DATA ANALYSIS FOR K PIZZA

BATCH – B81 SHAIK IRFAN
BY
DATAGYAN

DATA ANALYSIS FACTORS :-

** Analyze the difference in total spending between genders.*

**Analyze the best payment method based on reviews.*

**Analyze the most selling timestamp.*

**Analyze the most selling product type.*

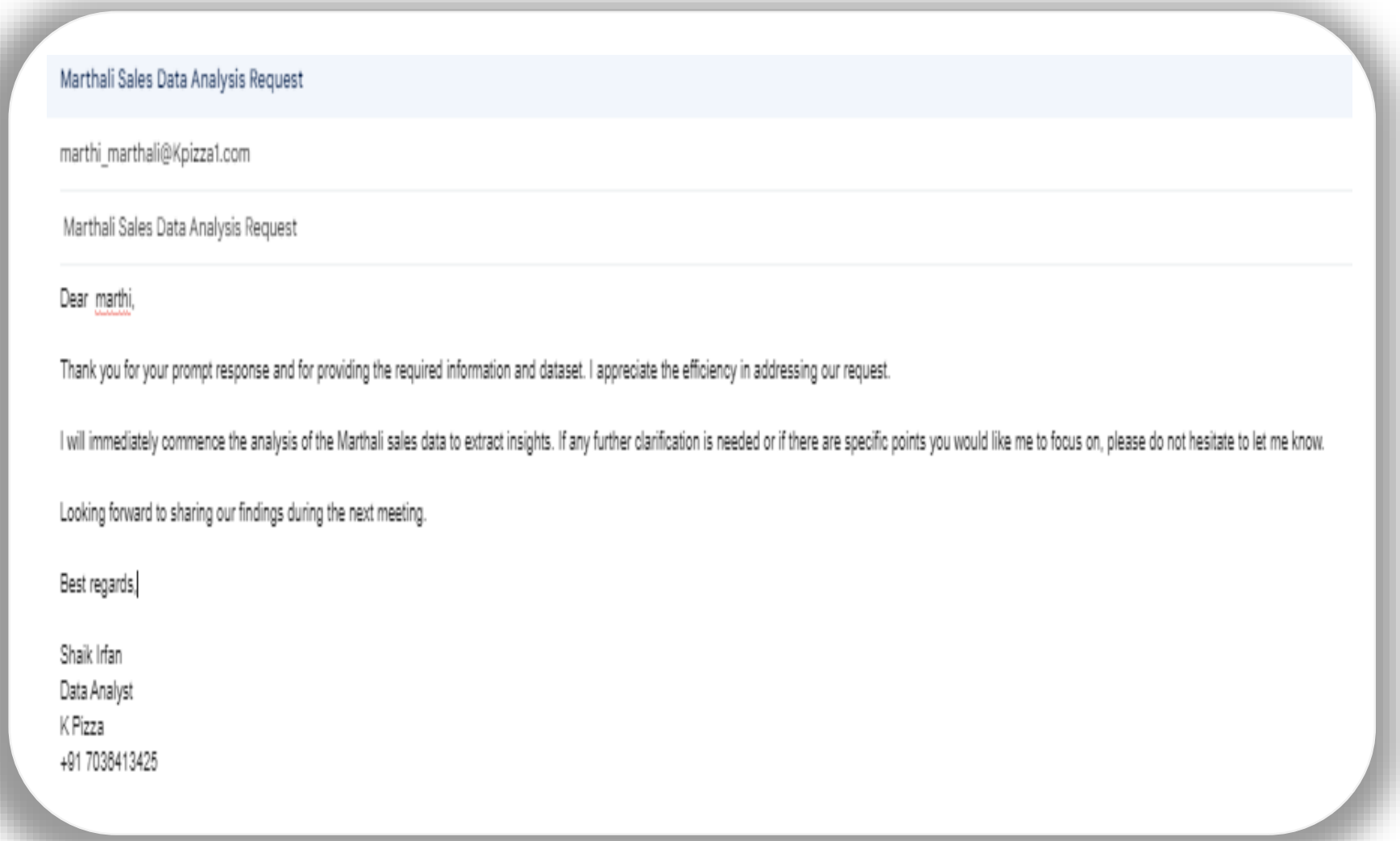
**Analyze the location with the most customers.*

**Analyze sales by year and quarter.*

**Analyze the relationship between money type, location, and timestamp.*

DATA PROCEUDRE

Data collection from sales team



Marthali Sales Data Analysis Request

marthi_marthali@Kpizza1.com

Marthali Sales Data Analysis Request

Dear marthi,

Thank you for your prompt response and for providing the required information and dataset. I appreciate the efficiency in addressing our request.

I will immediately commence the analysis of the Marthali sales data to extract insights. If any further clarification is needed or if there are specific points you would like me to focus on, please do not hesitate to let me know.

Looking forward to sharing our findings during the next meeting.

Best regards,

Shaik Irfan
Data Analyst
K Pizza
+91 7038413425

DATA PROCEUDRE

	A
1	Name
2	Deepthi Kelley
3	Deepthi Kelley
4	Andrew Ballard
5	Lester Wilkins
6	Andrew Ballard
7	Lester Wilkins
8	Mable Kelley
9	Darrin Pope
10	Mable Kelley
11	Darrin Pope
12	Raj Sharma
13	Sharad Gandhi
14	Danish D'Souza
15	Rijo Paul
16	Joseph P
17	Aakash Patel
18	Ganesh Rahu
19	Vinudas K.S
20	Divya Kumar
21	Shilpa R

Identifying Duplicate values using conditional formating

Using "IF" and "AND" Function for getting "TimeStamp" Column

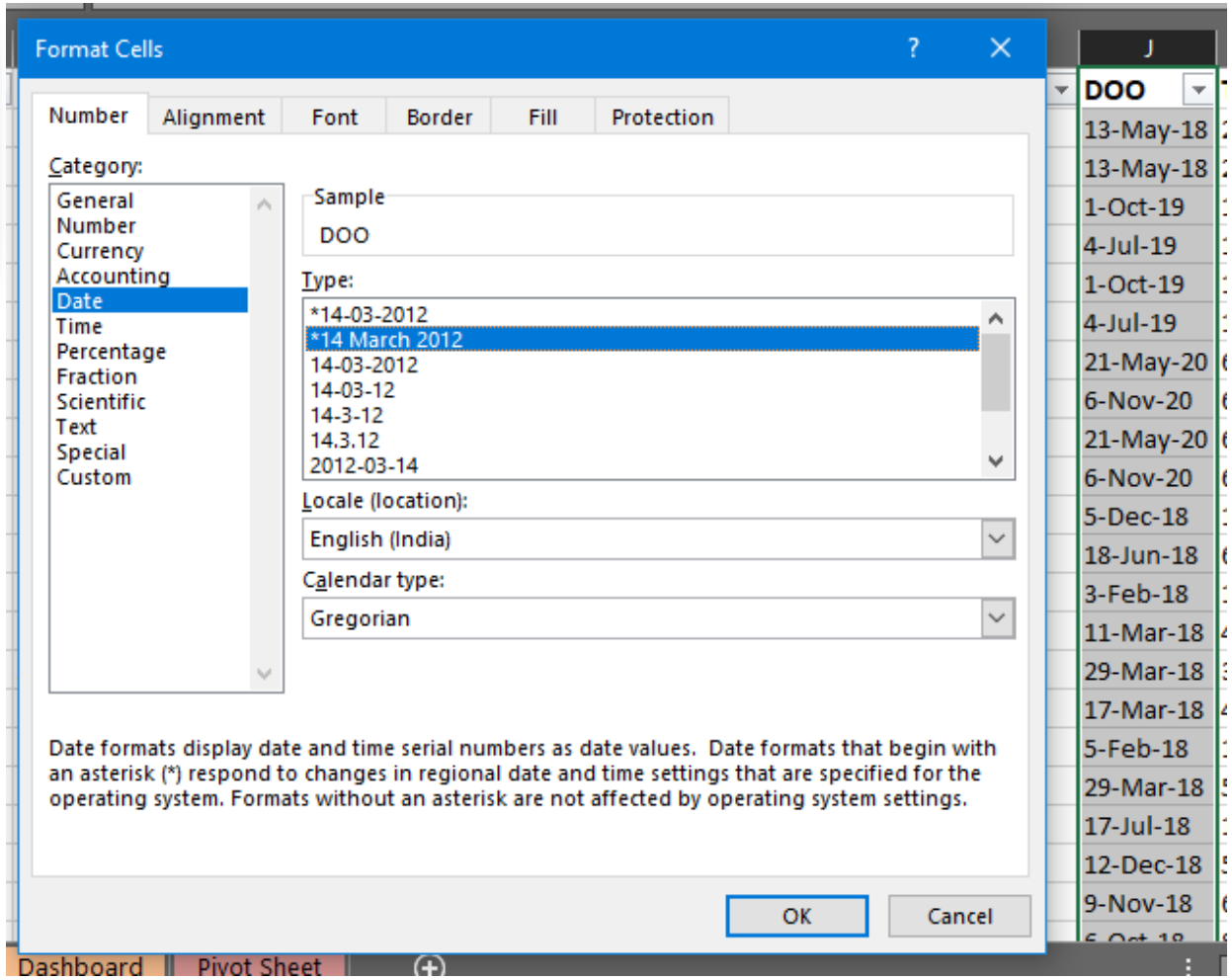
L	M	N	O	P	Q
Time	Gend	Time stam	Reviews		
12:05:00	Female	=IF(AND(L2:L101>=TIME(8,0,0),L2:L101<=TIME(			
12:05:00	Female	12,0,0)),"Morning",			
15:10:00	Male	IF(AND(L2:L101>=TIME(12,0,0),L2:L101<=TIME(			
15:15:00	Female	17,0,0)),"Afternoon",			
15:10:00	Male	IF(AND(L2:L101>=TIME(17,0,0),L2:L101<=TIME(			
15:15:00	Female	21,0,0)),"Evening"," ")))			
17:15:00	Female	Evening			
17:20:00	Male	Evening			
17:15:00	Female	Evening			
17:20:00	Male	Evening			
11:00:00	Male	Morning			
11:05:00	Female	Morning			
11:10:00	Male	Morning			
11:25:00	Male	Morning			
11:30:00	Male	Morning			
11:35:00	Male	Morning			
11:40:00	Male	Morning			
11:45:00	Male	Morning			
11:50:00	Female	Morning			
11:55:00	Female	Morning			
12:00:00	Female	Morning			
12:10:00	Female	Afternoon			
12:25:00	Male	Afternoon			
12:30:00	Male	Afternoon			
12:35:00	Male	Afternoon			
12:40:00	Male	Afternoon			

Data Cleaning

DATA PROCEUDRE

Data Cleaning

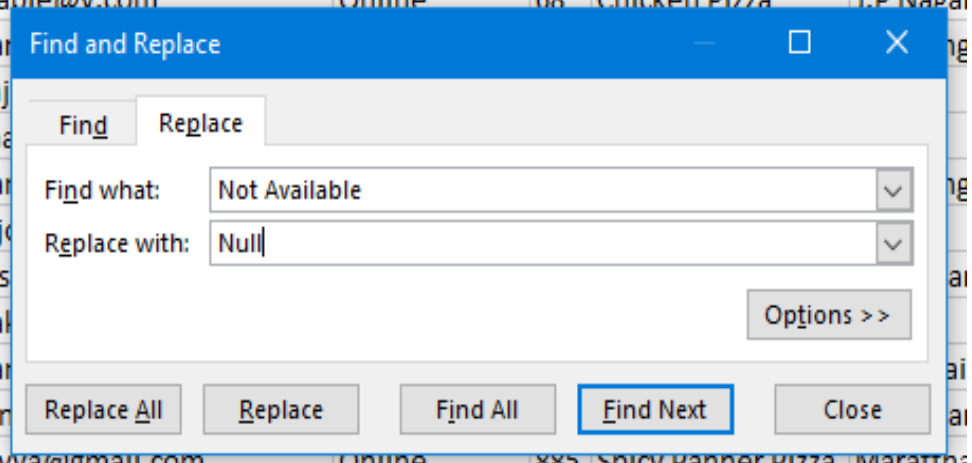
For better understanding changing "13-05-18" to "13-May-18".Using format cells option



DATA PROCEUDRE

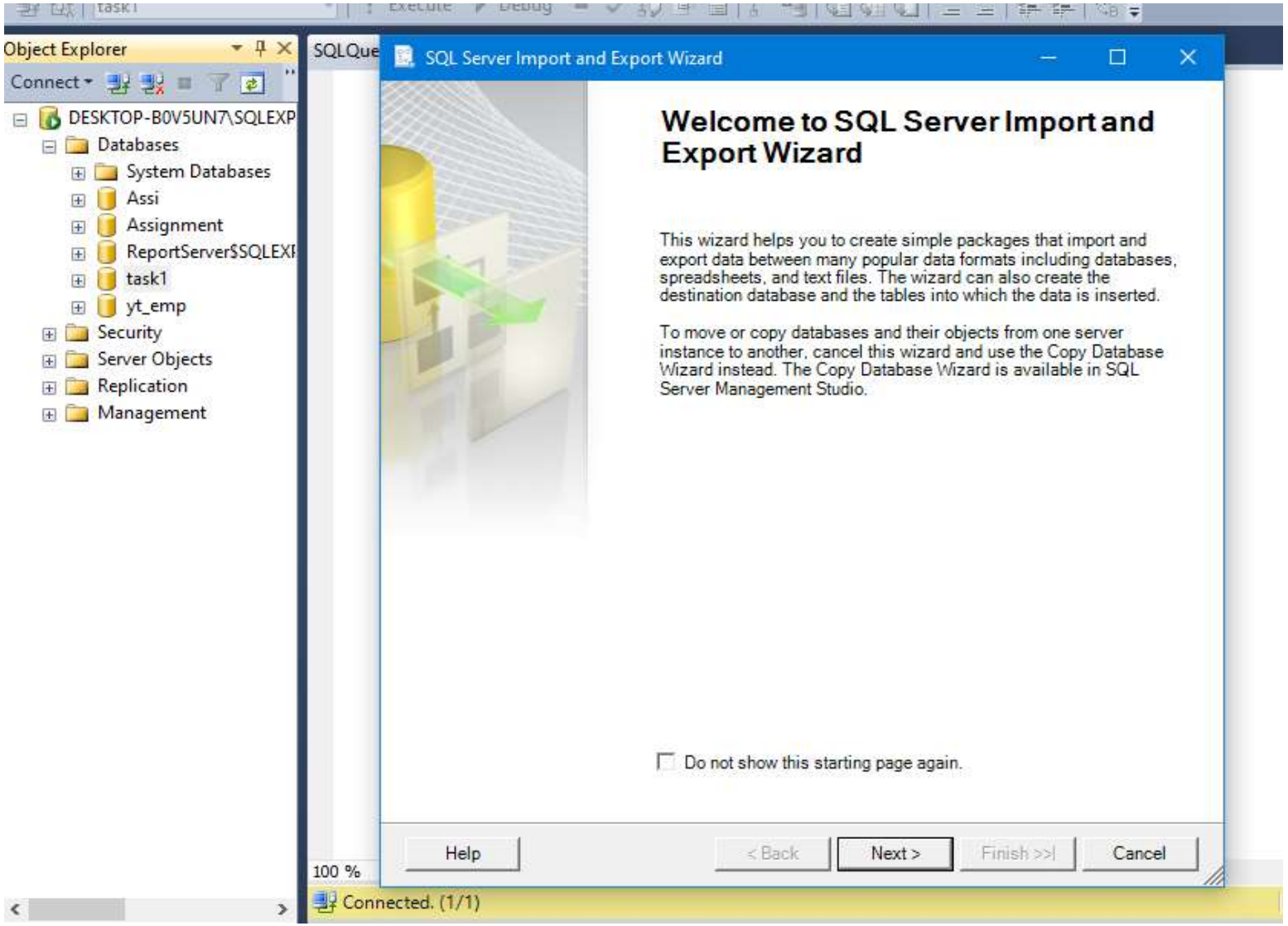
In mobile column some values are "Not Available" So as per Shakeholder condition changing as "Null"

C	D	E	F	G	H
Mob	Email	Money Typ	P	Prodcut Type	Location
1032274597	Deepthi@rediffmail.com	Cash	161	Spicy Panner Pizza	Marattha
1032274597	Deepthi@rediffmail.com	Cash	161	Spicy Panner Pizza	Marattha
7280083086	Andrew@g.com	Online	150	Spicy Panner Pizza	Marattha
1491564415	Lester@rediffmail.com	Cash	935	Margherita Pizza	Kormang
7280083086	Andrew@g.com	Online	150	Spicy Panner Pizza	Marattha
1491564415	Lester@rediffmail.com	Cash	935	Margherita Pizza	Kormang
1421179061	Mable@y.com	Online	68	Chicken Pizza	J.P Nagar
7855543695	Darrin@gmail.com	Cash	829	Veggi Pizza	Kormang
1421179061	Mable@y.com	Online	68	Chicken Pizza	J.P Nagar
7855543695	Dar				
9906960566	Raj				
5900874374	Sha				
453601168	Dar				
1664438923	Rijo				
Not Available	Jos				
867038371	Aak				
673760051	Gar				
9671602033	Vin				
777063935	Divya@gmail.com	Online	885	Spicy Panner Pizza	Marattha
9446055414	Shilpa@rediffmail.com	Online	480	Chicken Pizza	Kormang



Data Cleaning

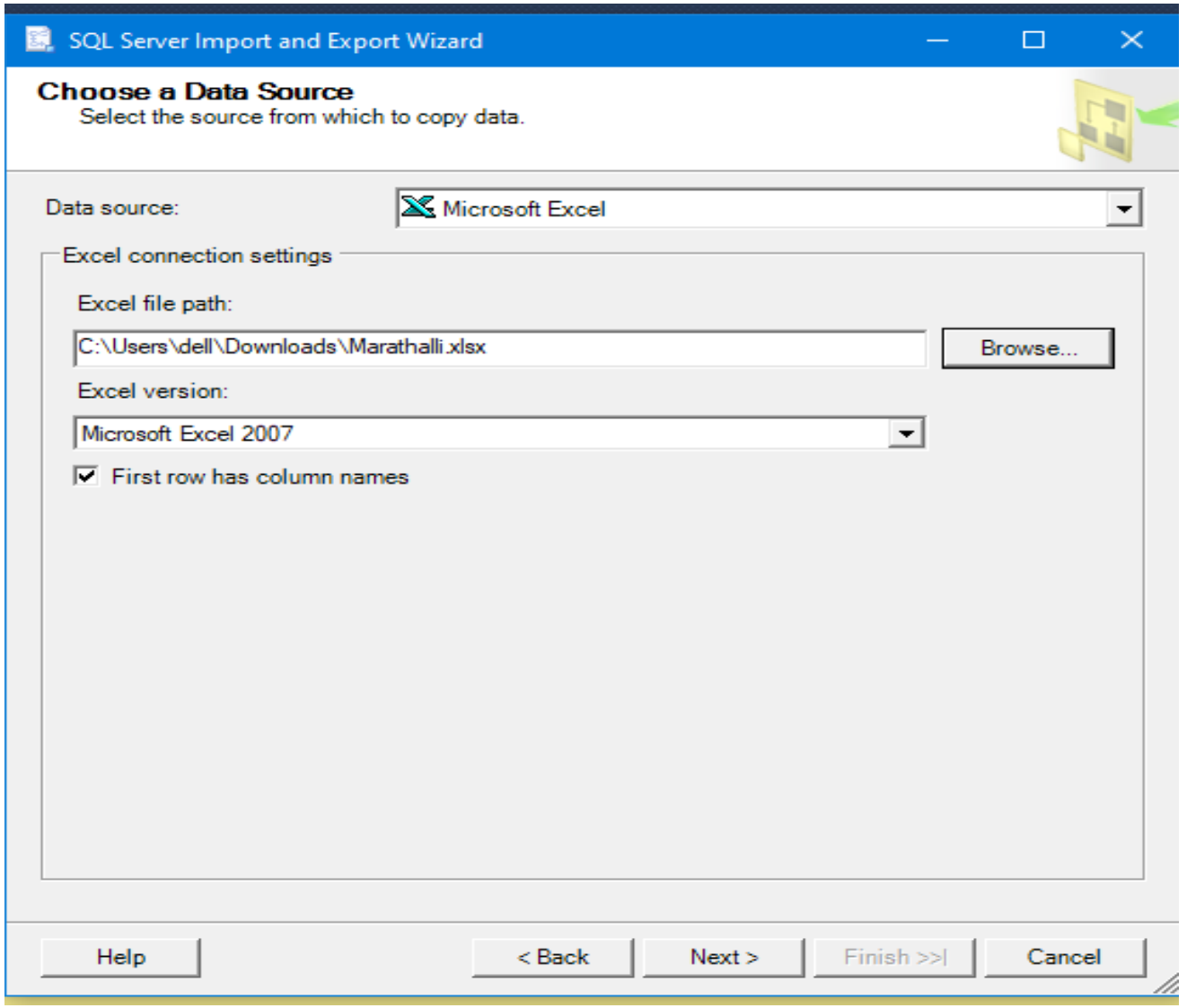
DATA LOADING IN DATABASE SQL SERVER



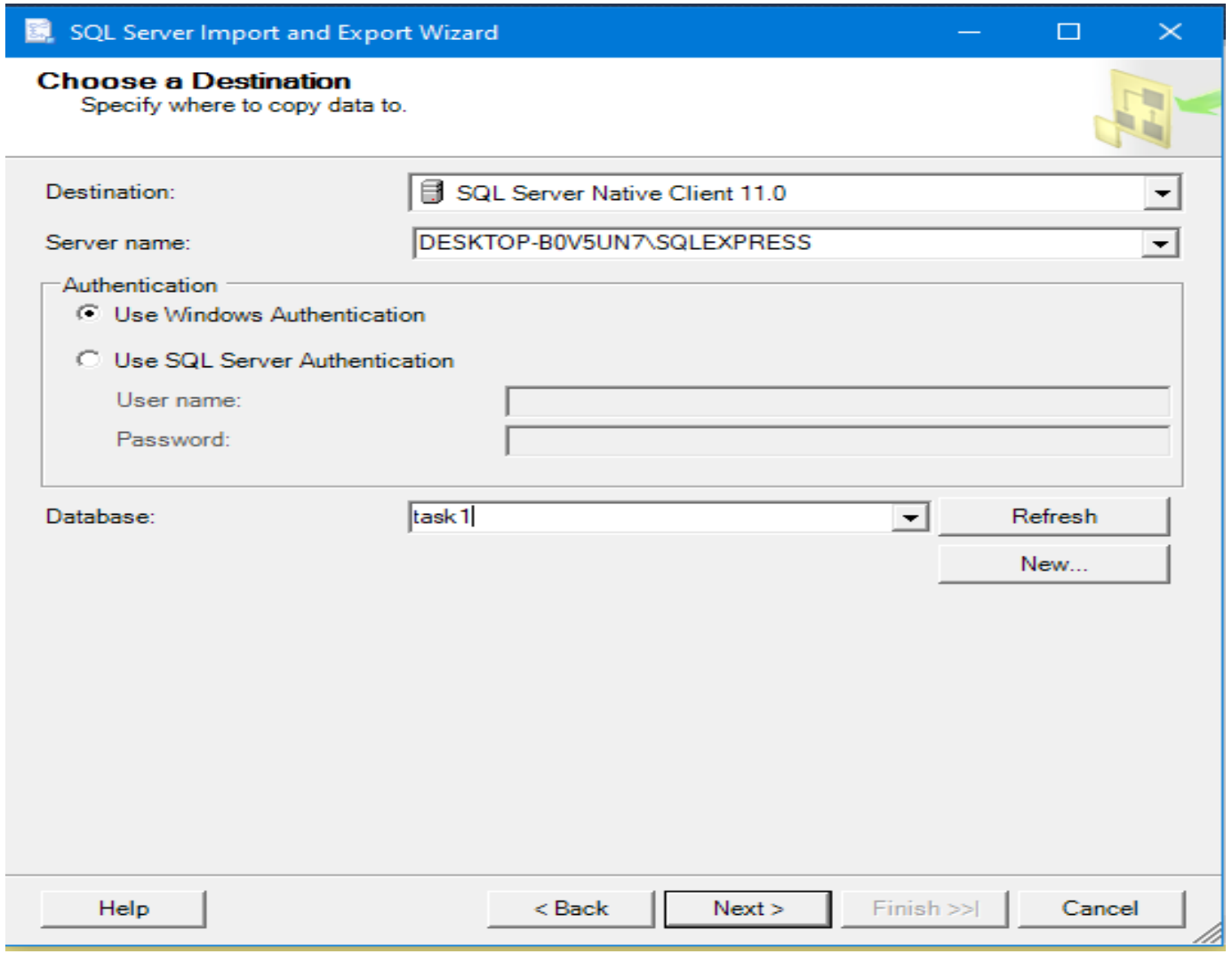
Extracting data from a SQL Server database using the SQL Server Import & Export Wizard. Specify the target database for storing the data during the process

DATA LOADING IN DATABASE SQL SERVER

After selecting the data source, import the data into Excel. Copy the path of the Excel sheet for further use



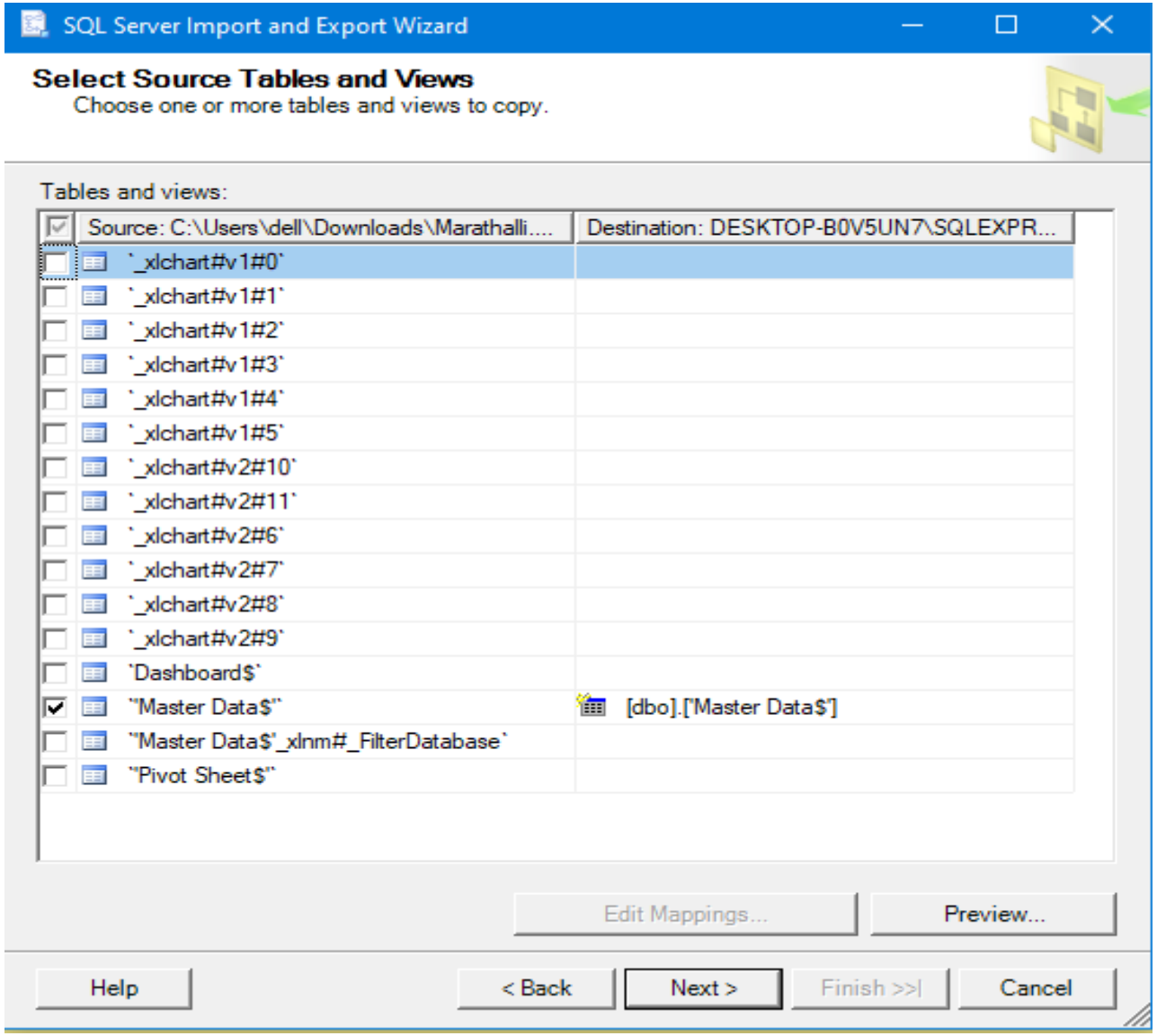
DATA LOADING IN DATABASE SQL SERVER



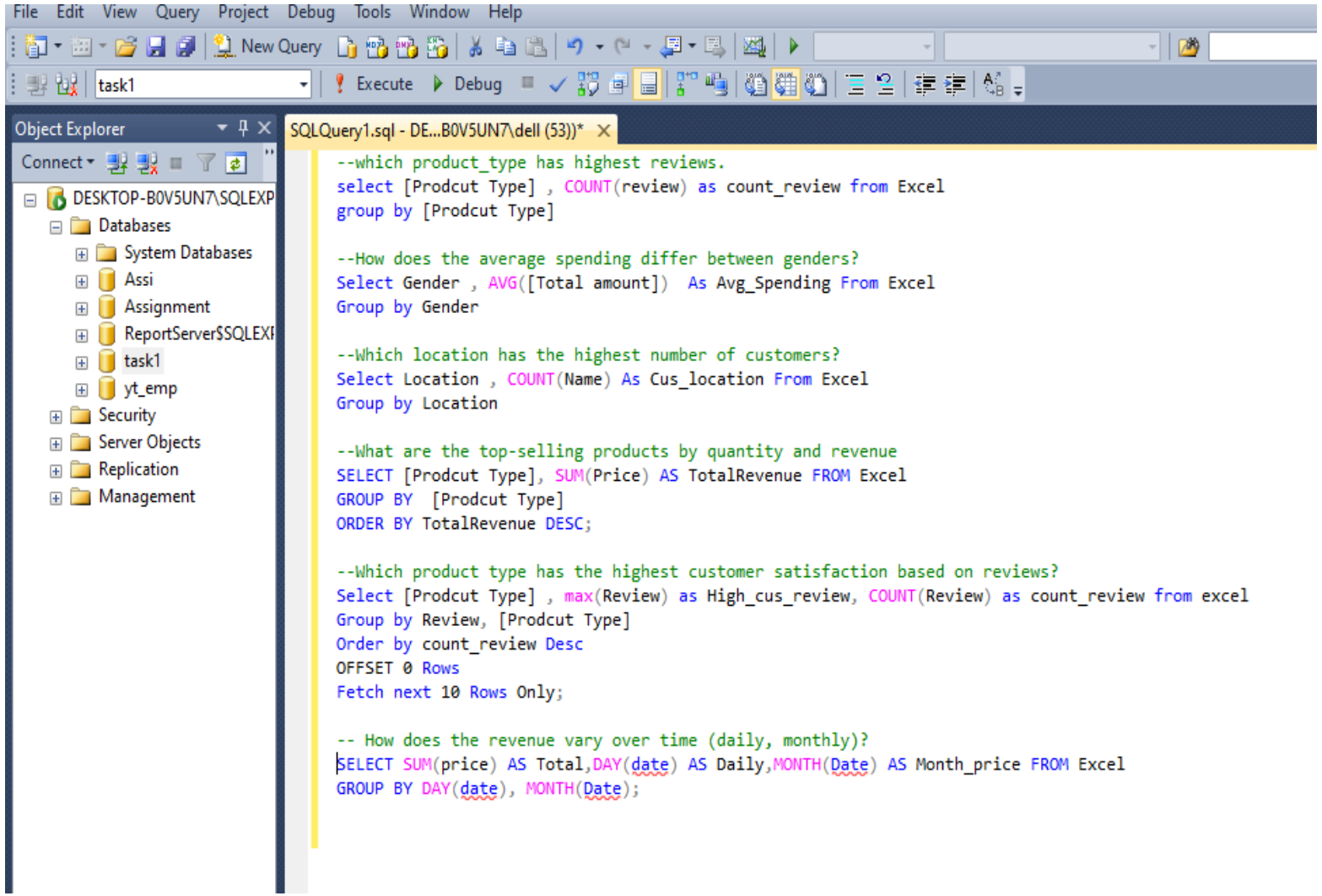
After selecting the data import path from Excel, choose the export path, specifically using "SQL Server Native Client." The target database name is "Task 1."

DATA LOADING IN DATABASE SQL SERVER

After exporting, choose the specific Excel sheet where your data resides. In my Excel, the sheet is named "Master Data".



DATA LOADING IN DATABASE SQL SERVER



* Changing the table name to "sheet 1$" To "Excel during importing.

*Use query as per required data.

* Using Aggregate function,Date and time function for collecting data as per condition.

DATA LOADING IN DATABASE SQL SERVER

Extracting data using “MAX” , “COUNT”,”DAY”,”MONTH”,”YEAR” and “OFFSET” ,”FETCH” function to restrict results.

SQLQuery1.sql - DE...B0V5UN7\dell (53))*

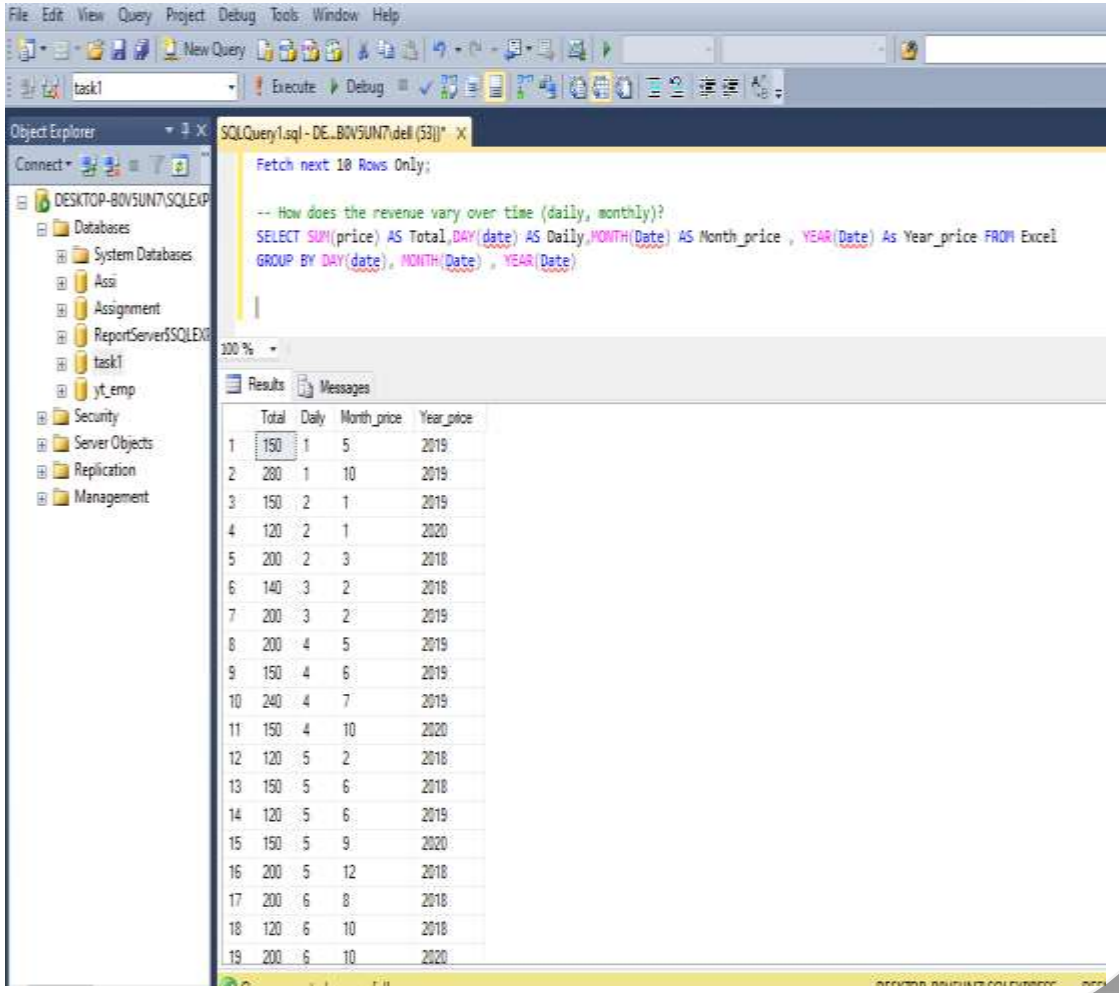
```
--Which product type has the highest customer satisfaction based on reviews?
Select [Prodcut Type] , max(Review) as High_cus_review, COUNT(Review) as count_review from excel
Group by Review, [Prodcut Type]
Order by count_review Desc
OFFSET 0 Rows
Fetch next 10 Rows Only;

-- How does the revenue vary over time (daily, monthly)?
```

100 %

Results | Messages

	Prodcut Type	High_cus_review	count_review
1	Veggi Pizza	Good	11
2	Veggi Pizza	Excellent	10
3	Chicken Pizza	Good	9
4	Spicy Panner Pizza	Good	9
5	Margherita Pizza	Average	7
6	Chicken Pizza	Not Available	7
7	Spicy Panner Pizza	Bad	7
8	Chicken Pizza	Excellent	6
9	Veggi Pizza	Average	6
10	Margherita Pizza	Good	5



DATA VISULIZATION USING EXCEL

Review	Count_Review
Average	18
Bad	13
Excellent	22
Good	34
Not Available	13

Location	Cus_location
BTM	30
J.P Nagar	9
Kormangala	23
Maratthahalli	32
Not Available	6

Prodcut Type	TotalRevenue
Chicken Pizza	5400
Veggi Pizza	4620
Spicy Panner Pizza	3160
Margherita Pizza	2280

Prodcut Type	High_cus_review	count_review
Veggi Pizza	Good	11
Veggi Pizza	Excellent	10
Chicken Pizza	Good	9
Spicy Panner Pizza	Good	9
Margherita Pizza	Average	7
Chicken Pizza	Not Available	7
Spicy Panner Pizza	Bad	7
Chicken Pizza	Excellent	6
Veggi Pizza	Average	6
Margherita Pizza	Good	5

Row Labels	Sum of Total amount
Afternoon	47494
Evening	22720
Morning	6581
Grand Total	**76795**

Row Labels	Sum of Total amount
Afternoon	**47494**
BTM	**12370**
Cash	3970
Online	8400
J.P Nagar	**2870**
Cash	1000
Online	1870
Kormangala	**11170**
Cash	5770
Online	5400
Maratthahalli	**20904**
Cash	9334
Online	11570
Not Available	**180**
Evening	**22720**
BTM	**6940**
Cash	2300
Online	4640
J.P Nagar	**1800**
Online	1800
Kormangala	**8780**
Cash	1600
Online	7180
Maratthahalli	**3700**
Cash	2300

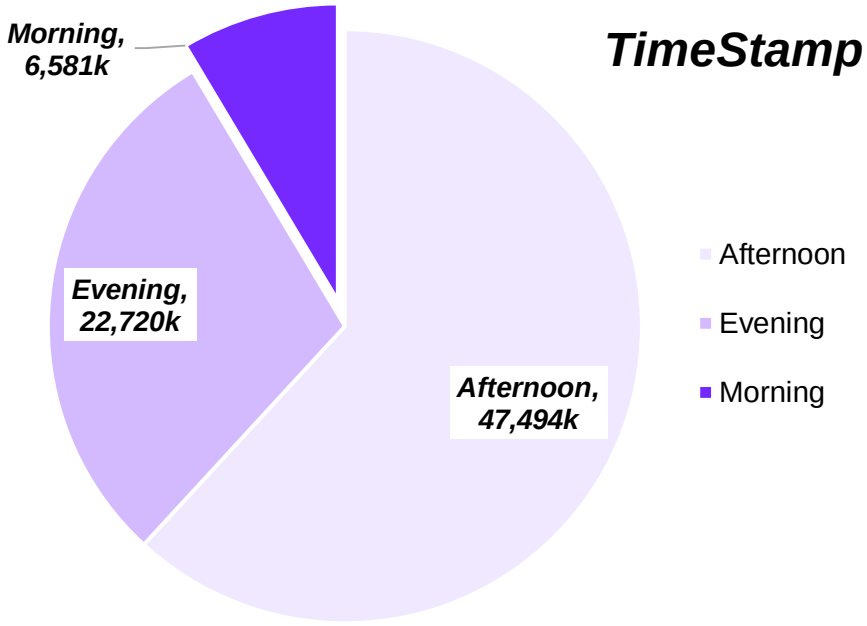
Row Labels	Sum of Total amount
2006	**400**
Qtr2	**400**
2018	**24485**
Qtr1	**9568**
Qtr2	**4804**
Qtr3	**7600**
Qtr4	**2513**
2019	**31390**
Qtr1	**2870**
Qtr2	**12500**
Qtr3	**6900**
Qtr4	**9120**
2020	**20520**
Qtr1	**2700**
Qtr2	**5280**
Qtr3	**8000**
Qtr4	**4540**
Grand Total	**76795**

Row Labels	Sum of Pid
Average	9960
Bad	4983
Excellent	9384
Good	13056
Not Available	7003
Grand Total	**44386**

Row Labels	Sum of Total amount
Afternoon	**47494**
Chicken Pizza	10600
Margherita Pizza	13770
Spicy Panner Pizza	13374
Veggi Pizza	9750
Evening	**22720**
Chicken Pizza	5550
Margherita Pizza	2400
Spicy Panner Pizza	5900
Veggi Pizza	8870
Morning	**6581**
Chicken Pizza	913
Margherita Pizza	181
Spicy Panner Pizza	3400
Veggi Pizza	2087
Grand Total	**76795**

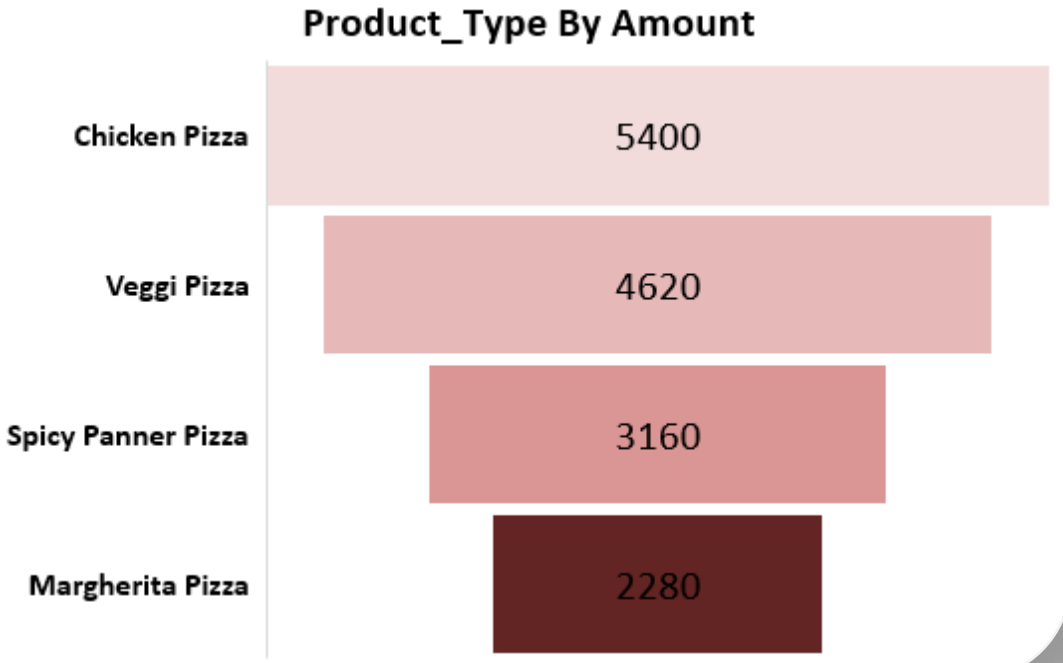
DATA VISULIZATION USING EXCEL

UPON VISUALLY ANALYZING THE DATA FROM K PIZZA RESTAURANT, IT IS OBSERVED THAT.

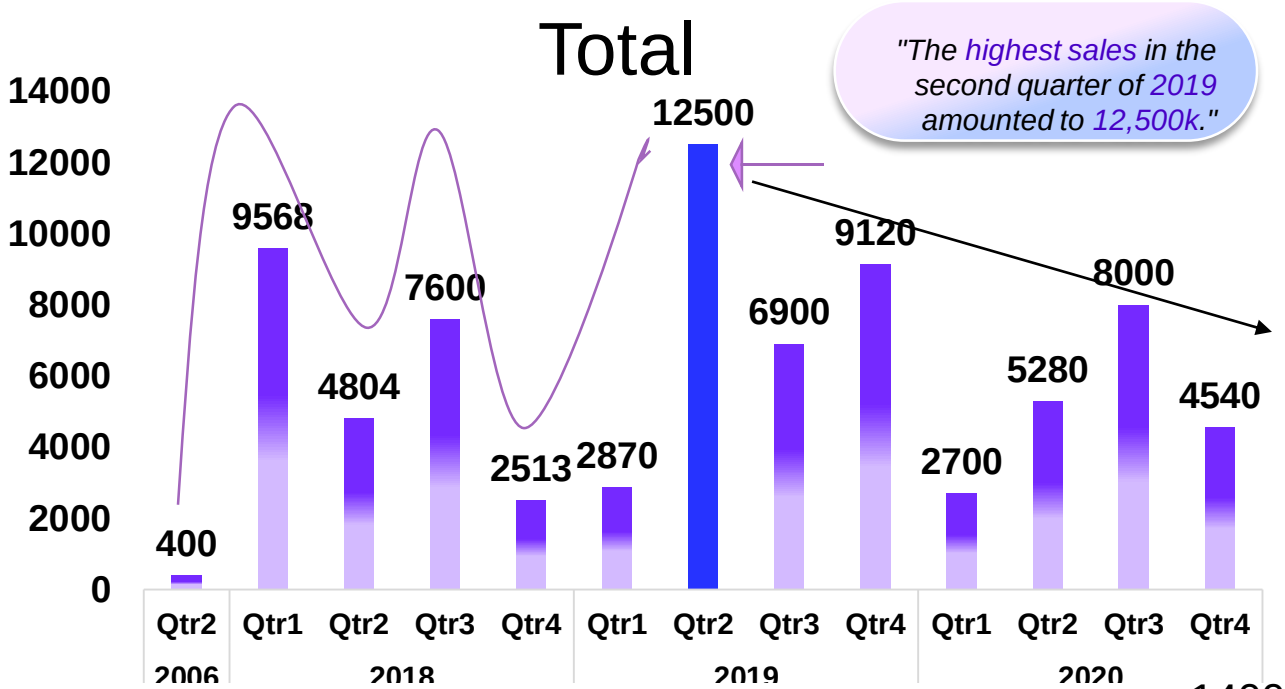


The timestamp with the highest sales was in the afternoon, reaching a total of "47,494k

Chicken pizza is the most favored, with a total of "5400," while Margherita pizza is the least favored, with "2280".

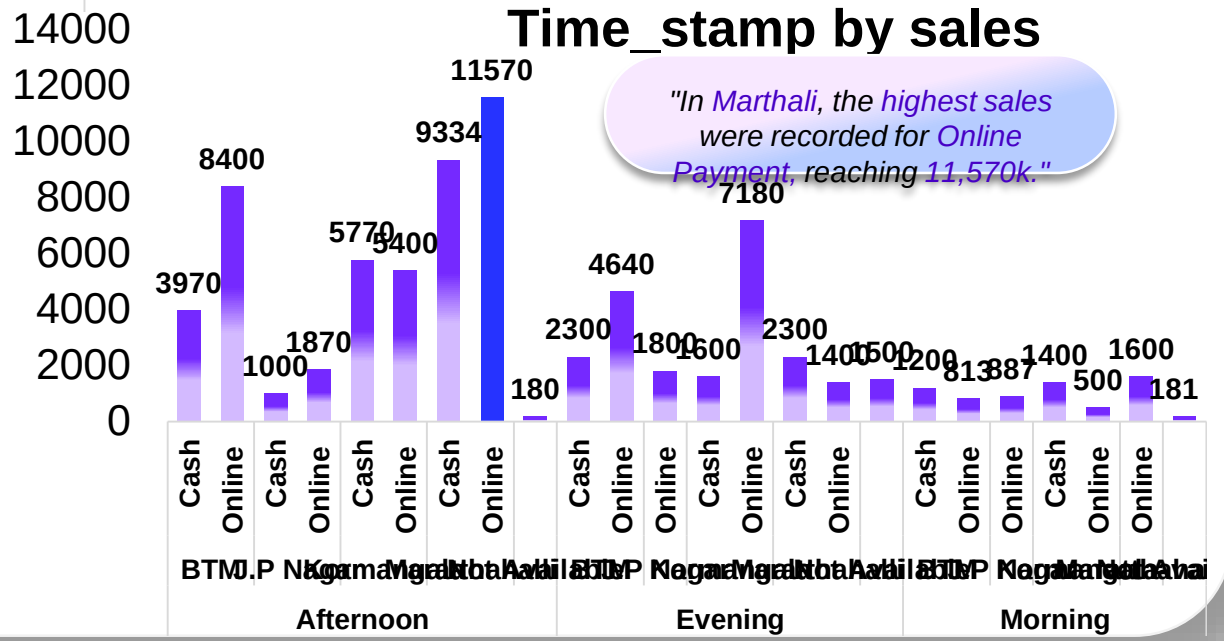


DATA VISULIZATION USING EXCEL

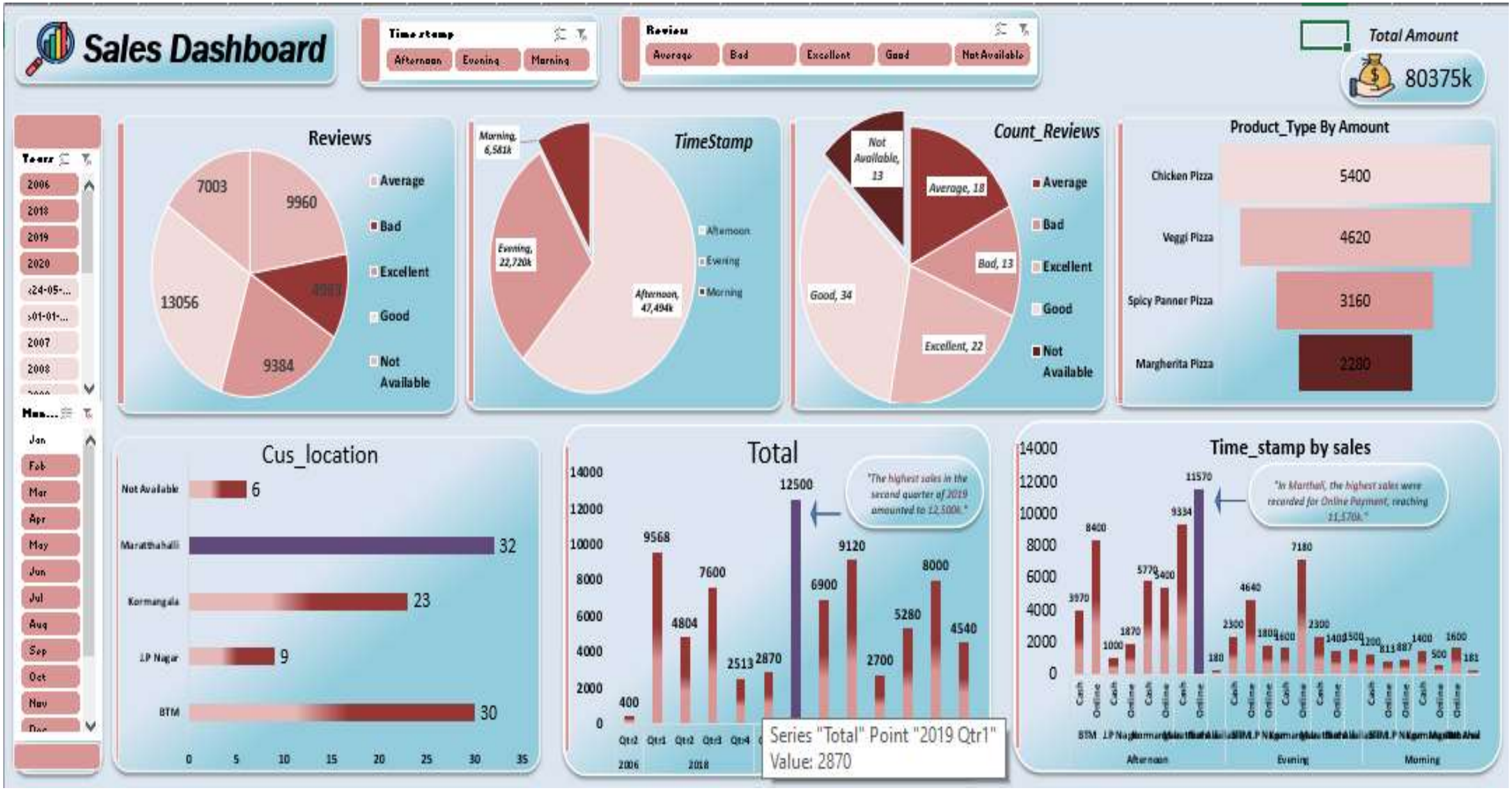


In 2019 Qtr 2, the highest sales were recorded at "12500." However, from Qtr 3 in 2019 onwards up to Qtr 4 in 2020, we observe a decline in sales. We need to investigate the reasons behind this trend

"In Marthali, the highest sales were recorded for Online Payment, reaching 11,570k."



DASHBOARD OF K PIZZA



THANK YOU