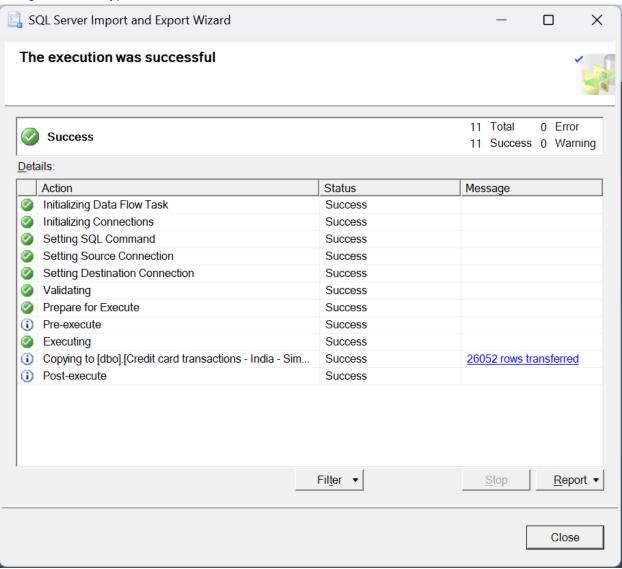
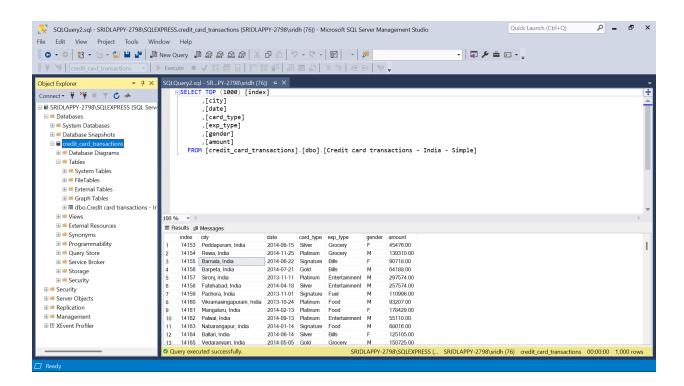
Import the CSV file into SQL server.

Before importing,
change the column names to lower case
replace space within column names with underscore
change the data types of columns

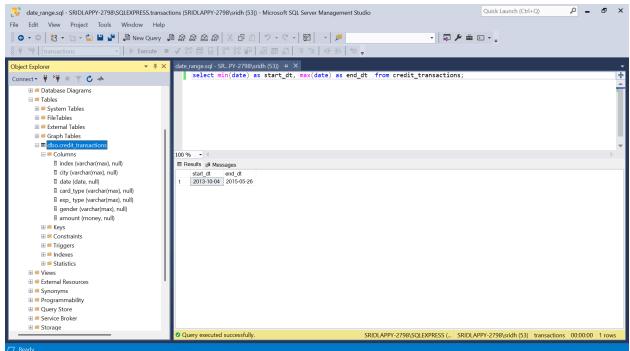


Below is the data preview

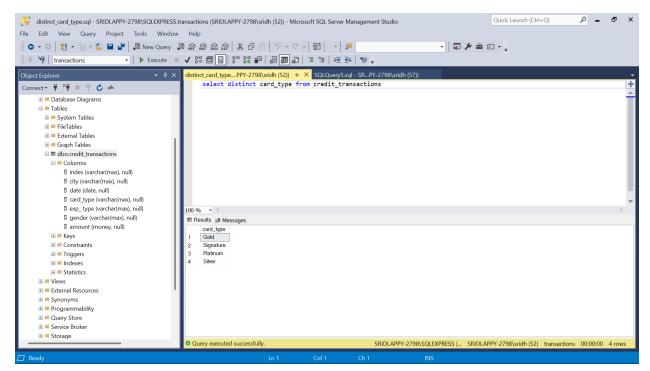


I explored the dataset initially, by using few SQL queries

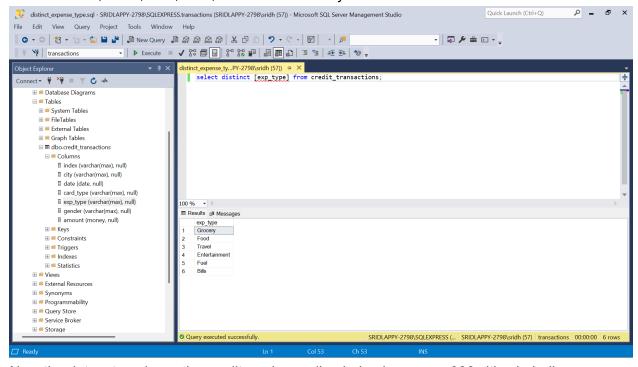
To see the date ranges in my dataset, I used the below query



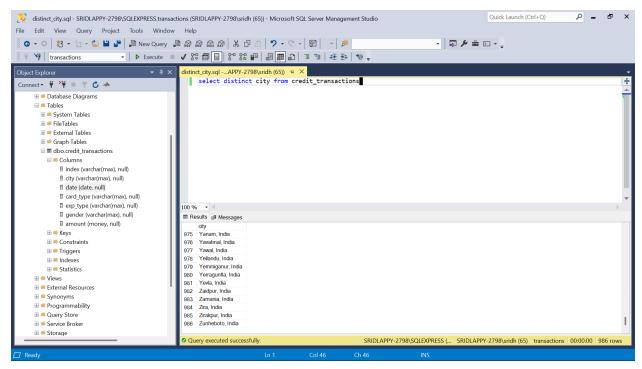
To see the different types of cards, I can see that the four different types of cards in the dataset are Gold, Signature, Platinum and Silver.



I see that the different types of expenses on which credit cards were used caters to Entertainment, Food, Bills, Fuel, Travel and Grocery

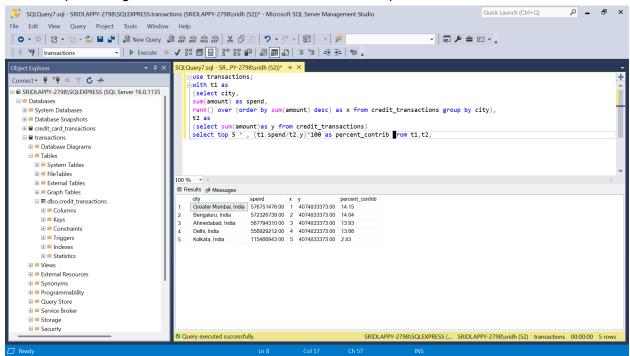


Also, the dataset analyzes the credit card spending behavior across 986 cities in India



Analysis:

I tried to see the top 5 cities which are having the highest spends and how they are contributing towards total credit card spends. From the below query I found that, "Greater Mumbai" city tops the list in percentage contribution towards total credit card spends

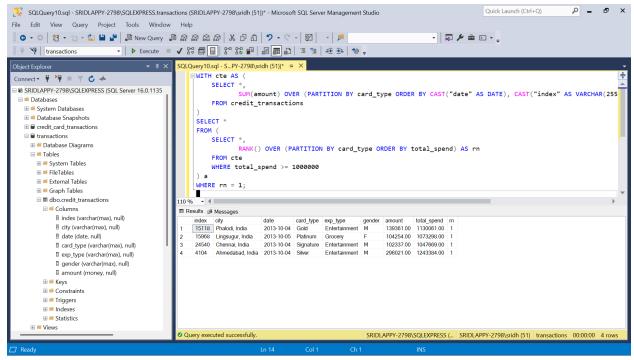


From the below query, I can see that,

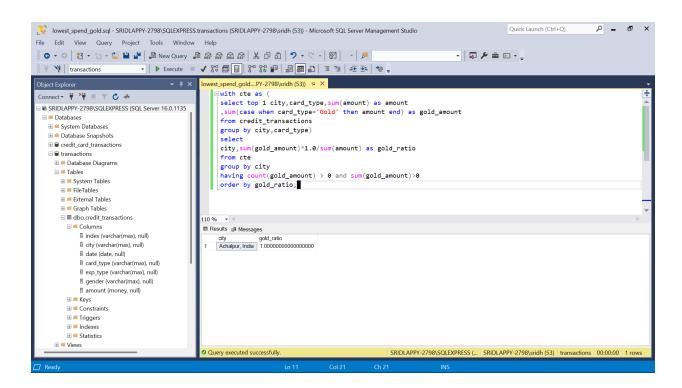
"Gold" type cards are used most during the month of "January".

- "Platinum" type cards is being most used during the month of August
- "Signature" type cards is being most used during the month of December
- "Silver" type cards is being most used during the month of March

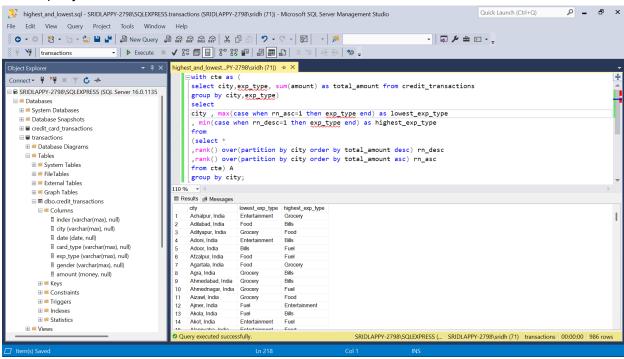
To identify key transactions contributing to milestones or thresholds in spending for reporting and detecting significant patterns, I used the below query



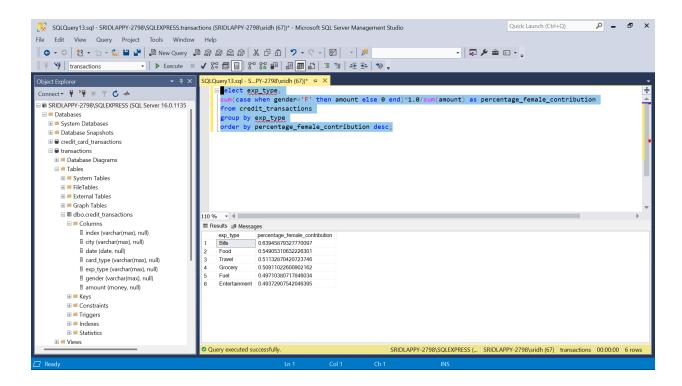
"Achalpur, India" is the city with lowest credit card spend for gold card type as below



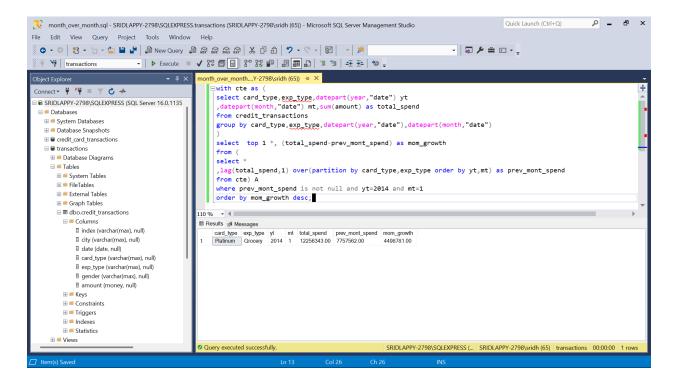
To see, the highest spend and lowest spend on different expenses across each city, I used the below query



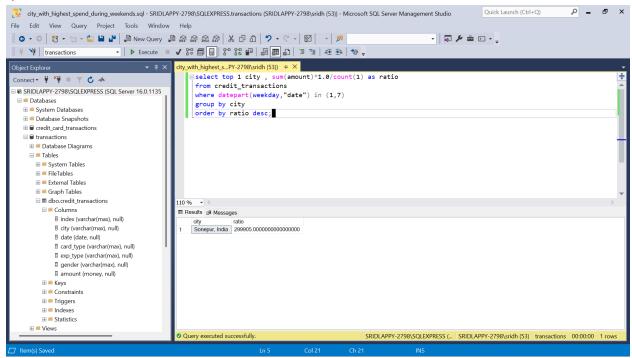
To see what percentage of transactions are from female consumers, I used the below query and I found that highest percentage of transactions were in "Bills" category from female consumers.



To see the combination of "card" and "expense_type" which saw the highest month over month growth rate in jan 2014, I used below query and I found that the combination of "Platinum" card and "Grocery" expense type has the highest month over month growth



To find which city has the highest "total spend to total number of transactions" ratio during weekends, I used the below query and I found that "Sonepur, India" is the city with highest spend.



To find the city which took least number of days to reach its 500th transaction after the first transaction, I used below query and I found that it's "Bangalore, India"

