Explotary Analysis on Zomato Dataset

SQL stands for Structured Query Language. It is the standard language to interact with databases. **SQL** is the most important tool, a data analyst uses to manipulate and gain insights from the data. In this project,I will try to process, and analyze the data, for this purpose we will use this *Zomato Dataset*

And in this file there are 2 Excel files with name Country & Zomato

For this project, I will be using Microsoft SQL Server Management Studio 18 . You can download it from **here**. Microsoft SQL Server Management Studio 18 is an open-source relational database management system. Feel free to use any other RDBMS software. So that now we have our software setup, then let's import the dataset into our database.

IMPORTING DATA

To import the data in Microsoft SQL Server Management Studio 18 follow the given steps, as the dataset is in Excel format we have to import the data using *the* SQL import and Export tool provided by Microsoft .

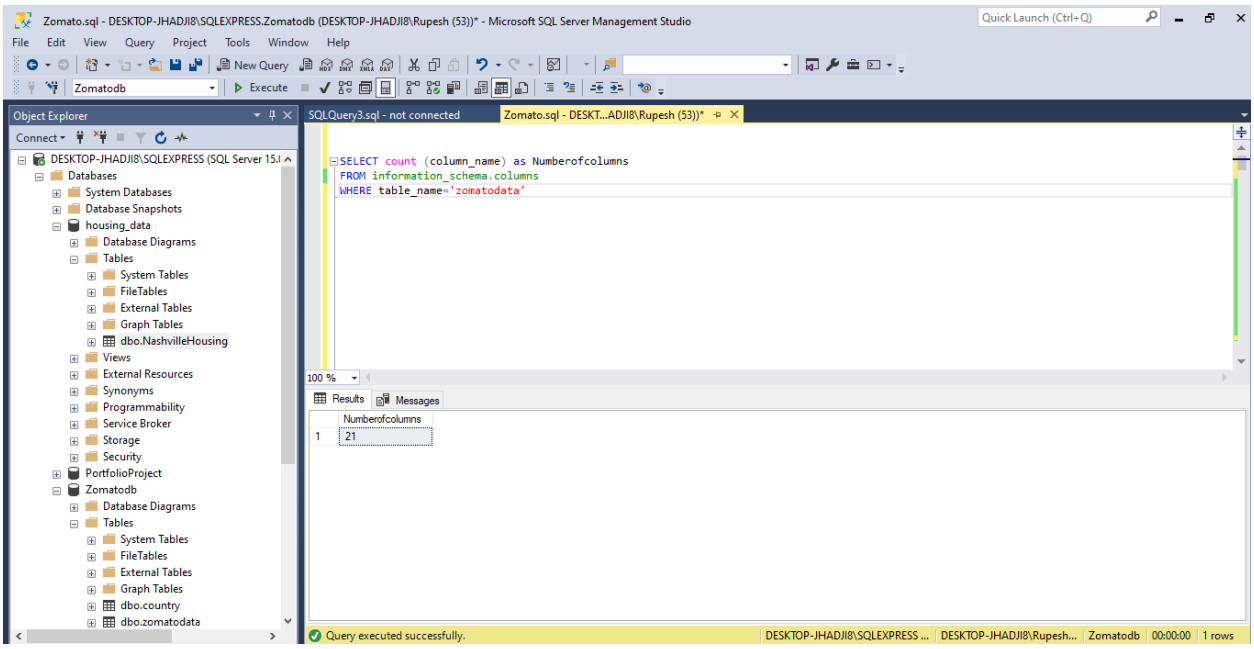
1. Create a database named ***zomatodb.***
2. Then open SQL import and Export Server tool then load the Excel File.
3. Finally, click on the Next button to execute the task, and the dataset is successfully imported

Final Summary after EDA:

1) There are 15 Countries and 141 Cities where Zomato are Present .
2) India has the highest 8652 resturant which are comnnected to Zomato.
3) There are 4049 resturant has poor rating less than 3.
4) In India (Toit-Resturant) Has the Highest number of Votes and Excellent Rating given by Customer.
5) Average price spent for 2 people on Zomato in india is 623 Rs.
6) 5 countries with most resturant linked with zomato India US,UK,Brazil,South Africa.
7) North indian cuisines are most popular in zomato India.
8) In this 5 cities zomato must have to improve their food quality and services and those cities are Faridabad,Ghaziabad Gurgaon Newdelhi and Noida.

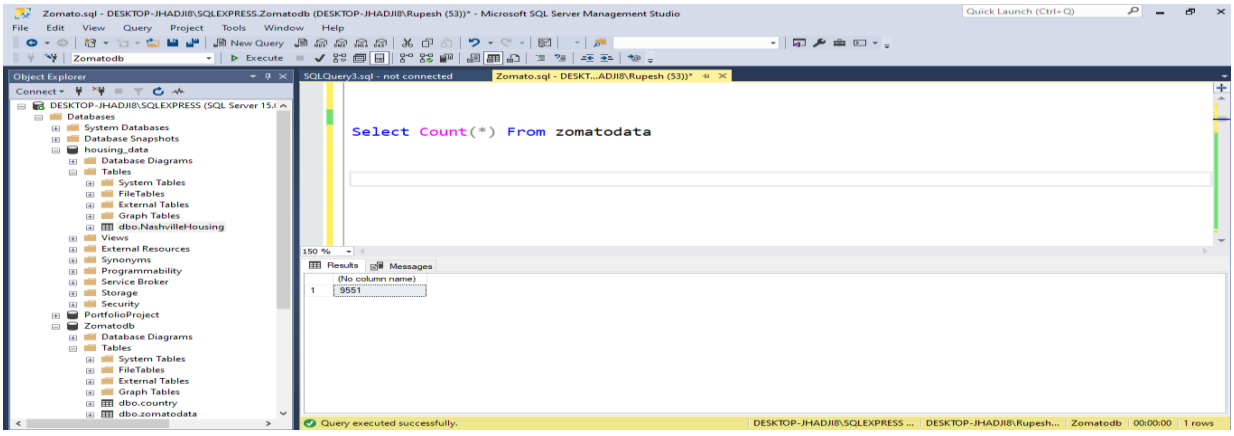
Number of COlumns in Zomatodata Table

```
SELECT count (column_name) as Numberofcolumns
FROM information_schema.columns
WHERE table_name='zomatodata'
```



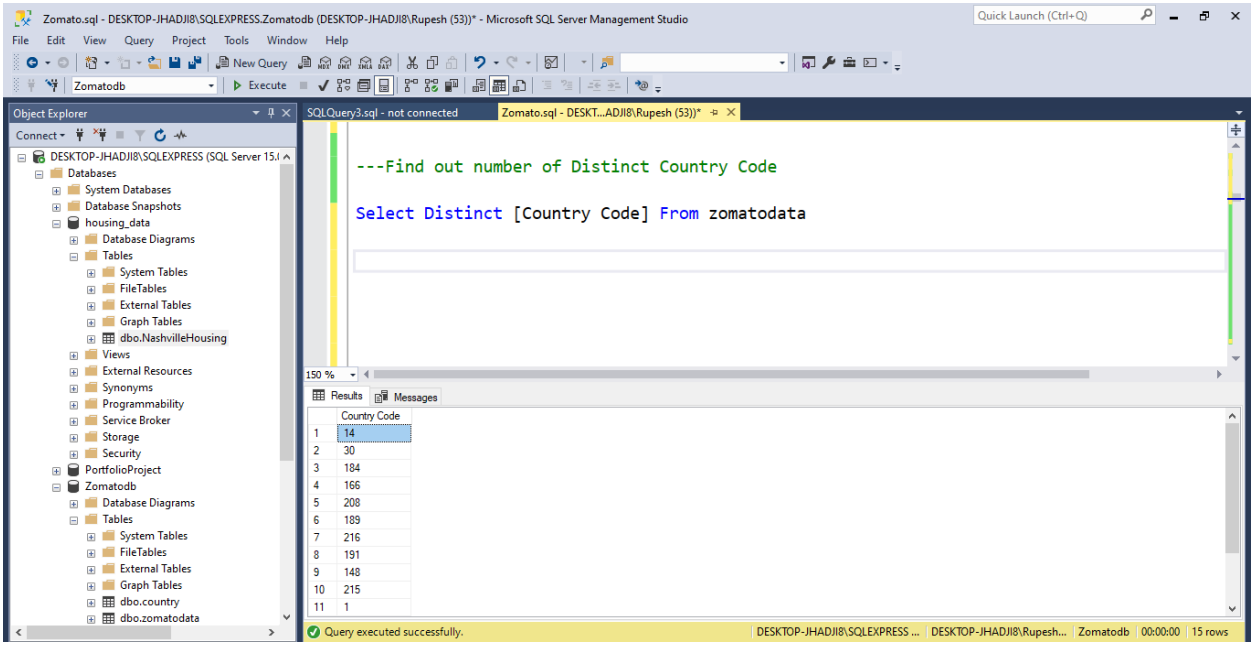
Number of rows in Data

```
Select Count(*) From zomatodata
```



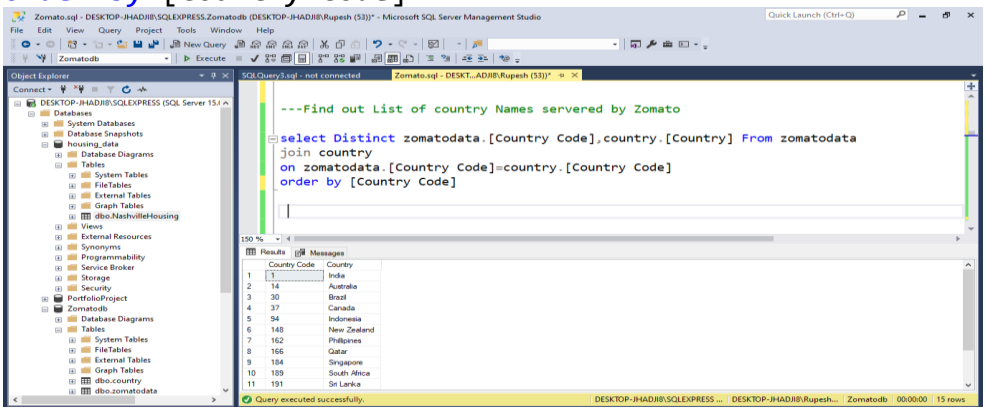
Find out number of Distinct Country Code

```
Select Distinct [Country Code] From zomatodata
```



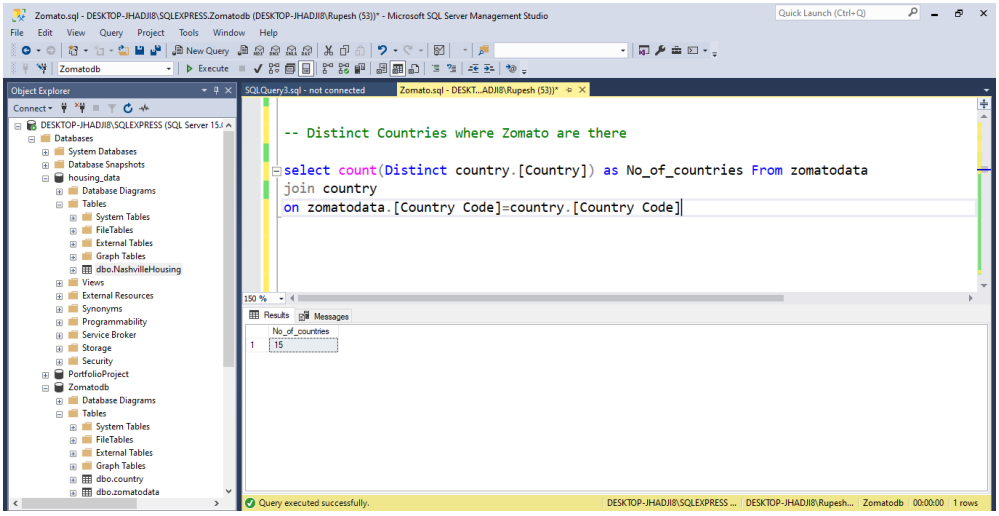
Find out List of country Names servered by Zomato

```
select Distinct zomatodata.[Country Code],country.[Country] From
zomatodata
join country
on zomatodata.[Country Code]=country.[Country Code]
order by [Country Code]
```



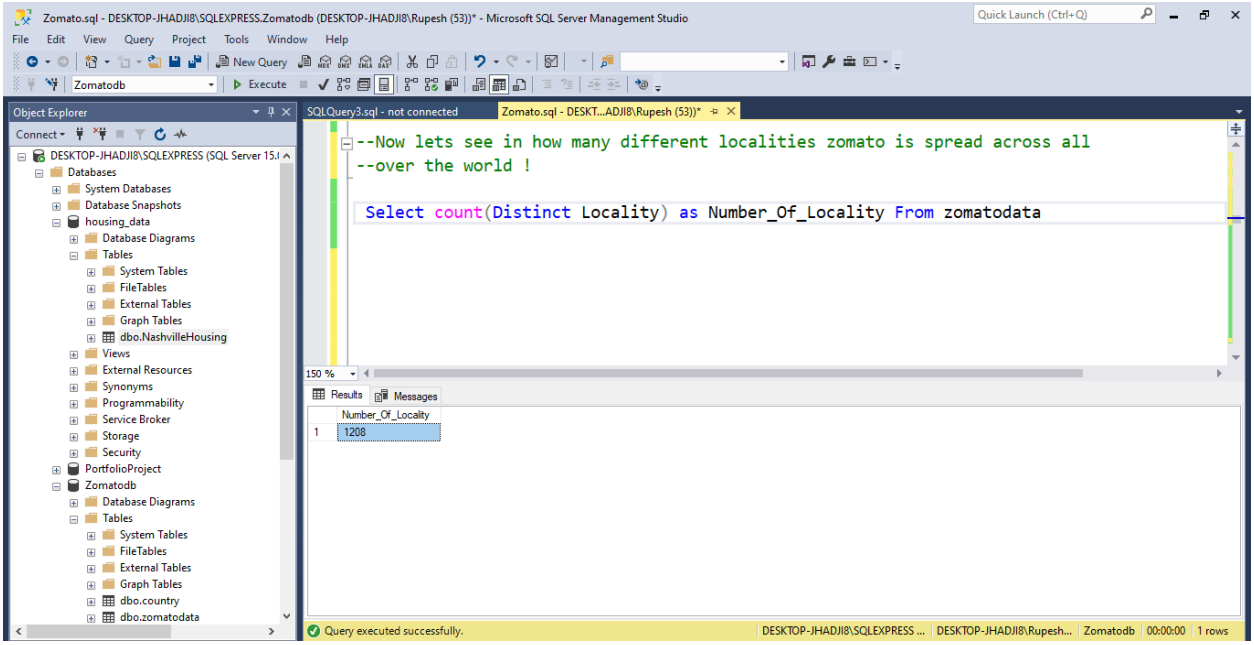
Distinct Countries where Zomato are there

```
select count(Distinct country.[Country]) as No_of_countries From
zomatodata
join country
on zomatodata.[Country Code]=country.[Country Code]
```



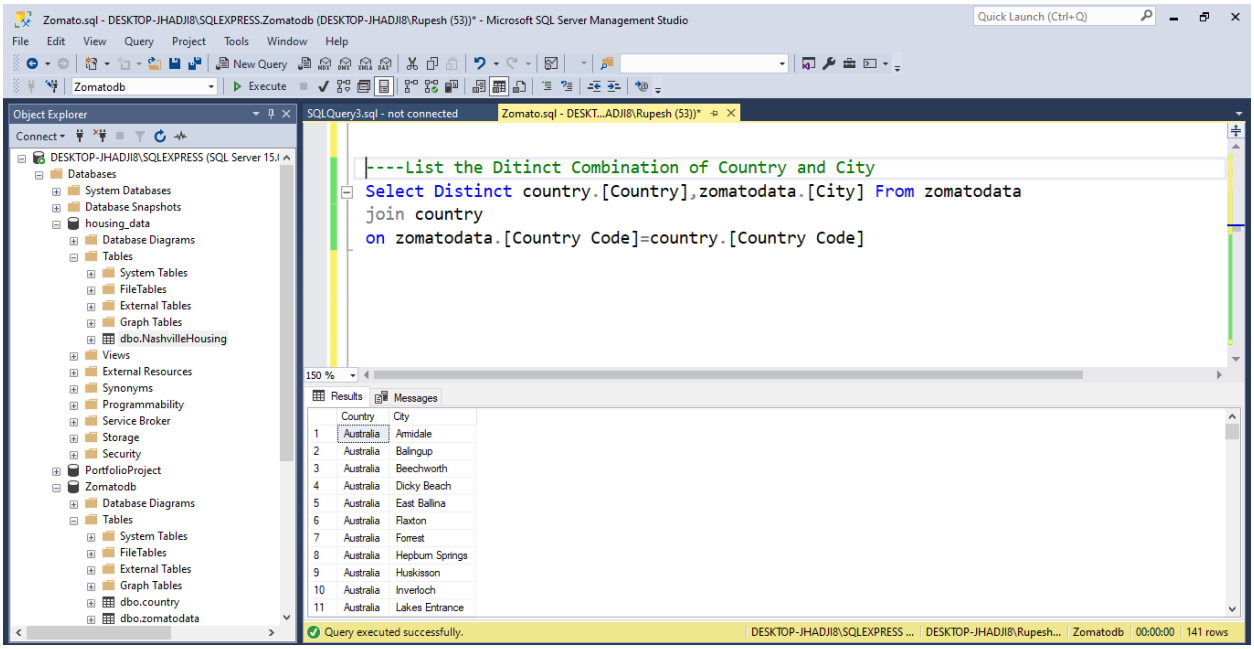
Now lets see in how many different localities zomato is spread across all over the world !

```
Select count(Distinct Locality) as Number_Of_Locality From zomatodata
```



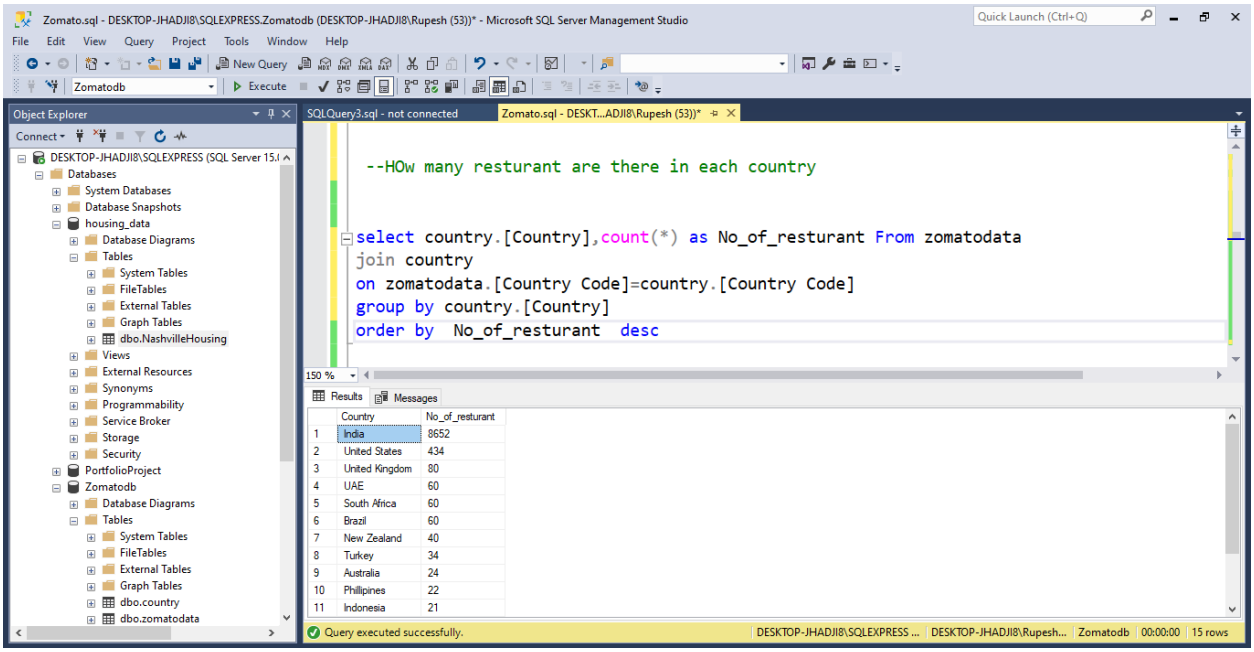
List the Ditinct Combination of Country and City

```
Select Distinct country.[Country],zomatodata.[City] From zomatodata
join country
on zomatodata.[Country Code]=country.[Country Code]
```



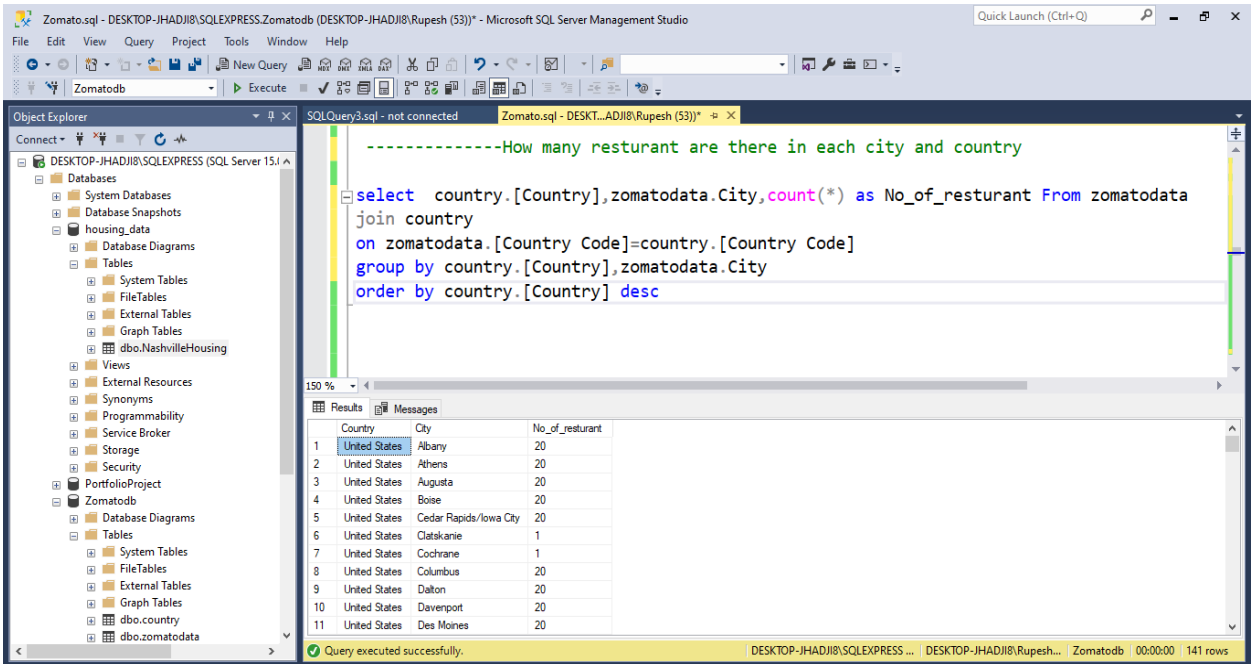
How many resturant are there in each country

```
select country.[Country],count(*) as No_of_resturant From zomatodata
join country
on zomatodata.[Country Code]=country.[Country Code]
group by country.[Country]
order by  No_of_resturant  desc
```



How many resturant are there in each city and country

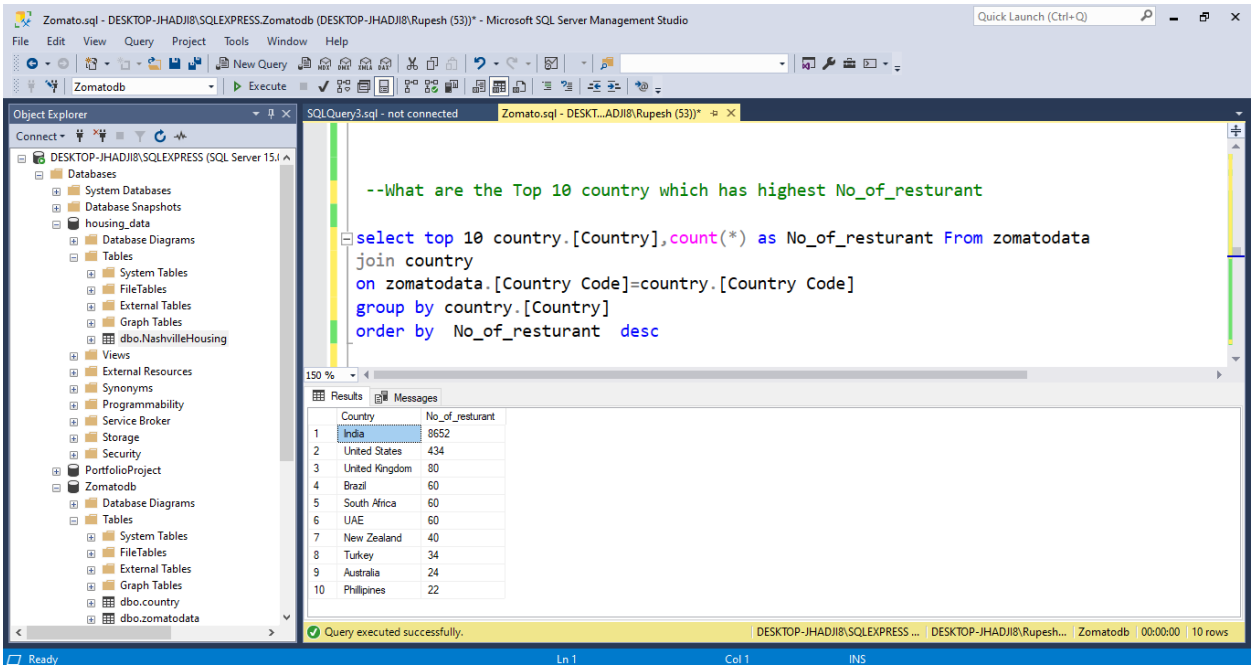
```
select  country.[Country],zomatodata.City,count(*) as No_of_resturant
From zomatodata
join country
on zomatodata.[Country Code]=country.[Country Code]
group by country.[Country],zomatodata.City
order by country.[Country] desc
```



	Country	City	No_of_resturant
1	United States	Albany	20
2	United States	Athens	20
3	United States	Augusta	20
4	United States	Boise	20
5	United States	Cedar Rapids/Iowa City	20
6	United States	Clatskanie	1
7	United States	Cochrane	1
8	United States	Columbus	20
9	United States	Dalton	20
10	United States	Davenport	20
11	United States	Des Moines	20

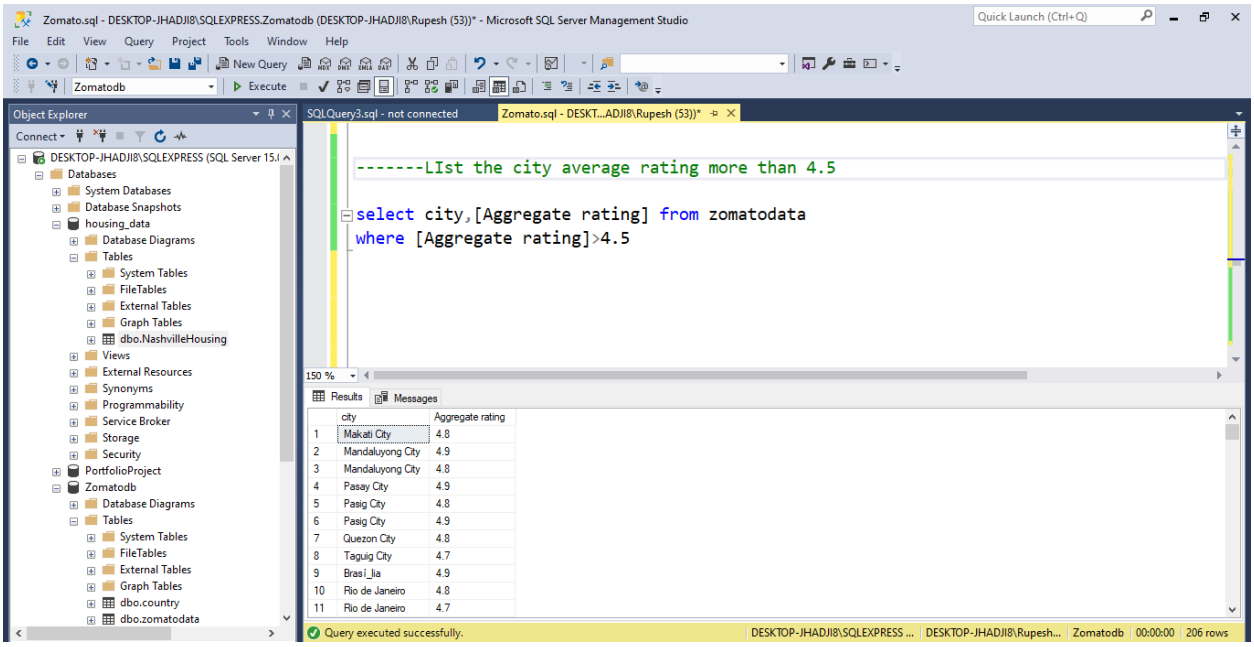
What are the Top 10 country which has highest No of resturant

```
select top 10 country.[Country],count(*) as No_of_resturant From
zomatodata
join country
on zomatodata.[Country Code]=country.[Country Code]
group by country.[Country]
order by  No_of_resturant  desc
```



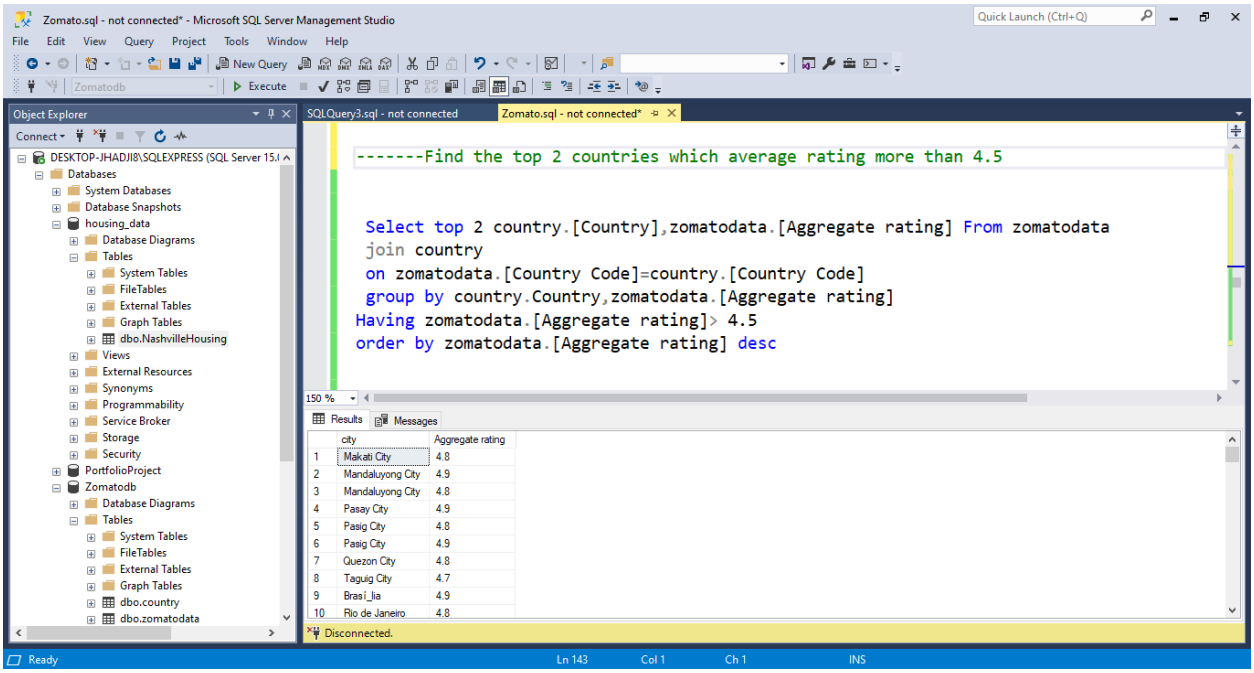
List the city average rating more than 4.5

```
select city,[Aggregate rating] from zomatodata
where [Aggregate rating]>4.5
```



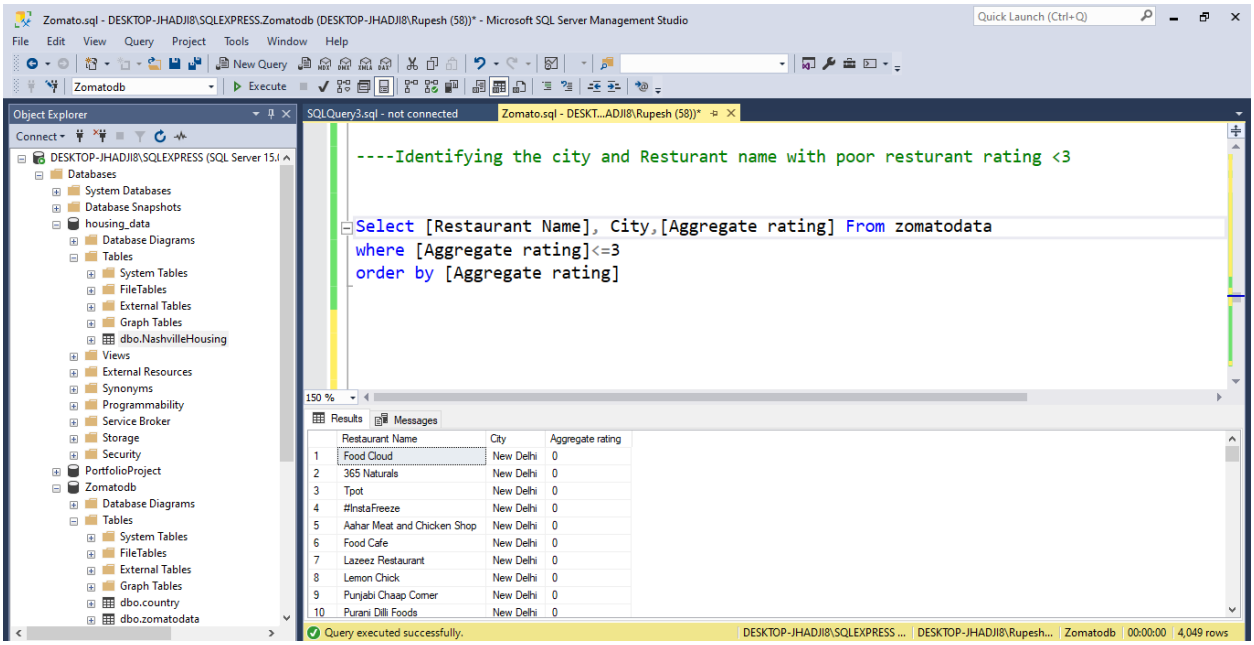
Find the top 2 countries which average rating more than 4.5

```
Select top 2 country.[Country],zomatodata.[Aggregate rating] From
zomatodata
join country
on zomatodata.[Country Code]=country.[Country Code]
group by country.Country,zomatodata.[Aggregate rating]
Having zomatodata.[Aggregate rating]> 4.5
order by zomatodata.[Aggregate rating] desc
```



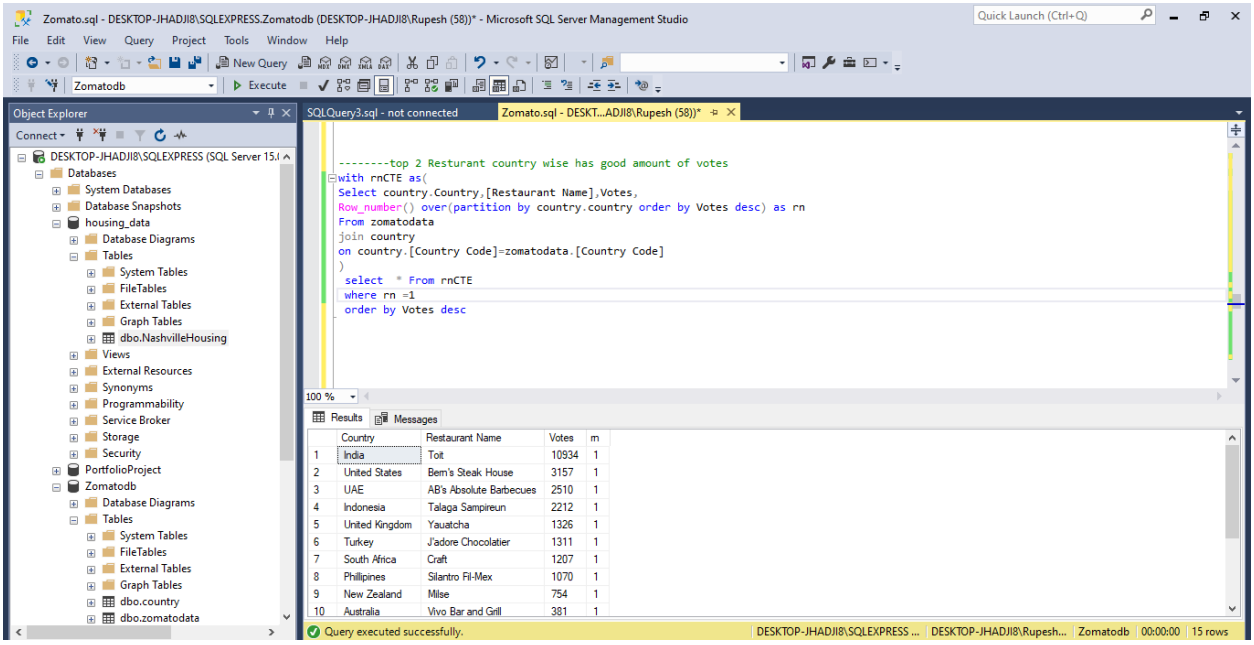
Identifying the city and Resturant name with poor resturant rating <3

```
Select [Restaurant Name], City,[Aggregate rating] From zomatodata
where [Aggregate rating]<=3
order by [Aggregate rating]
```



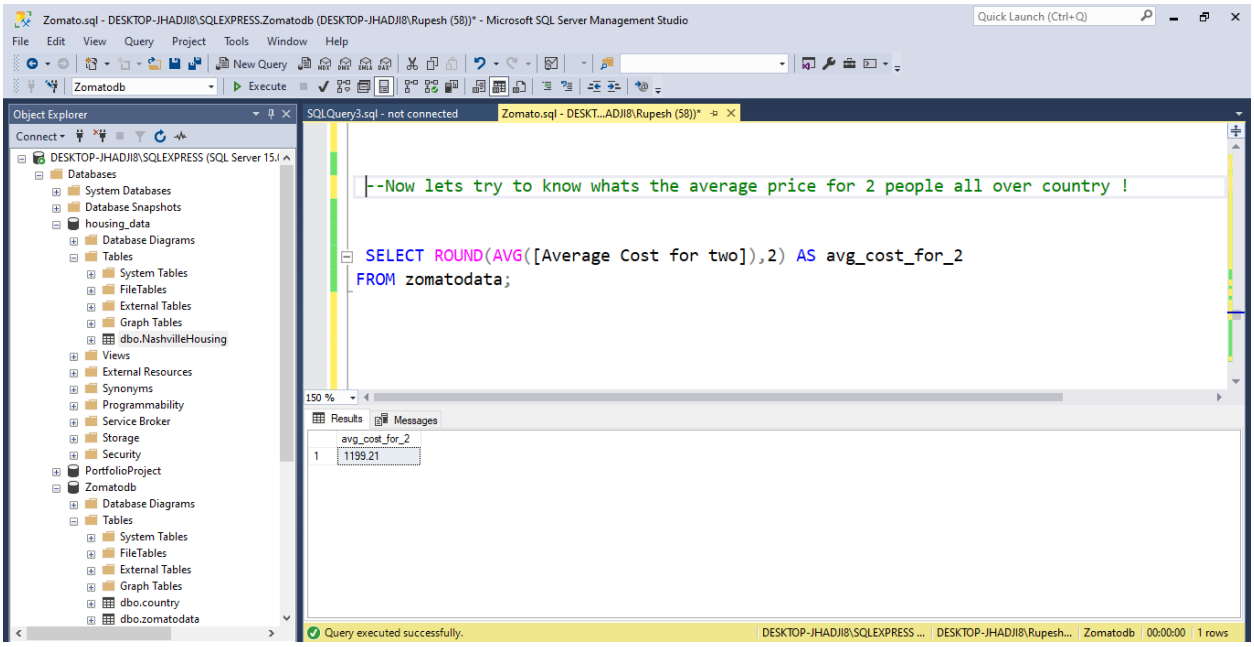
Top 2 Resturant country wise has good amount of votes

```
with rnCTE as(
Select country.Country,[Restaurant Name],Votes,
Row_number() over(partition by country.country order by Votes desc) as
rn
From zomatodata
join country
on country.[Country Code]=zomatodata.[Country Code]
)
 select  * From rnCTE
 where rn =1
 order by Votes desc
```



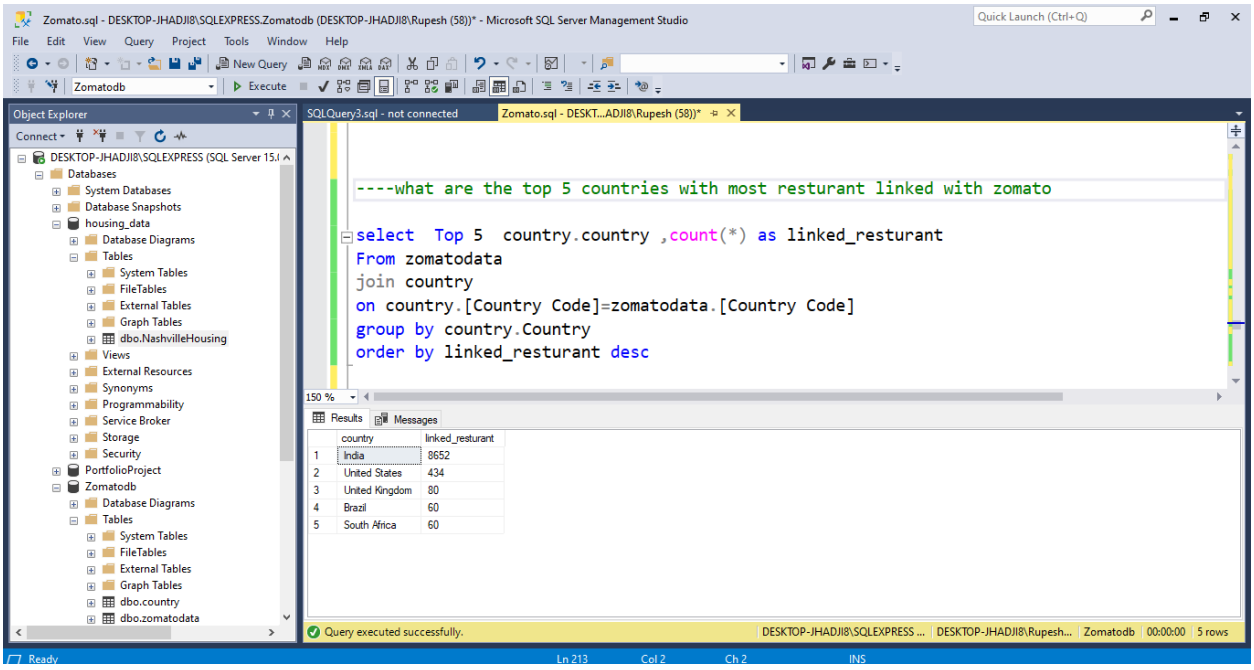
Now lets try to know whats the average price for 2 people all over country !

```
SELECT ROUND(AVG([Average Cost for two]),2) AS avg_cost_for_2
FROM zomatodata;
```



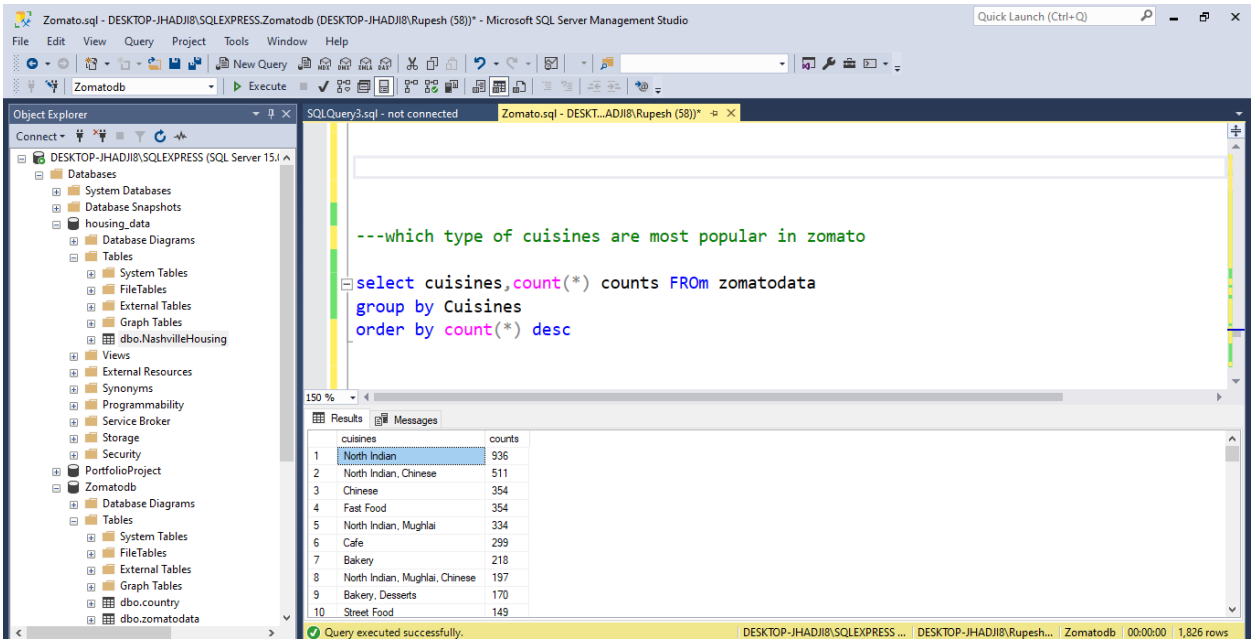
what are the top 5 countries with most resturant linked with zomato

```
select  Top 5  country.country ,count(*) as linked_resturant
From zomatodata
join country
on country.[Country Code]=zomatodata.[Country Code]
group by country.Country
order by linked_resturant desc
```



which type of cuisines are most popular in zomato

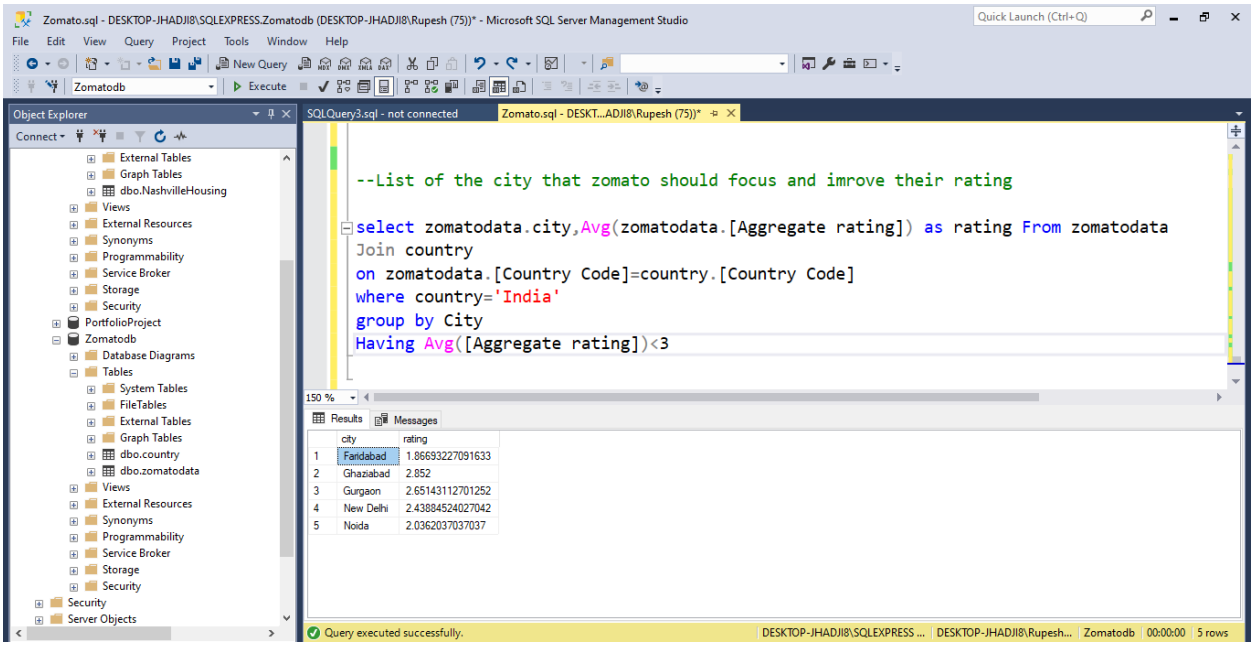
```
select cuisines,count(*) counts FROm zomatodata
group by Cuisines
order by count(*) desc
```



	cuisines	counts
1	North Indian	936
2	North Indian, Chinese	511
3	Chinese	354
4	Fast Food	354
5	North Indian, Mughlai	334
6	Cafe	299
7	Bakery	218
8	North Indian, Mughlai, Chinese	197
9	Bakery, Desserts	170
10	Street Food	149

List of the city that zomato should focus and imrove their rating

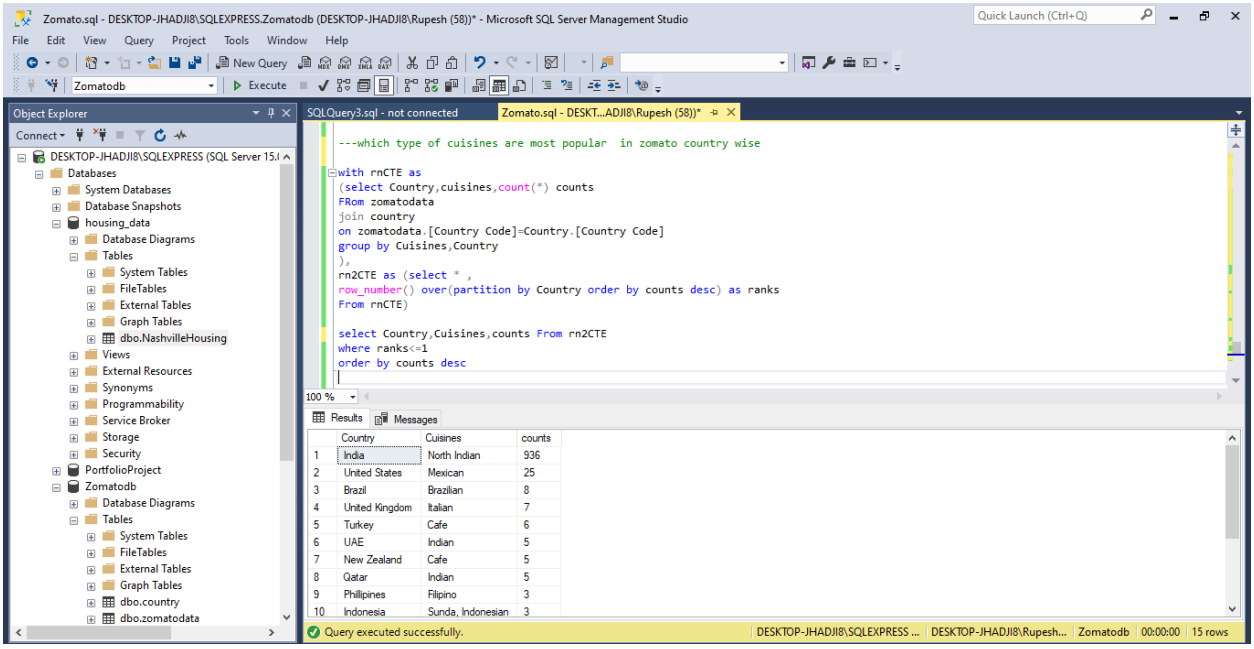
```sql
select zomatodata.city,Avg(zomatodata.[Aggregate rating]) as rating
From zomatodata
Join country
on zomatodata.[Country Code]=country.[Country Code]
where country='India'
group by City
Having Avg([Aggregate rating])<3
```



which type of cuisines are most popular in zomato country wise

```sql
with rnCTE as
(select Country,cuisines,count(*) counts
FRom zomatodata
join country
on zomatodata.[Country Code]=Country.[Country Code]
group by Cuisines,Country
),
rn2CTE as (select * ,
row_number() over(partition by Country order by counts desc) as ranks
From rnCTE)

select * From rn2CTE
where ranks<=1
order by counts desc
```



	Country	Cuisines	counts
1	India	North Indian	936
2	United States	Mexican	25
3	Brazil	Brazilian	8
4	United Kingdom	Italian	7
5	Turkey	Cafe	6
6	UAE	Indian	5
7	New Zealand	Cafe	5
8	Qatar	Indian	5
9	Phillipines	Filipino	3
10	Indonesia	Sunda, Indonesian	3