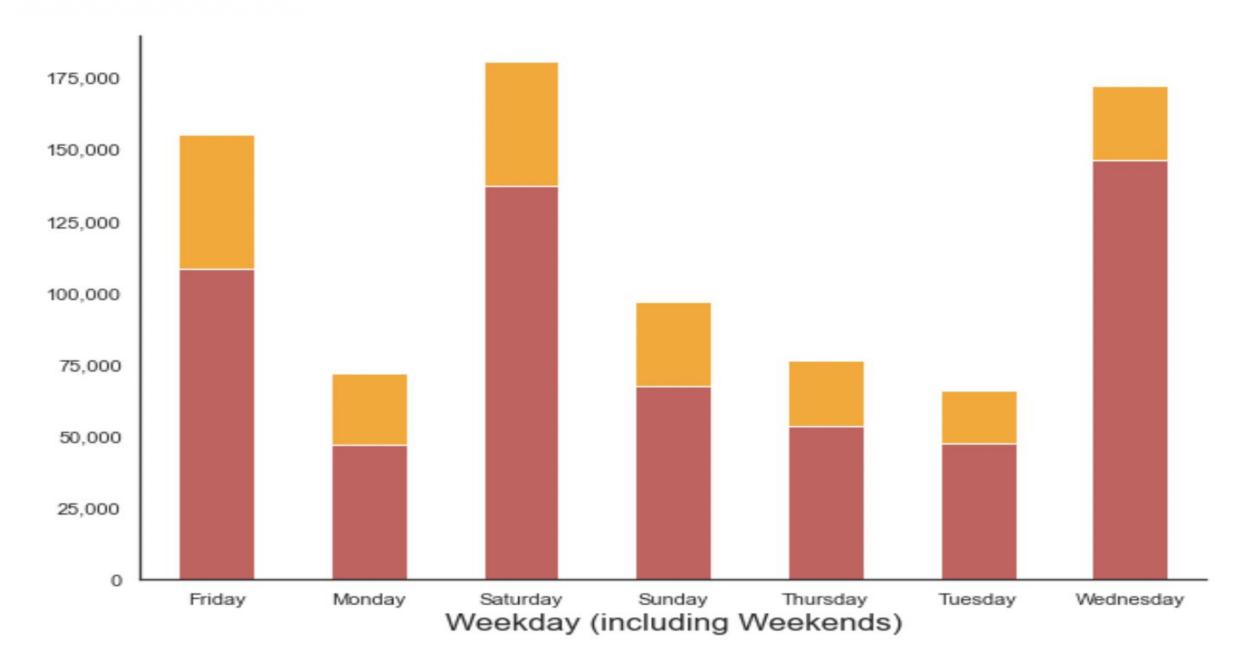
REVENUE PER ORDER

Delivery vs Restaurant





Total Sales Amount

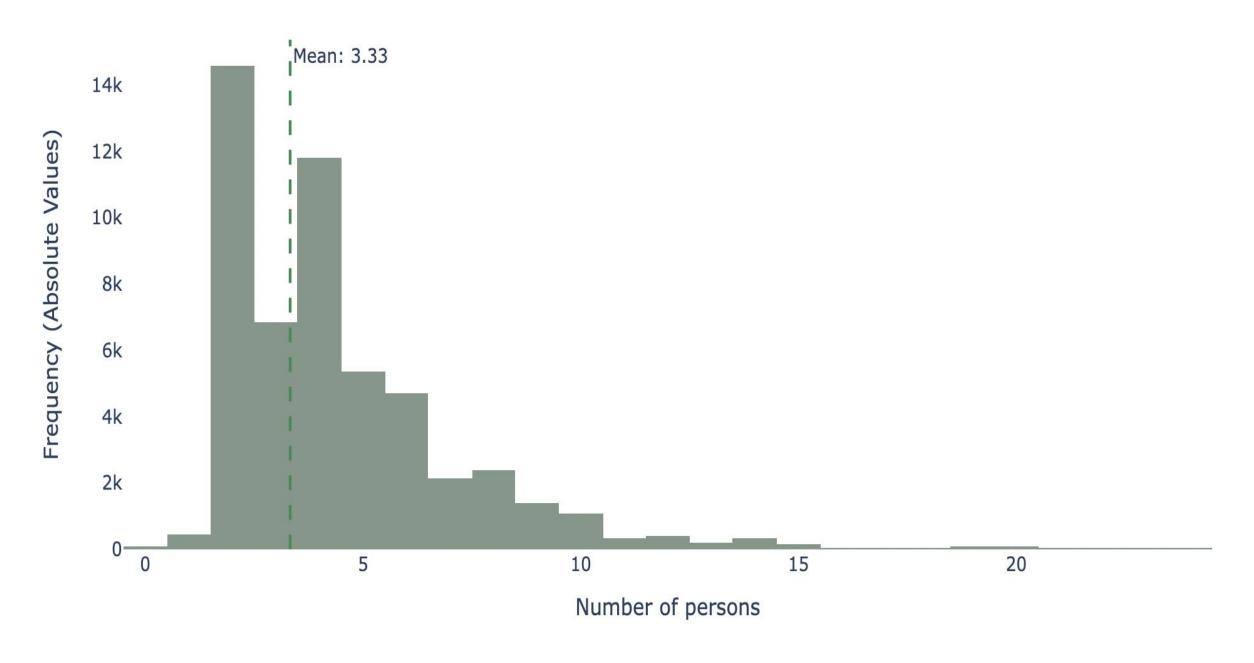


Total Revenue by Holiday 5000 4000 3000 2000 1000 (1, 2018-01-01) (1, 2018-01-06) (1, 2018-04-01) (1, 2018-04-09) (1, 2018-05-28) (1, 2018-10-01) (1, 2018-10-28) (1, 2018-12-24) (1, 2018-12-26) (1, 2018-03-25)

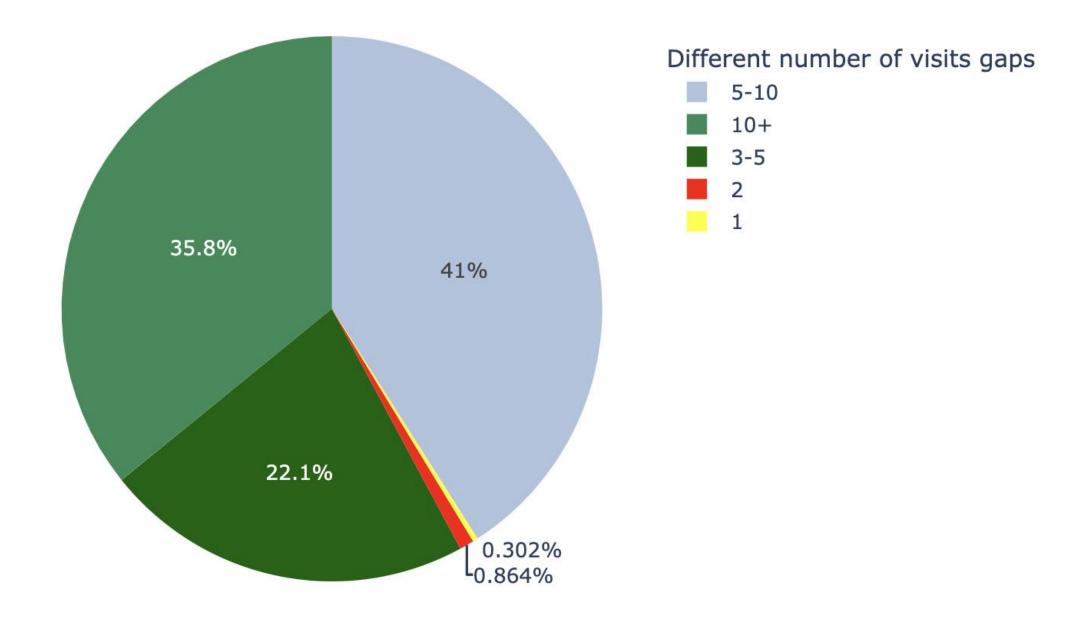
UNDERSTANDING CUSTOMER BEHAVIOR



Number of customers per meal



Distribution of the number of visits per client



MODELLING



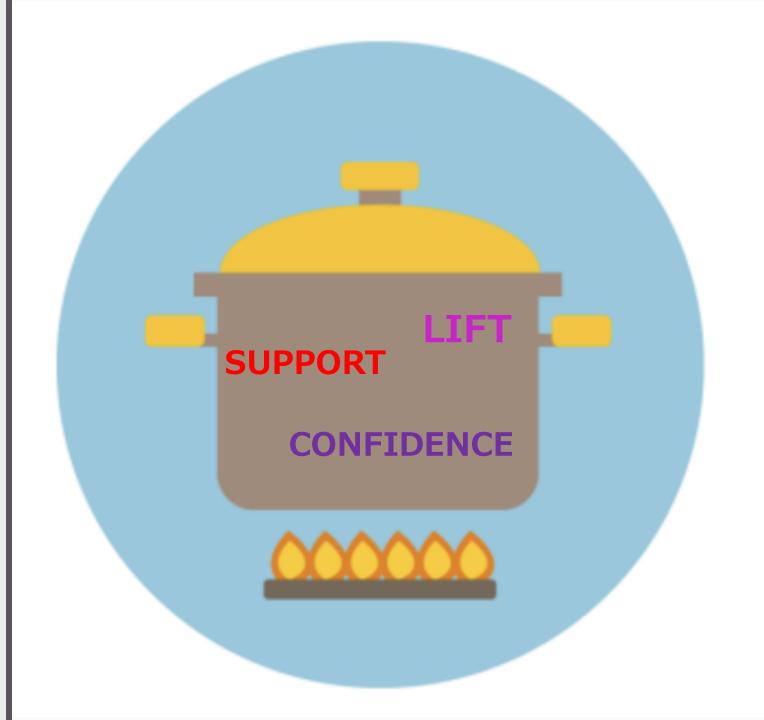
BREAKING DOWN THE DATASET...

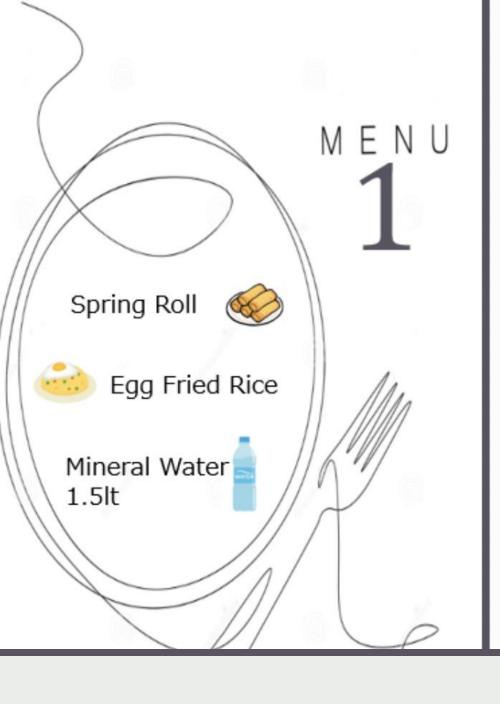
Restaurant Segment

Higher revenue per meal

Delivery Segment

 Higher proportion of revenue on Fridays and Saturdays Drawing interesting conclusions!

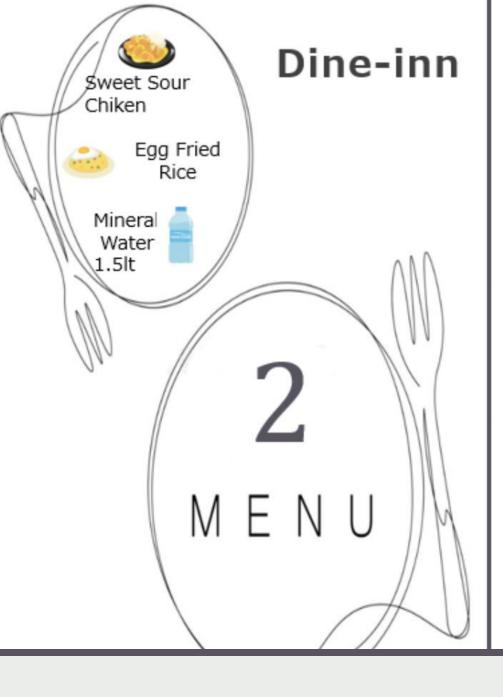




Common conclusion for Dine-inn and Delivery

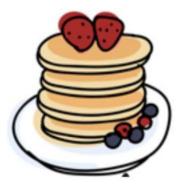
> Create a New Menu 1

Creation of new product: Noodles without meat



Deliveries





RECOMMENDATIONS

SATURDAY LUNCH CAMPAIGN

PROMOTION

WORST HOLIDAYS PROMOTION

"If you order on Saturday Lunch, we offer you a discount on next dinner visit"

Christmas Eve New Year's Eve Epiphany

- More business hours
- Focus on high quality products
- Partnerships nearby restaurant

Labor Day/May Day
Orthodox Pentecost
Monday

Attract costumers

DEPLOYMENT

Short-Term

• Application of promotions and discounts;

Medium-Term

- Final recommendation system;
- Quarterly report to the main decision-makers as marketing and financial areas;

Long-Term

• Annually modeling review;

Final recommendation system



A consultation system for employees and management



There are two types of recommendations:

Restaurant and Deliveries

Recommendation Restaurants

Based on:

- > Number of persons
- > Ordered Items

> "Three customers order Spring Roll, what are the main suggestions under the model?"

antecedents

consequents

Spring roll

1/6 duck

Recommendation Delivery

Based on:

- > Customer City
- > Ordered Items

> "A costumer that orders 'Spring roll' in 'Egkomi', what are the main suggestions under the model?" antecedents \$\diamonth{consequents}\$\$

Spring roll Chicken cashew nuts

Spring roll extra sauce

CONCLUSION

- ➤ Market Basket Analysis is used to optimize operations and drive profitable improvements for the business;
- Understanding customer behavior is pivotal to developing more effective marketing strategies;
- ➤ Resulting in more **successful promotions** and ultimately increased revenue;
- > Recommendations that are in line with C's goals.

THANK