

# Data Analytics

## Assignment 2 Report

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### Question - 1:

#### Part - 1:

According to Attribute Oriented Induction, data generalization can be performed in either of two ways : 1. Attribute removal 2. Attribute generalization.

First we will perform Attribute removal, we remove the attributes that have a large set of distinct values or its concepts can be expressed by other attributes they can be removed. According to the above rule we remove some attributes from the data such as property\_name, property\_id, Locality\_name, posted\_on, buider\_name etc (Attribute removal)

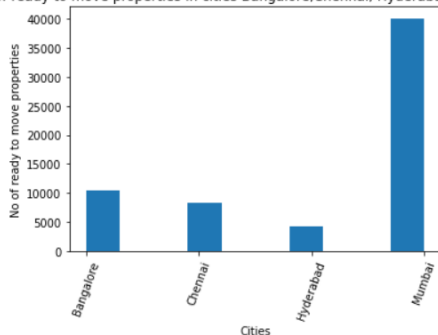
#### Part - 2:

Now we will be doing Attribute generalization as specified in the question, we will be taking active constructions and generalizing the cities with Technology city and other cities and also we categorize them to budget, luxury and Ultra Luxury based on price per unit area.

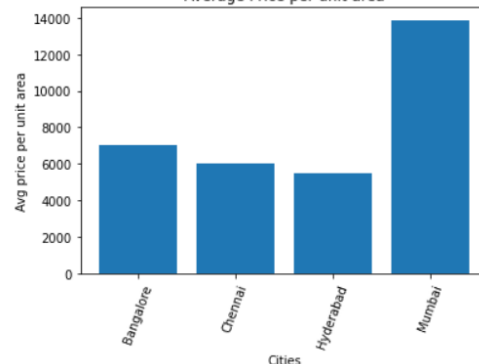
#### Part - 3:

- Here we need to summarize properties which are in tech emerging cities that are active. We showed a visualization on Number of properties that are ready to move and the trend between property price and size for each city and also the average price per unit area for each technology city.

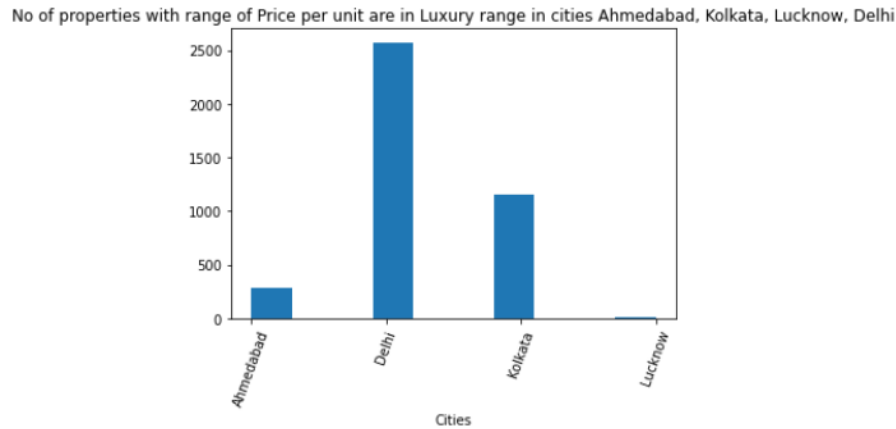
No of ready to move properties in cities Bangalore, Chennai, Hyderabad and Mumbai



Average Price per unit area



- b. Here we need to summarize properties which are in non tech emerging cities that are under construction and price per unit area which is in the Luxury range, we showed a visualization of the number of properties that satisfy the given condition.

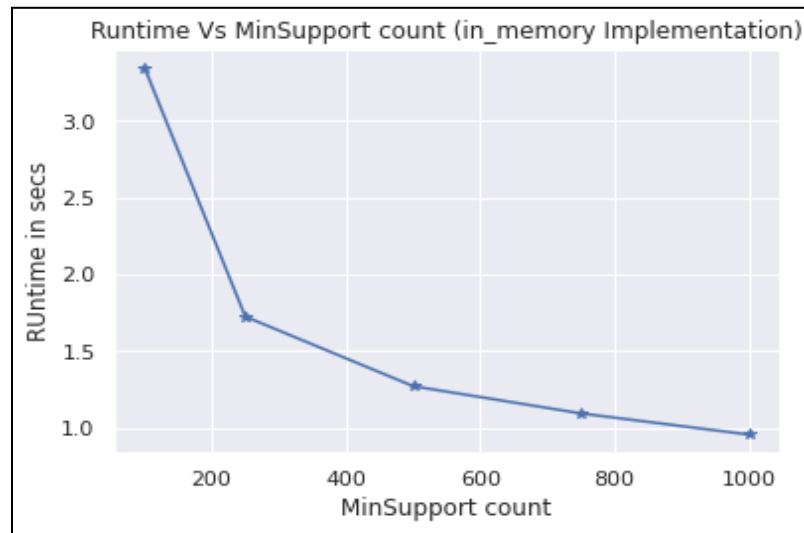


### Question - 2:

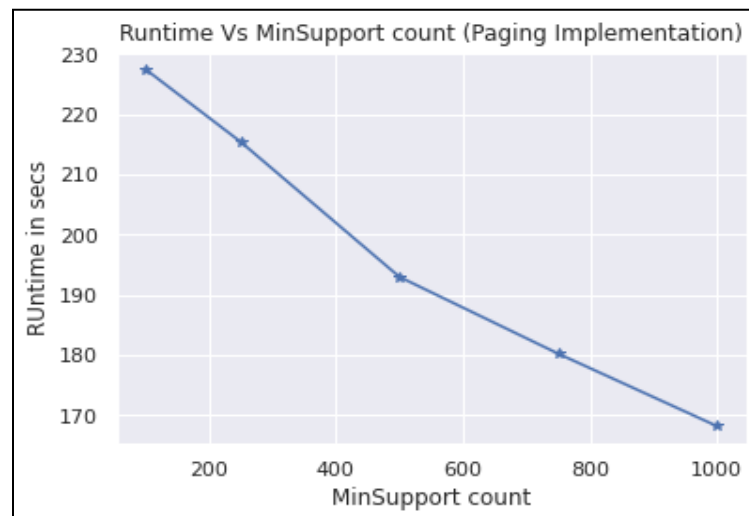
- First 15 rows of result for BUC algorithm with min support =100

[illegible]

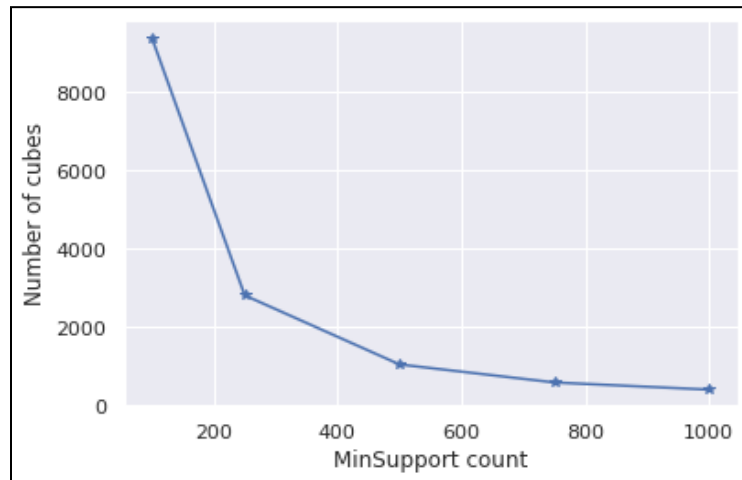
- Min Support vs Runtime without paging



- Min Support vs Runtime paging implementation



- Min Support vs Number of cubes



- Block\_size vs Runtime (with support count =2 and block size in k cells)

