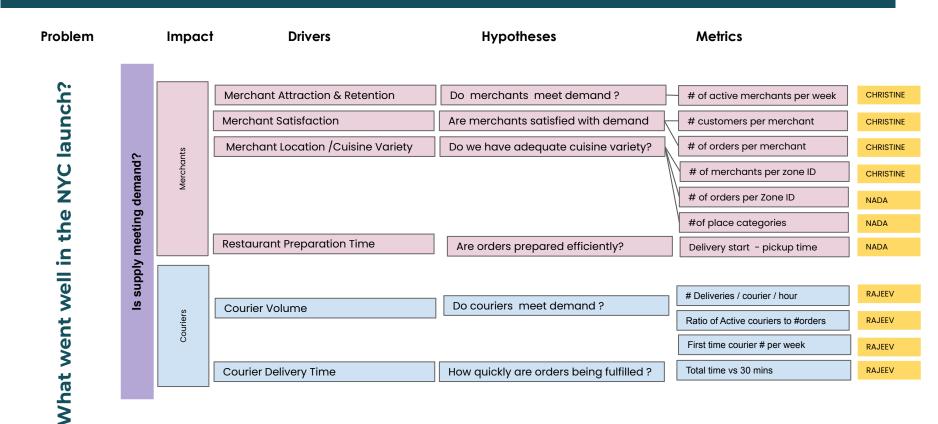
PROJECT JUNIPER

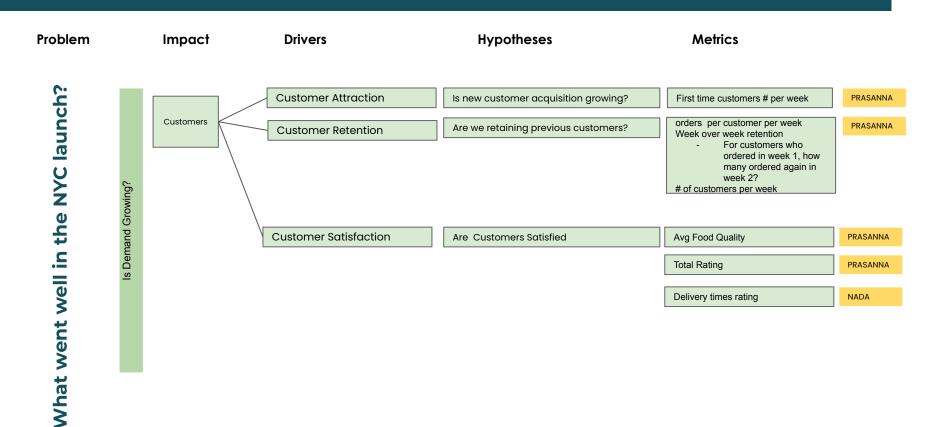
Issue Tree Development

PRASANNA MUPPIDI

Issue Tree - Project Juniper (Final)



Issue Tree - Project Juniper (Final)



```
SELECT

timestamp_trunc(when_the_delivery_started, week) week,

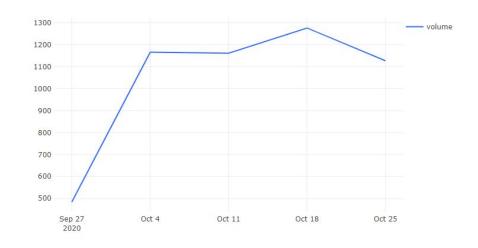
COUNT(DISTINCT delivery_id) volume

FROM

Skillful_Data.Project_Data

GROUP BY 1

ORDER BY 1
```



Has our weekly delivery volume been increasing or decreasing?

```
customer_id,
    count(DISTINCT delivery_id) as volume
FROM
    Skillful_Data.Project_Data
GROUP BY 1
HAVING volume >= 2
ORDER BY 1
```

customer_id	volume
1,311	2
5,139	2
6,987	2
7,922	2
9,666	6

How many customers have placed at least 2 orders?

```
SELECT

place_category,

COUNT(DISTINCT delivery_id) as volume

FROM

Skillful_Data.Project_Data

WHERE place_category is not NULL

GROUP BY 1

ORDER BY 2 DESC

LIMIT 5
```

What are the top 5 most popular place categories?

place_category	volume
Italian	437
Burger	395
American	357
Japanese	335
Dessert	277

fastest delivery times? SELECT place_category, AVG(TIMESTAMP_DIFF(when_the_Courier_arrived_at_dropoff, when_the_deliver FROM Skillful_Data.Project_Data WHERE place_category is not NULL CROUD BY 1

Which place category has the

Specialty Store

Department Store

Clothing

	ORDER BY 2
place_category	
Grocery Store	

Art Store

delivery_time

77.27 72.00

68.20

63.00

59,44

```
place_category,
    COUNT(DISTINCT delivery_id) as volume
FROM
    Skillful_Data.Project_Data
WHERE place_category is not NULL
GROUP BY 1
ORDER BY 2 DESC
LIMIT 5
```

What are the top 5 most popular place categories?

```
place_categoryvolumeItalian437Burger395American357Japanese335Dessert277
```

```
SELECT
    zi.borough,
    COUNT(DISTINCT pd.delivery id) volume
FROM
    Skillful_Data.Project_Data pd
JOIN Skillful Data.Zone Information zi
ON CAST(pd.pickup_zone_id as integer) = CAST(zi.zone_id as integer)
GROUP BY 1
```

Which pickup borough is doing the most orders?

bor
1.42

rough Manhattan

Brooklyn

Queens

ORDER BY 2 DESC

volume

5,02

186

```
zi1.zone id as dropoff zone id,
                                                                                    common
    zi2.zone_name as dropoff_zone,
    COUNT(DISTINCT pd.delivery id) volume
                                                                            pickup-zone and
FROM
    Skillful Data. Project Data pd
                                                                                dropoff-zone
JOIN Skillful Data. Zone Information zi1
ON CAST(pd.pickup zone id as integer) = CAST(zi1.zone id as integer)
                                                                              combinations?
JOIN Skillful Data. Zone Information zi2
ON CAST(pd.dropoff zone id as integer) = CAST(zi2.zone id as integer)
GROUP BY 1,2,3,4
ORDER BY 5 DESC
   pickup zone id
                         pickup zone
                                                     dropoff zone id
                                                                            dropoff zone
                                                                                                         volume
                         East Village
                                                     79
                                                                            East Village
   79
                                                                            Greenwich Village North
   79
                         East Village
                                                     79
                         Union Sq
                                                                            Union Sq
   234
                                                     234
   144
                         Little Italy/NoLiTa
                                                     144
                                                                            TriBeCa/Civic Center
   79
                         East Village
                                                     79
                                                                            TriBeCa/Civic Center
```

What are the most

SELECT.

zi1.zone id as pickup zone id,

zi1.zone name as pickup zone,

	pd.place_category,
	AVG(r.total_rating) as total_rating
	FROM
	Skillful_Data.Project_Data pd
	JOIN Skillful_Data.Ratings r
	ON pd.delivery_id = r.delivery_id
	GROUP BY 1
	ORDER BY 2 DESC
place_categ	gory
Russian	

SELECT

Coffee

Fast Food

Ice Cream

Caribbean

Which place category has the best total rating?

total_rating

5.00

4.75

4.46

4.40

4.33

What is the busiest time of the day - Breakfast, Lunch or Dinner?

```
Select

case when extract( hour from when_the_delivery_started) > 5 and extract( hour from when_the_delivery_started) < 12 then 'Breakfast'

when extract( hour from when_the_delivery_started) >= 12 and extract( hour from when_the_delivery_started) < 17 then 'Lunch'

else 'Dinner' END as time_of_day

, count(distinct delivery_id) as num_deliveries

from Skillful_Data.Project_Data
group by 1
```

time_of_day	num_deliveries
Dinner	3,277
Lunch	1,369
Breakfast	568

```
with first_week as (
Select
    customer_id
, min(DATETIME_TRUNC(when_the_delivery_started, week)) as cust_first_week
from Skillful_Data.Project_Data
group by 1
)

Select
    cust_first_week
    , count(distinct customer_id) as num_new_customers
from first_week
group by 1
order by 1
```

27/09/20 00:00	44
04/10/20 00:00	86
11/10/20 00:00	69
18/10/20 00:00	66
25/10/20 00:00	52

How many new customers were acquired each week? In which week were the most customers acquired?

	ery_io otal) killfo	The second secon		a	
Select					
case	when	delivery_total	<10	then	'<10'
	when	delivery_total	<20	then	'10-20'
	when	delivery_total	<30	then	'20-30'
	when	delivery_total	<40	then	'30-40'
	when	delivery total	<50	then	'40-50'
	else	'50+' end as va	alue	group)
, count		ivery id) as nur			
from de					
group by		Control of the Contro			

<10

20-30

50+

40-50

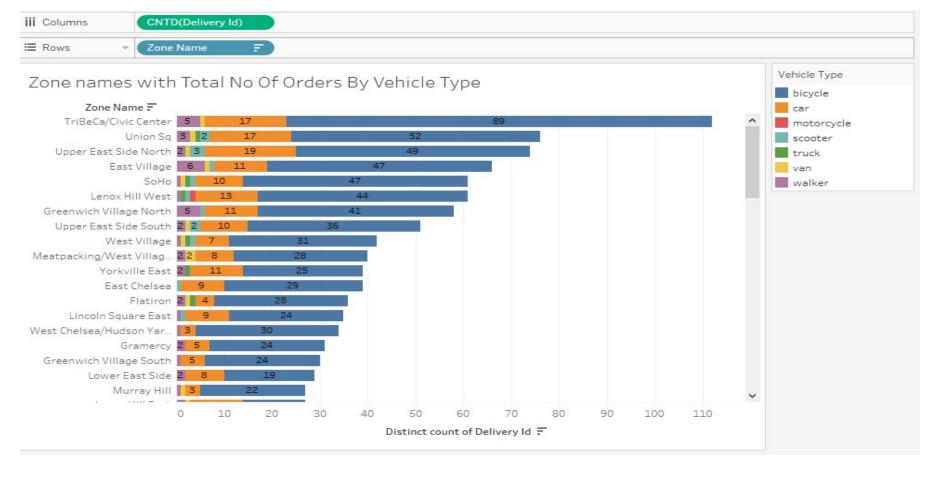
10-20

30-40

How many deliveries
occurred in the
denominations of \$10,
ranging from <\$10 to
\$50+. (ie, <\$10, 10-20,....
50+)? What is the most
popular range?

when delivery_total <30 then '20-30' when delivery_total <40 then '30-40' when delivery_total <50 then '40-50' else '50+' end as value_group , count(delivery_id) as num_deliveries from delvery_value group by 1	50+. (le, <\$10, 10-20, 50+)? What is the most popular range?
value_group	num_deliveries

Recommendations



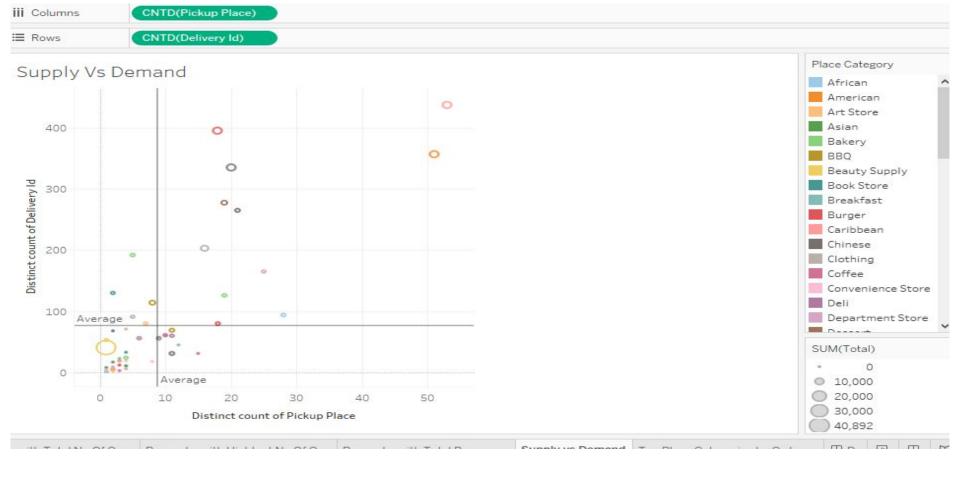
There seems to be a lot of bicycle deliveries, if we can switch to Car, MotorCycle, we can reduce the delivery time drastically and can attract new customers or retain customers



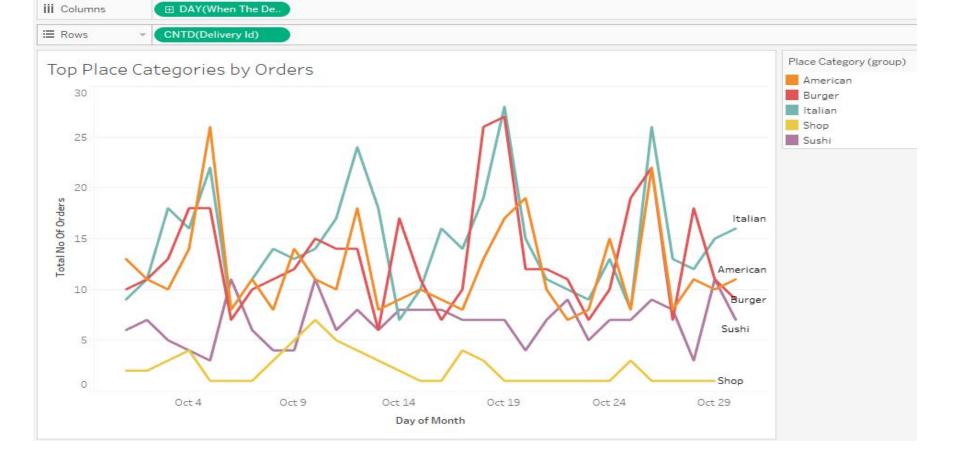
Manhattan is the borough with highest total revenue and we can see 3 Top Place categories are American, Burger and Italian



Manhattan is the borough with highest total revenue and we can see 3 Top Place categories are American, Burger and Italian



We need to look to First Quarter and second as, there's less no of Orders even we have reasonable no of restaurants available for delivery



We can focus more on promoting American, Burger and Italian, as these place categories are consistently in Top 3 Place categories by No Of Orders



We can see that the delivery agent is spending more in restaurant for pickup, if we can improve this, we can reduce delivery time by large fraction