Big Data Programming

## CSEE5590/490

**Lab 2 Report**

Submitted By:

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Class ID: 19

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Class ID: 13

## Links:

**GitHub:**

<https://github.com/SnehaMishra28/BigData_Programming_Summer2018/wiki/Lab-%232>

**YouTube:**

<https://www.youtube.com/watch?v=X2fB-CViSQc>

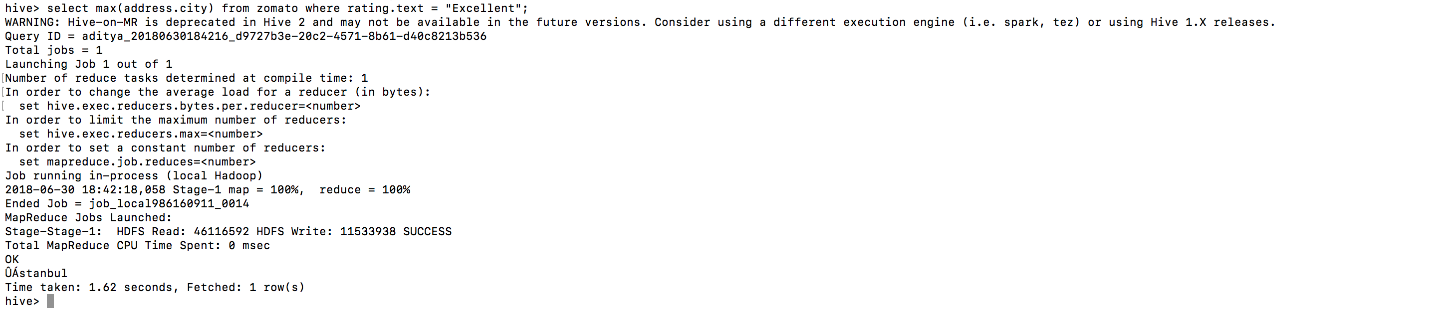
**Updated Datasets:**

1. **Hive:** <https://github.com/adityasomann/Big-Data-Programming/blob/master/Labs/Lab%202/Question%201/Source/zomato.xlsx>
2. **Solr:** <https://github.com/adityasomann/Big-Data-Programming/blob/master/Labs/Lab%202/Question%202/Source/lab2%20sol.txt>
3. **Solr Schema File:** <https://github.com/adityasomann/Big-Data-Programming/blob/master/Labs/Lab%202/Question%202/Source/schema.xml>.

**HIVE**

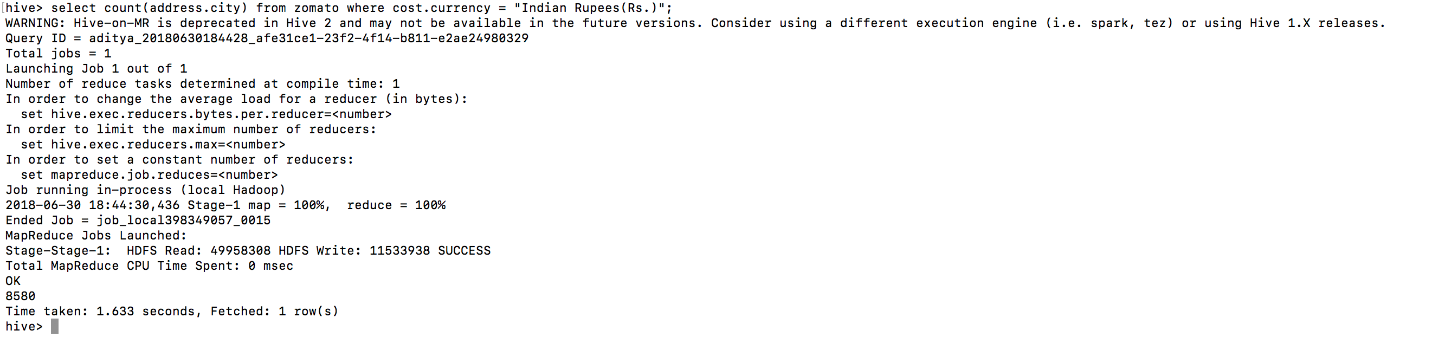
**1. Get City with max "Excellent" Rating**

Query: Select max(address.city) from tomato where rating.text = "Excellent";



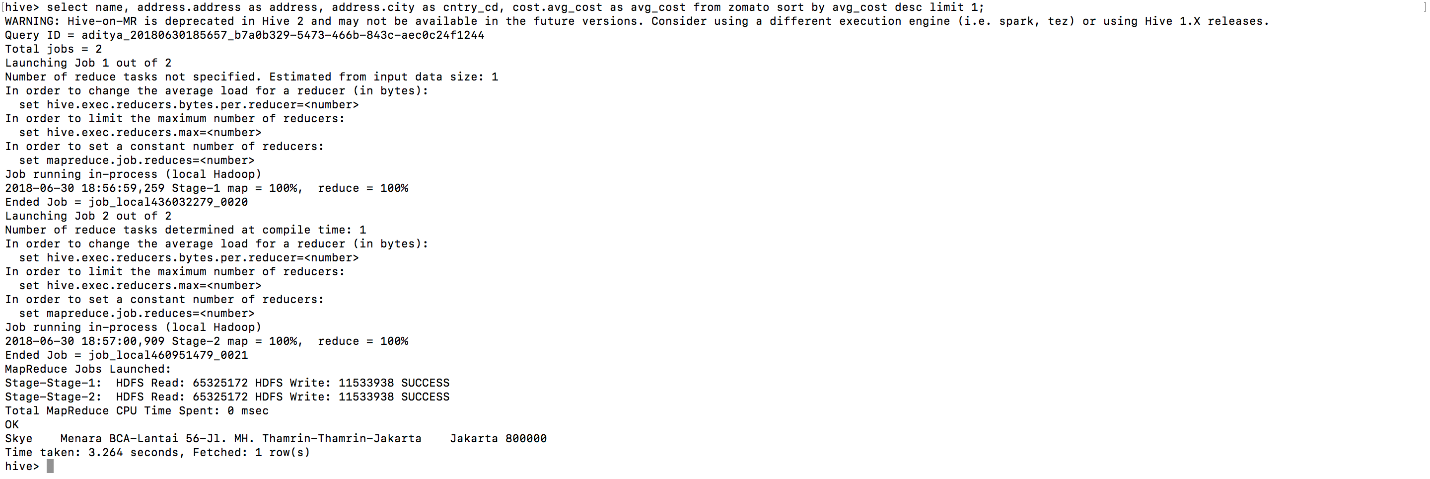
**2.** **Get count of cities that use Indian Rupees**

Query: Select count(address.city) from tomato where cost.currency = "Indian Rupees(Rs.)";



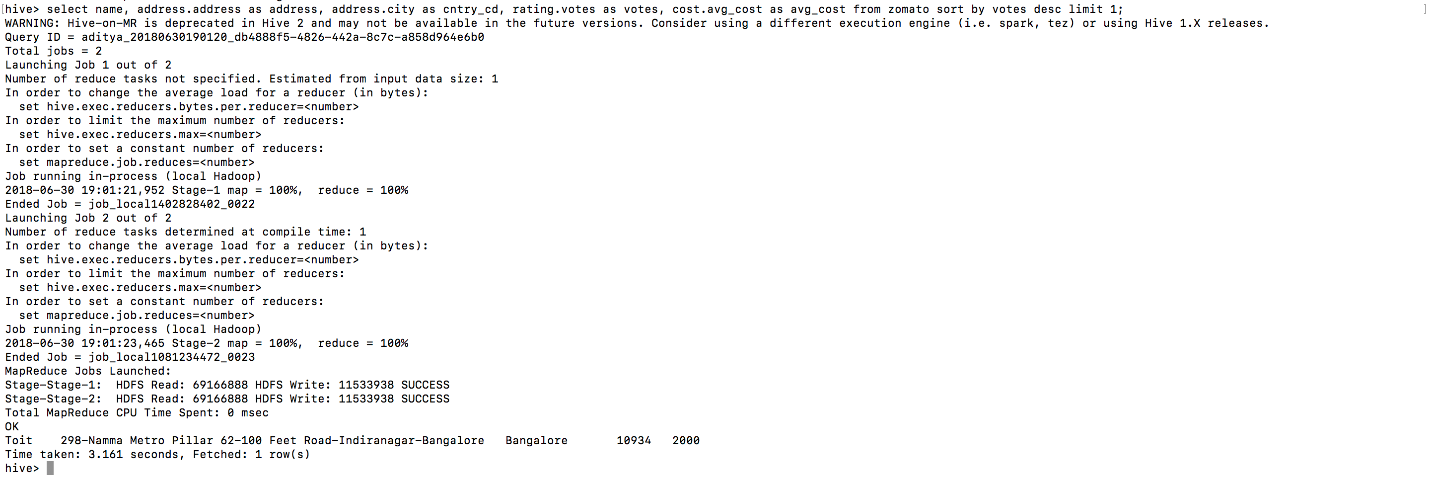
**3.** **Get the Costliest Restaurant Details**

Query: Select name, address.address, address.city, cost.avg\_cost from zomato sort by avg\_cost desc limit 1;



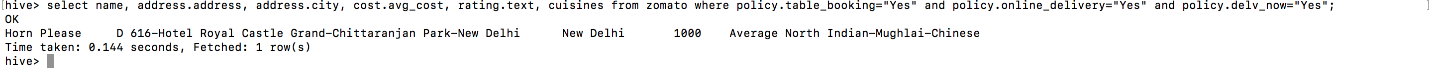
**4.** **Get the restaurant with the most number of votes**

Query: Select name, address.address, address.city, rating.votes, cost.avg\_cost from zomato sort by votes desc limit 1;



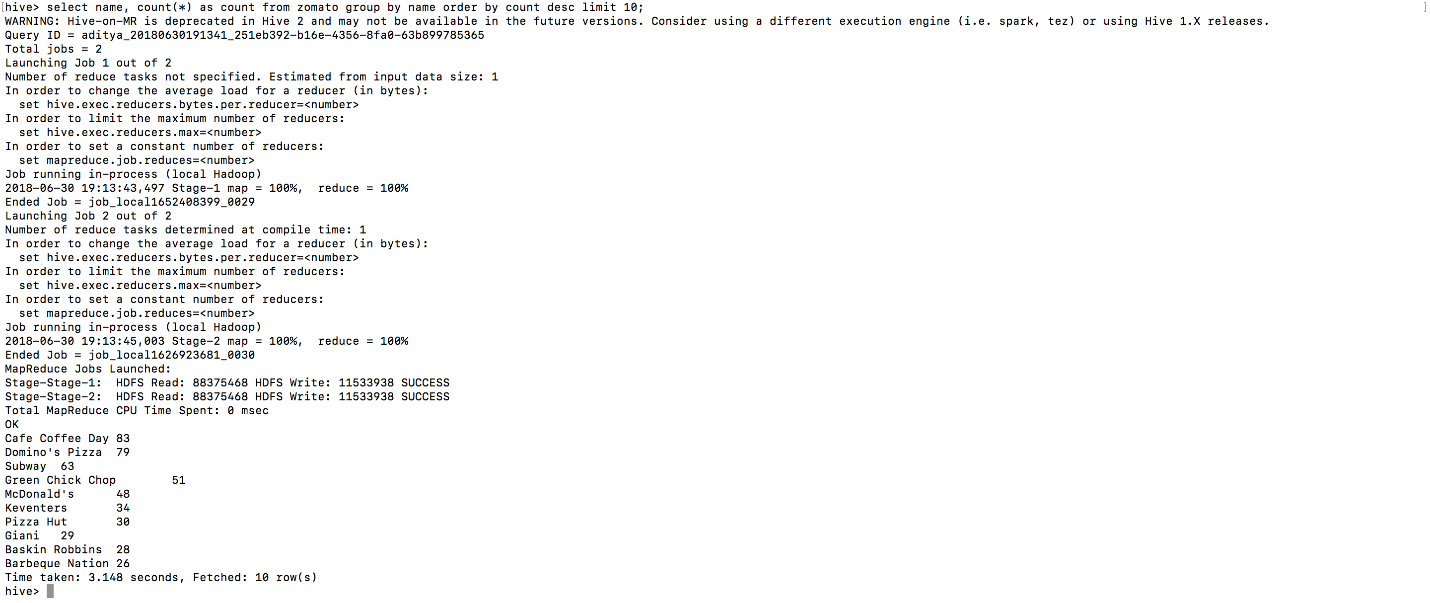
**5. Get the restaurant with the best customer satisfaction**

Query: Select name, addresss.address, address.city, cost.avg\_cost, rating.text, cuisines from zomato where policy.table\_booking = "Yes" and policy.online\_delivery="Yes" and policy.delv\_now="Yes";



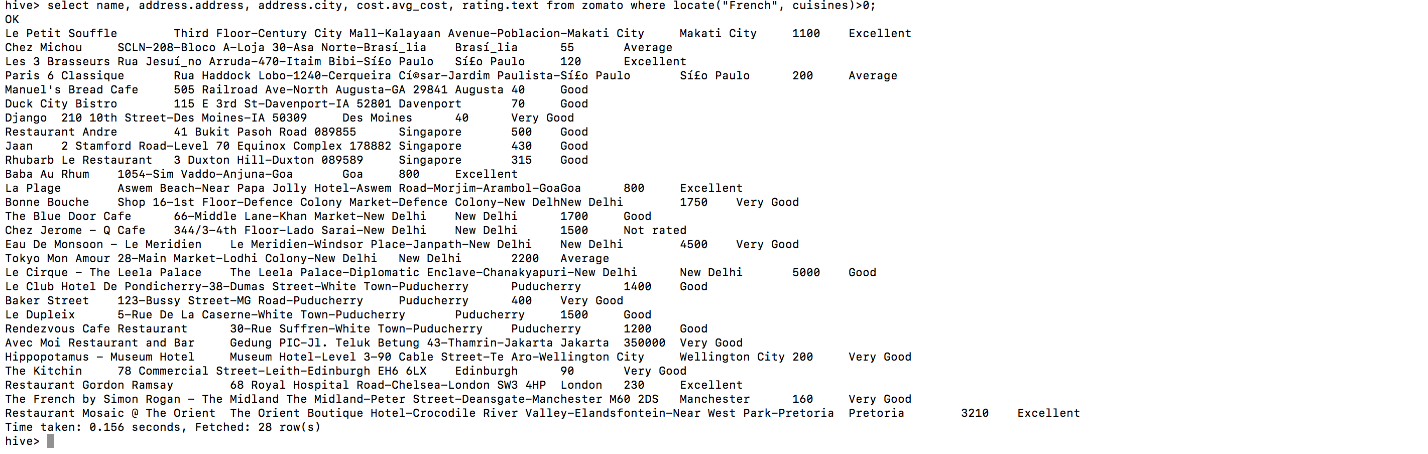
**6.** **Get the Top 10 most recurring restaurants**

Query: Select name, count(\*) as count from zomato group by name order by count desc limit 10;



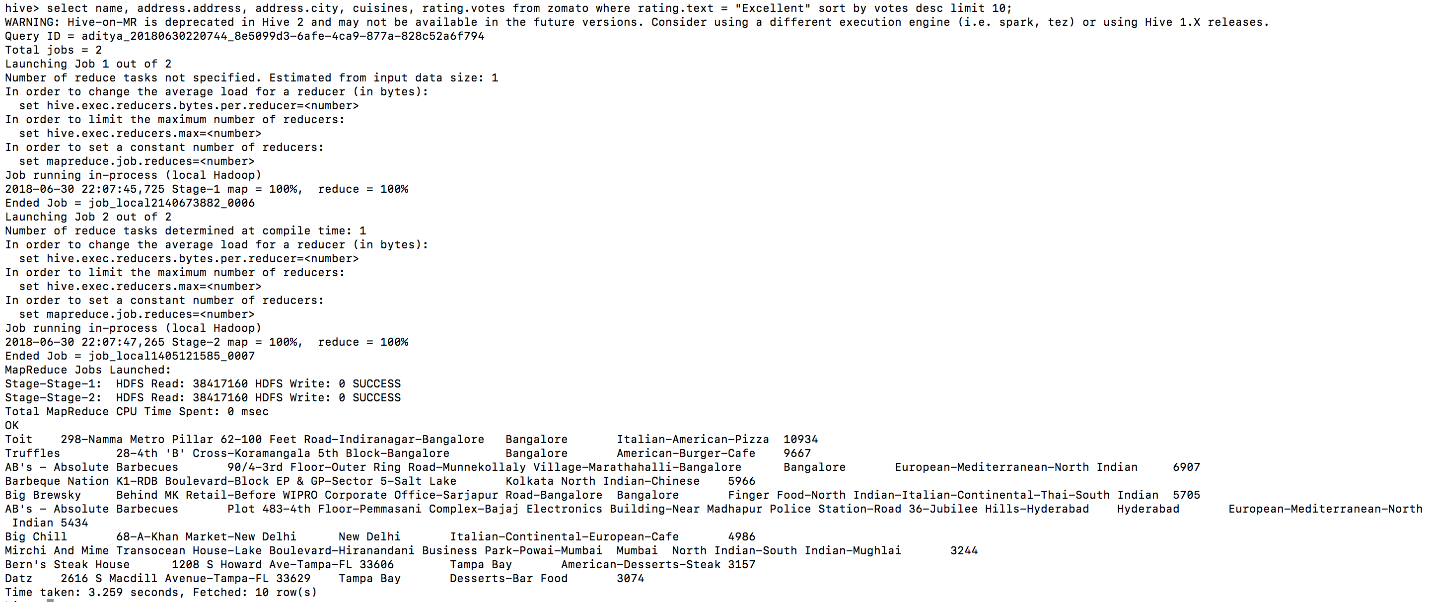
**7.** **Get all restaurants that offer French Cuisine**

Query: Select name, address.address, address.city, cost.avg\_cost, rating.text from zomato where locate("French", cuisines)>0;



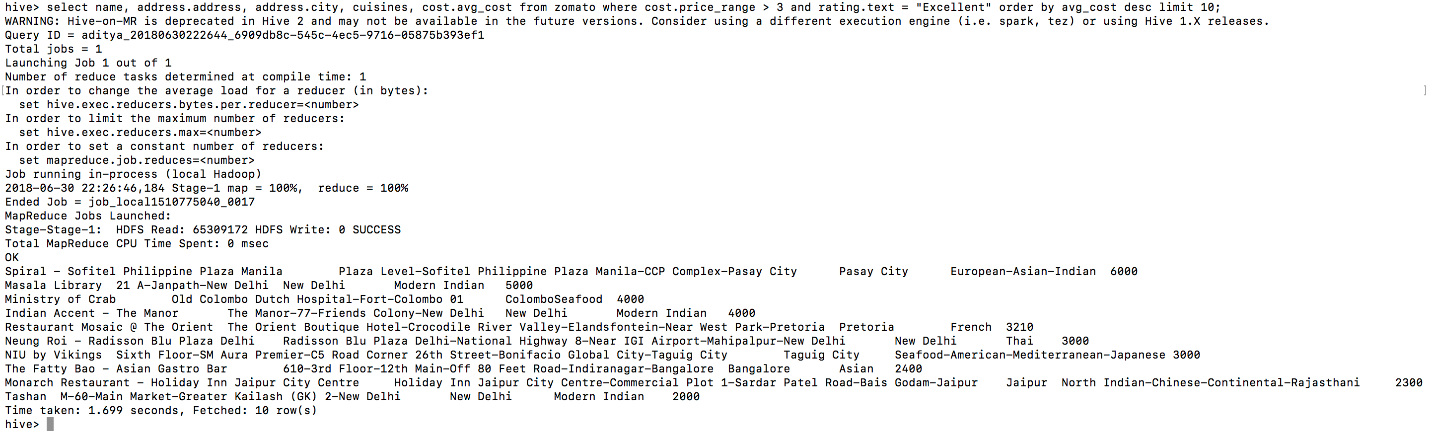
**8.** **Get Top 10 restaurants with "Excellent" rating and sort them by descending order of votes**

Query: Select name, address.address, address.city, cuisines, rating.votes from zomato where rating.text = "Excellent" sort by votes desc limit 10;



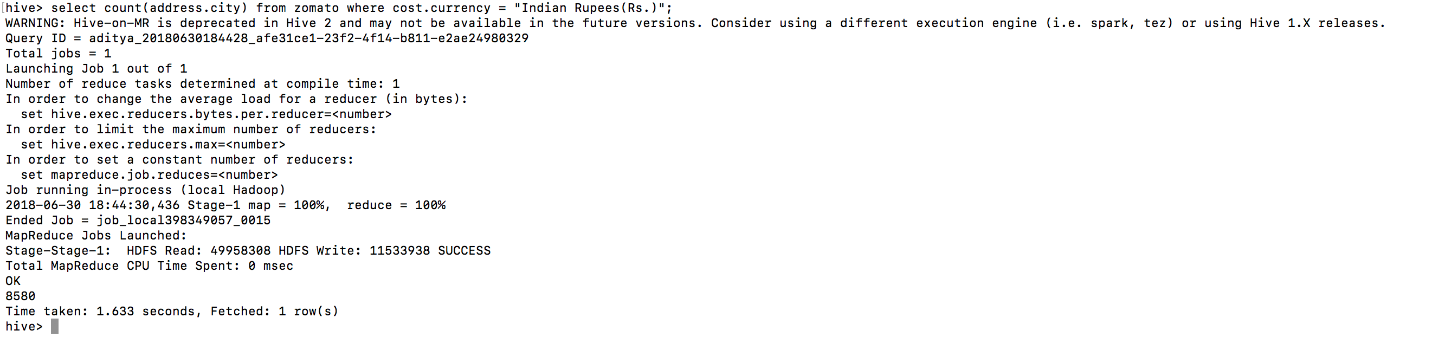
**9.** **Get Top 10 restaurants with high price range and "Excellent" rating and sort them by descending order of average cost**

Query: Select name, address.address, address.city, cuisines, cost.avg\_cost from zomato where cost.price\_range > 3 and rating.text = "Excellent" order by avg\_cost desc limit 10;



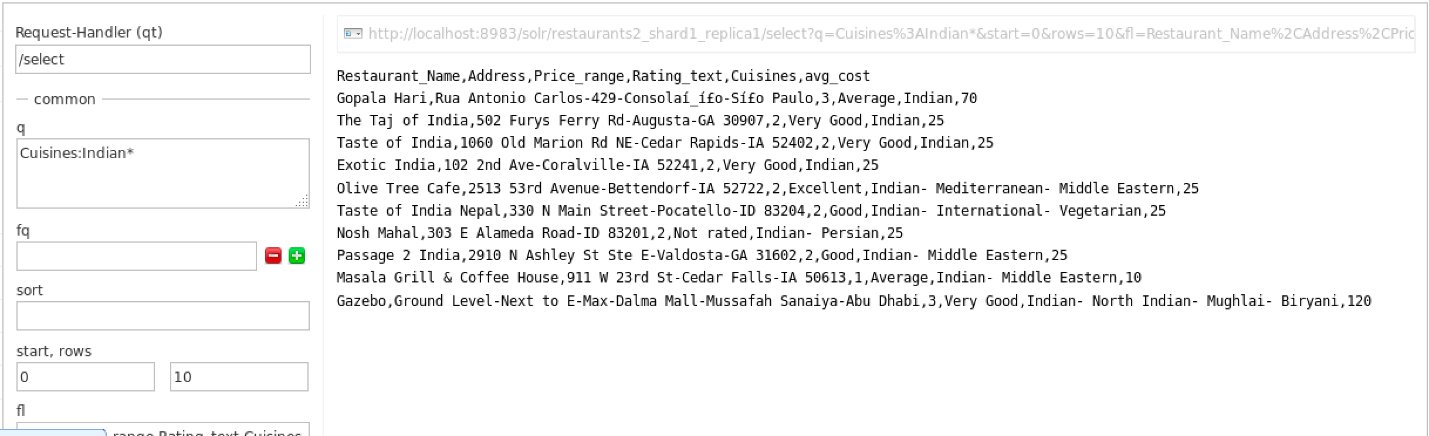
**10. Get Top 10 restaurants with high price range and "Poor" rating and sort them by descending order of average cost**

Query: Select name, address.address, address.city, cuisines, cost.avg\_cost from zomato where cost.price\_range > 3 and rating.text = "Poor" order by avg\_cost desc limit 10;



**SOLR**

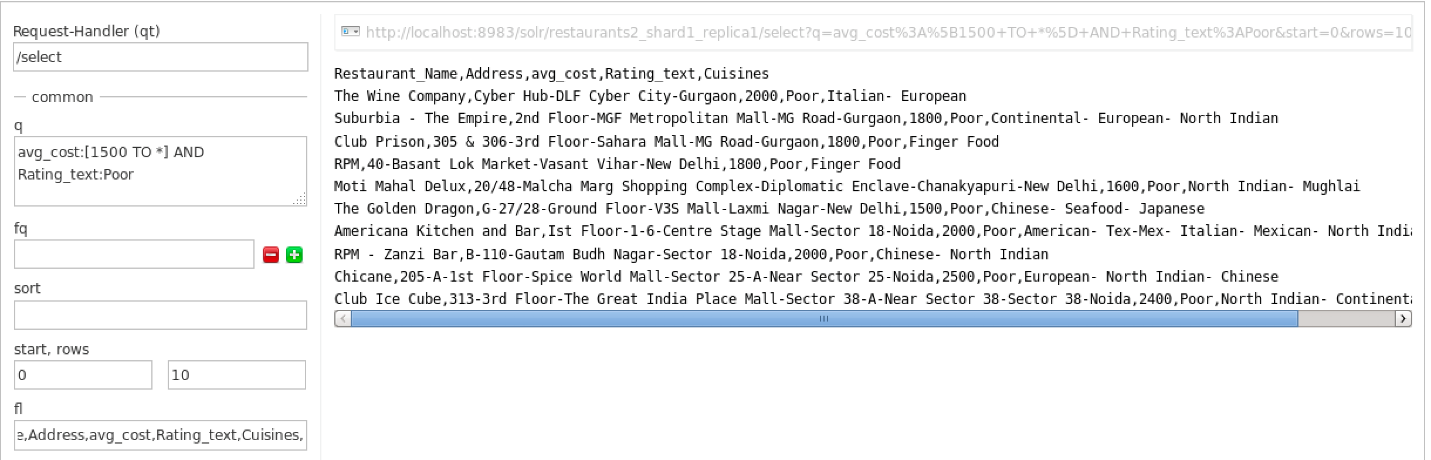
1. **Get all restaurants with Indian Cuisine**



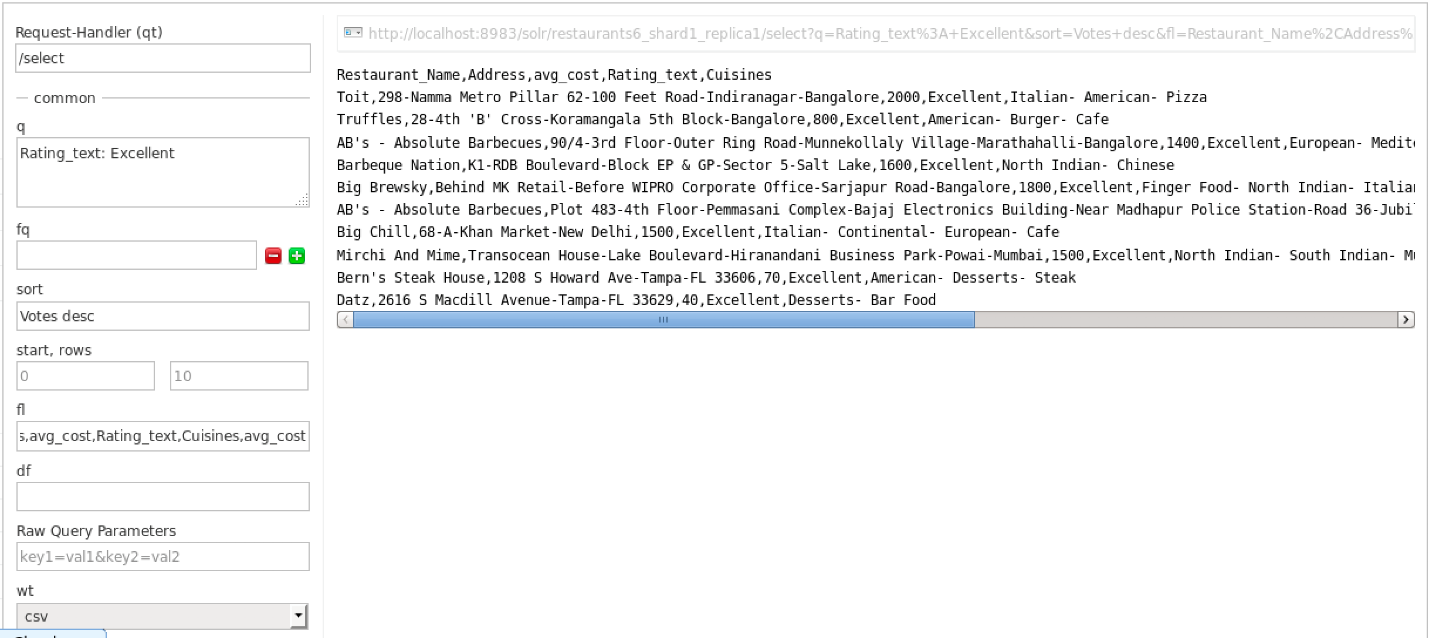
**2. Get the restaurant with the best customer satisfaction**



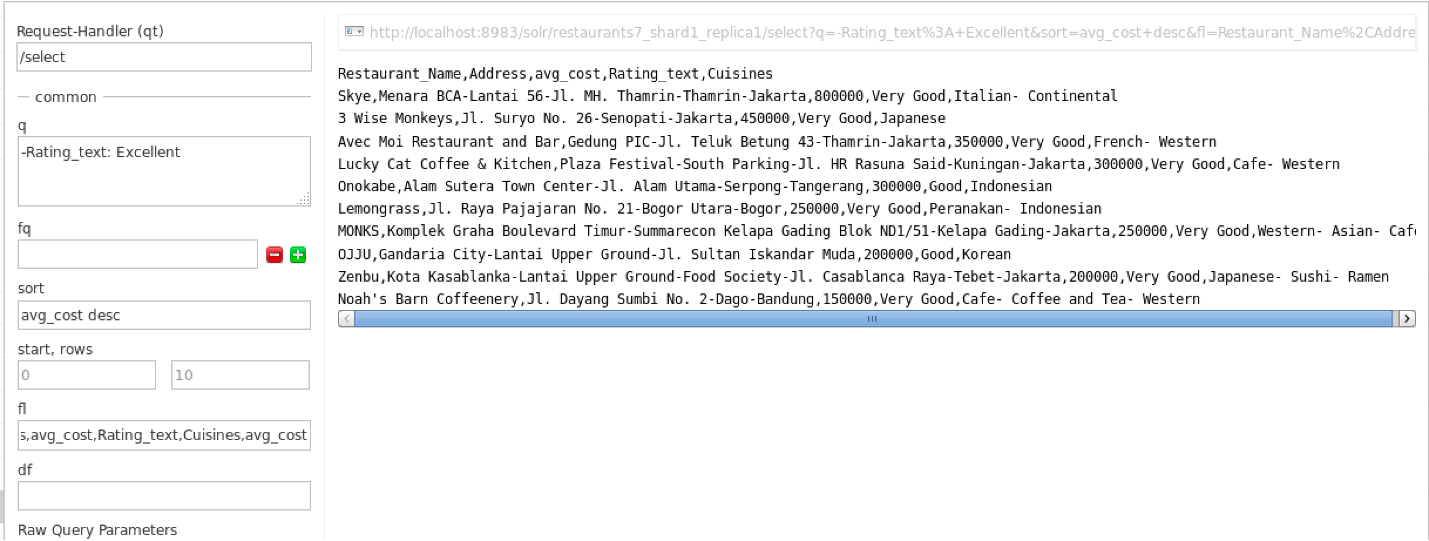
**3. Get the restaurants with "Poor" ratings but are expensive**



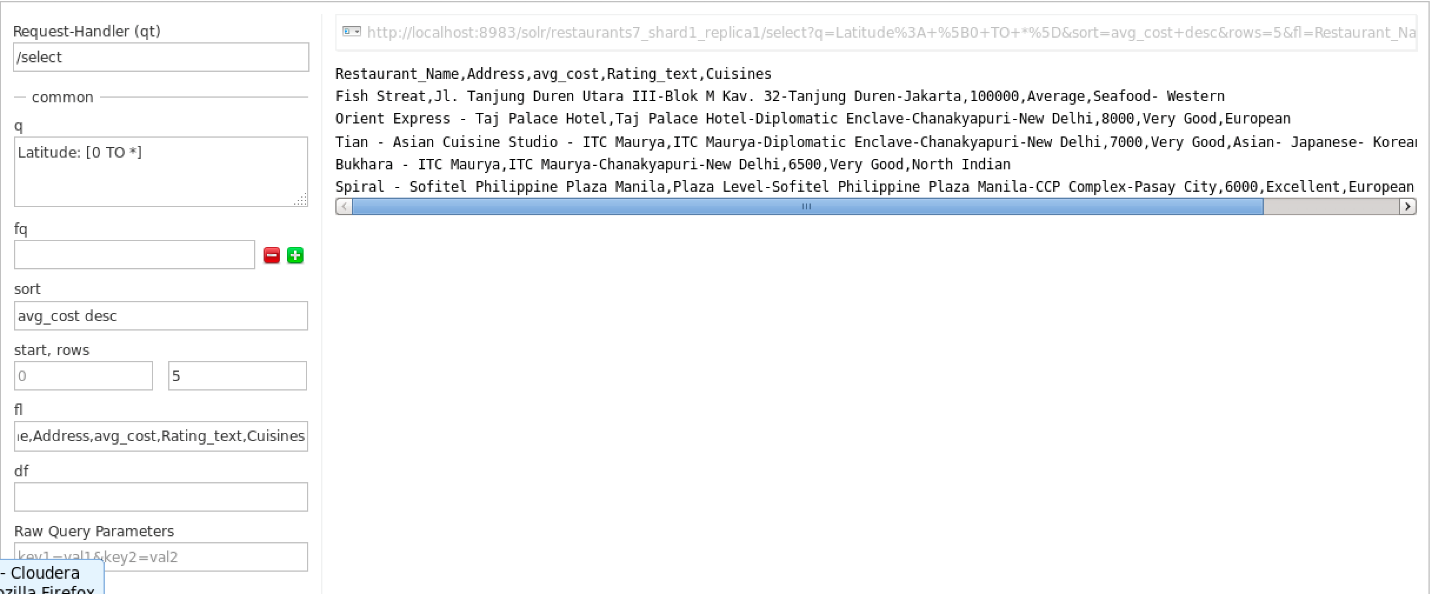
**4. Get the restaurant with "Excellent" ratings sorted in descending order of Votes**



**5. Get the Top 10 restaurants which don'92t have "Excellent" rating but are expensive**

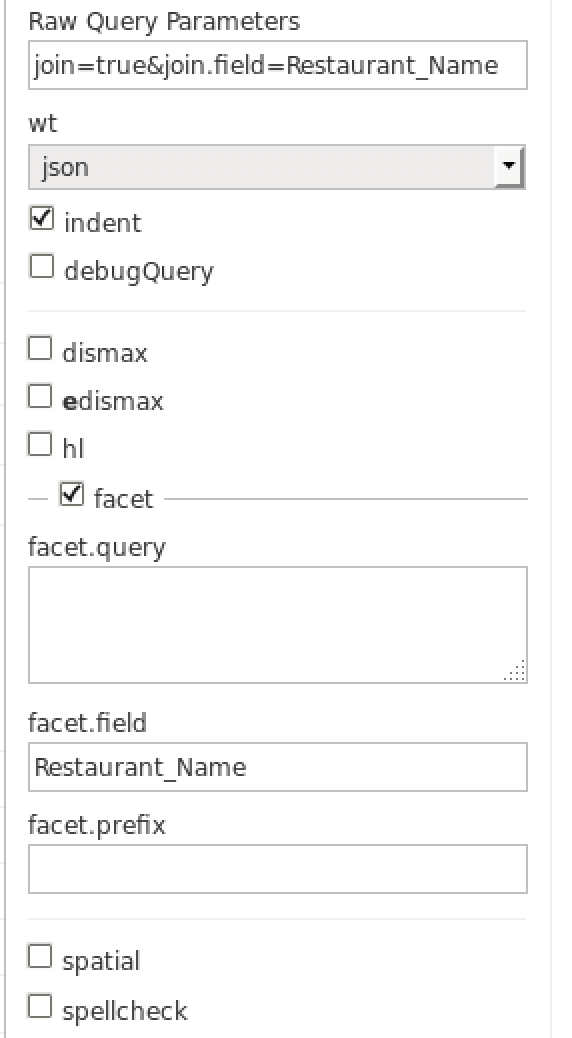


**6. Get the Top 10 costliest restaurants in the Northern Hemisphere**



**7. Get the Top 10 most popular restaurants**

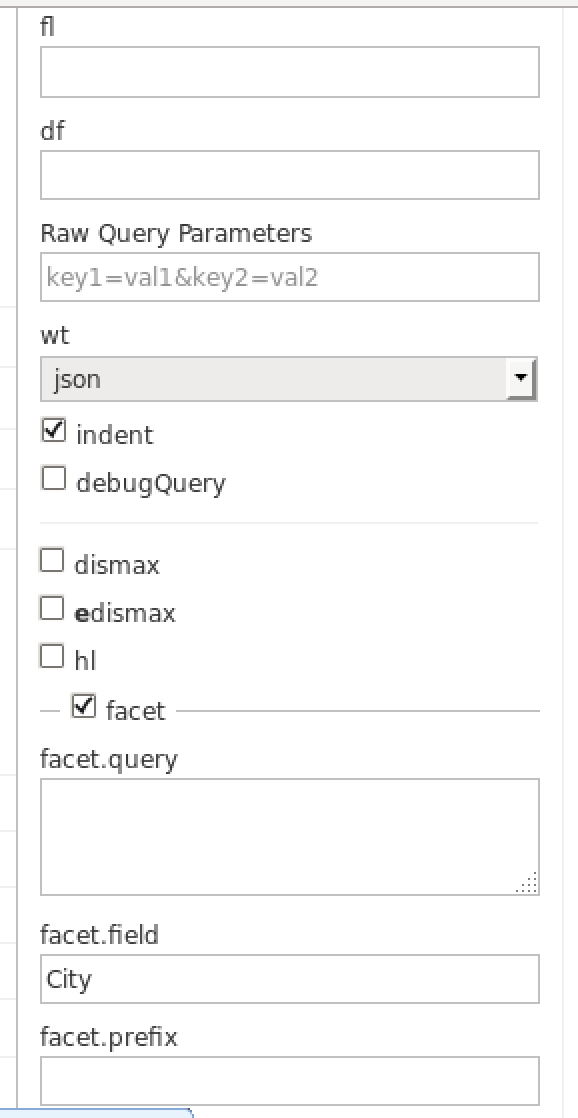
**Query:**





**8. Get Top 10 most commonly used currencies**

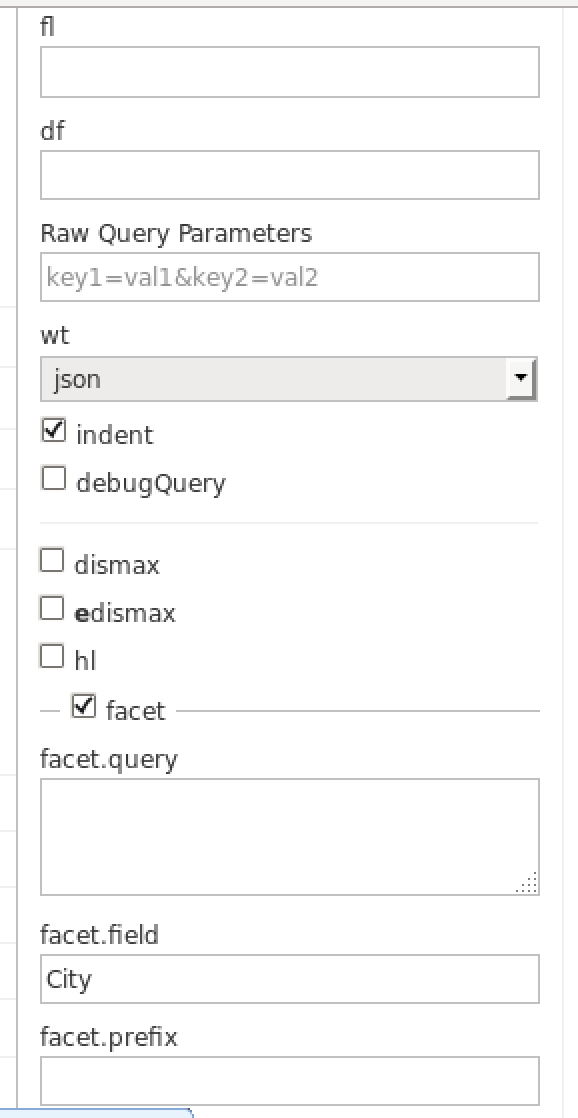
**Query:**





**9. Get the cities with the most number of restaurants**

**Query:**





**10. Restaurants with the same locality**

**Query:**

