

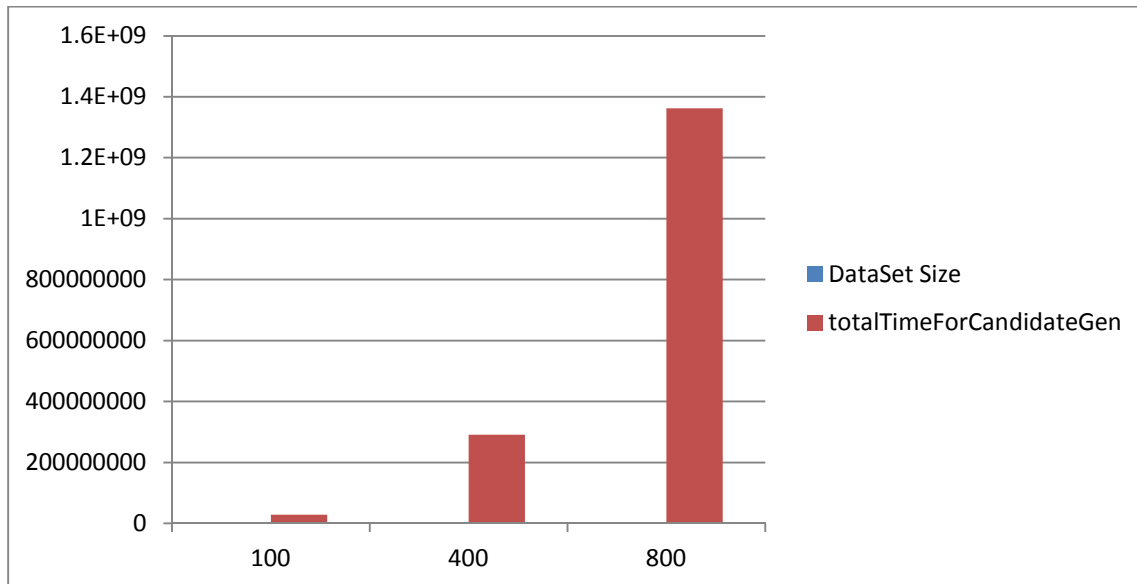
Shivani Sharma (SHARMSHI)

Assignment A3 Analysis:

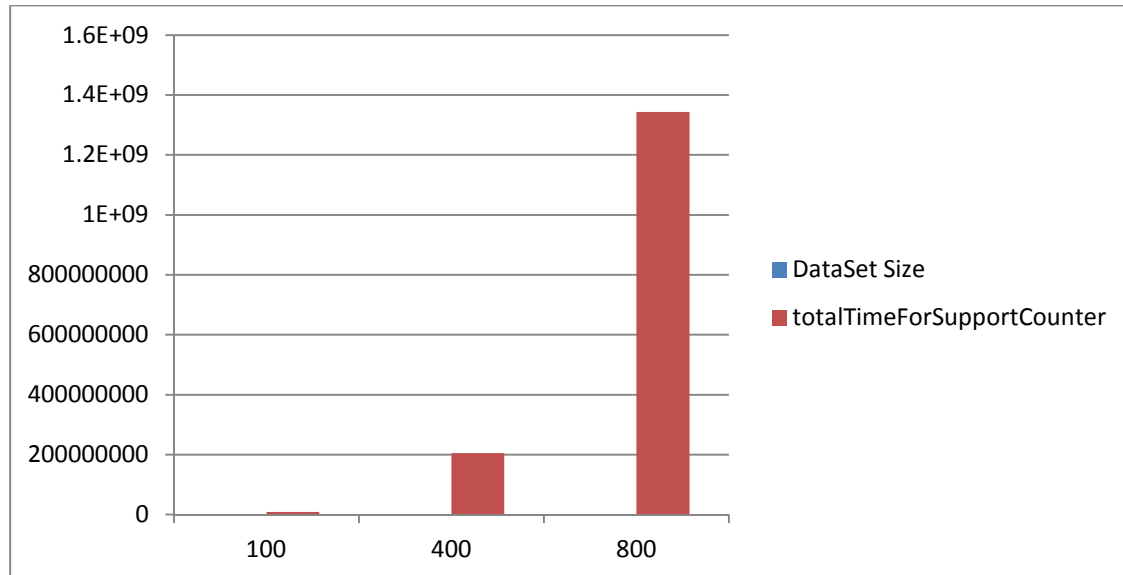
A. Test your application with **dataset1**, **dataset2** and **dataset3** (**minSupport =6**). Analyze the result according to **i** to **iii** below, and explain how the **dataset size** affects the **computation time**.

Explanation: Increasing the datasize increases the computation time drastically.

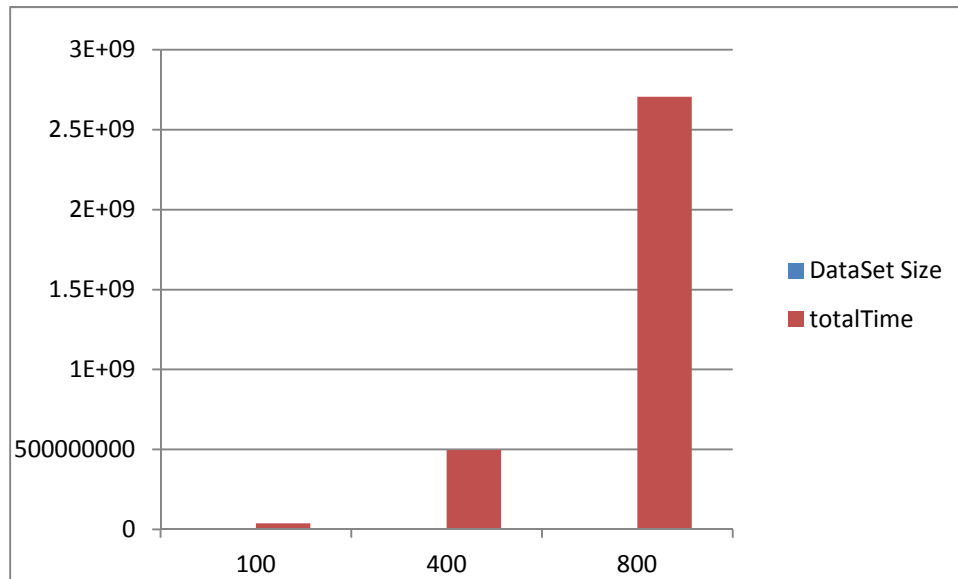
i. Draw a chart in which the Y axis shows the computation time in Nano seconds for the **candidateGen** component while the X axis shows the dataset size.



ii. Draw a chart in which the Y axis shows the computation time in Nano seconds for the **SupportCounter** component while the X axis shows the dataset size.



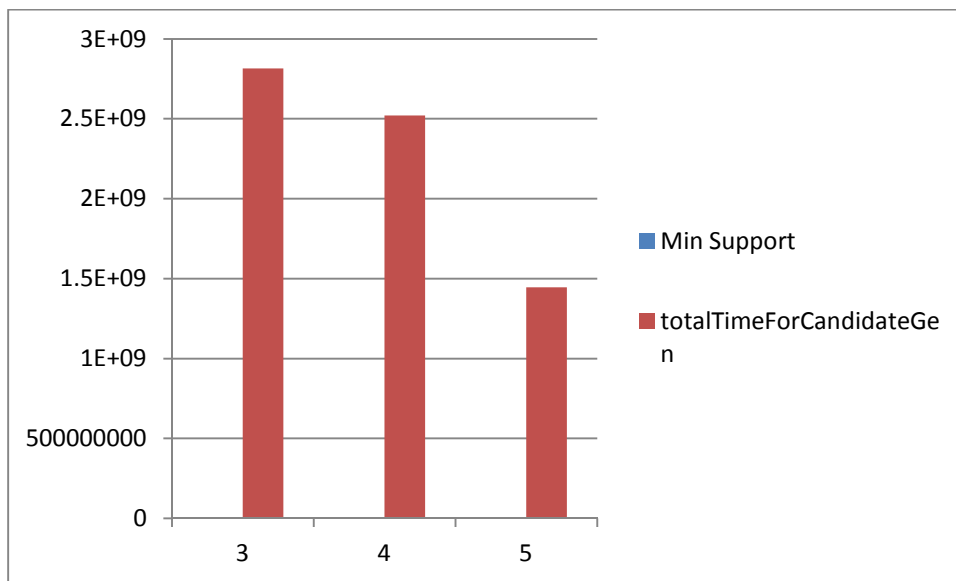
iii. Draw a chart in which the Y axis shows the **total computation time** in seconds (candidate generator + frequent pattern miner) while the X axis shows the dataset size.



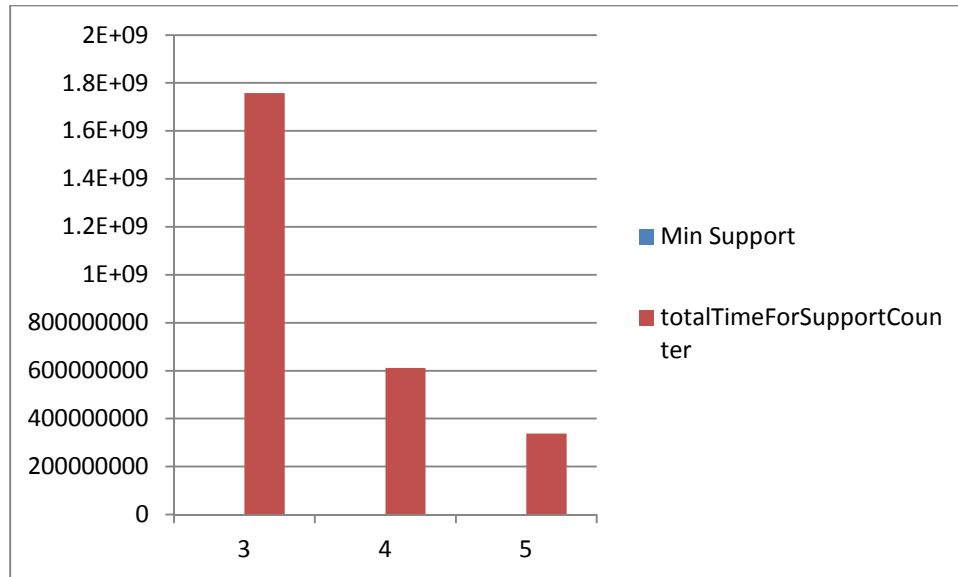
B. Test your application with **minSupport = 3, 4, and 5** (using **dataset2**). Analyze the result according to **i** to **iii** below, explain how the **minSupport** value affects the **computation time**.

Explanation: Increasing the Minimum Support decreases the computation time marginally.

i. Draw a chart in which the Y axis show the computation time in Nano seconds for the **candidateGen** component while the X axis shows the minSupport value.



ii. Draw a chart in which the Y axis show the computation time in seconds for the **SupportCounter** component while the X axis shows the minSupport value.



iii. Draw a chart in which the Y axis show the total computation time in Nano seconds while the X axis shows the minSupport value.

