

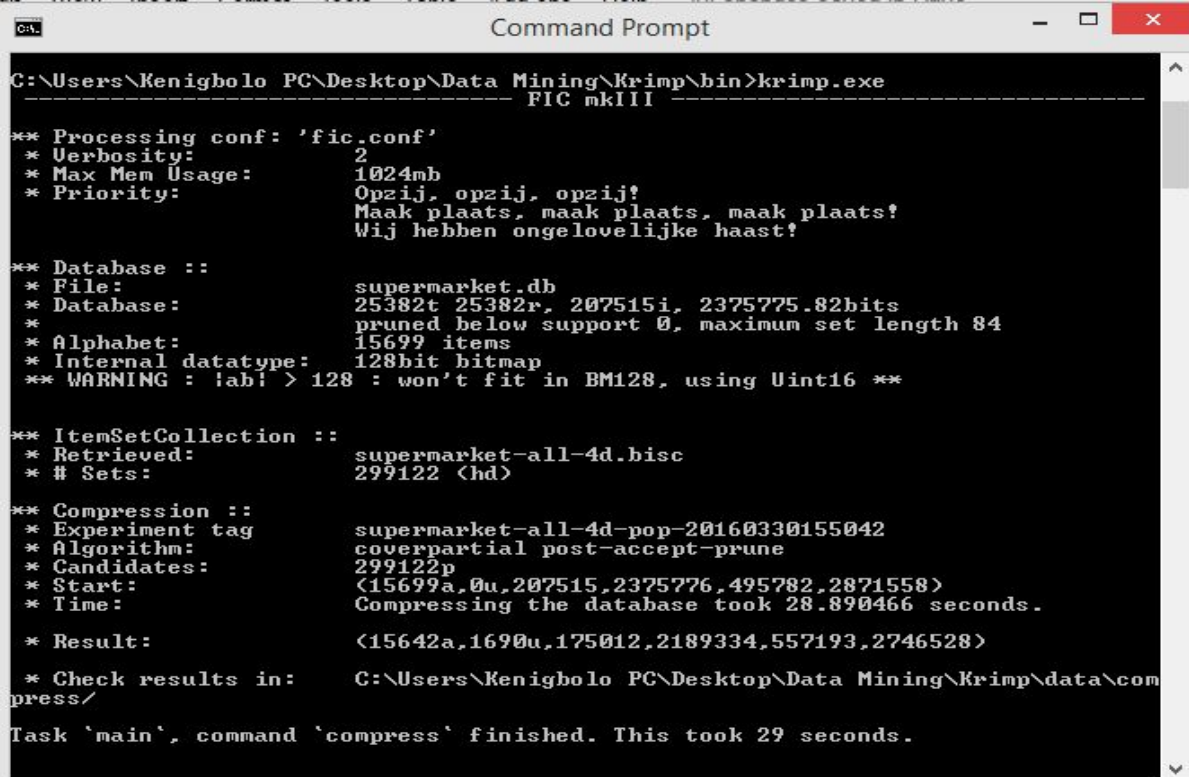
KENIGBOLO MEYA STEPHEN  
DATA MINING HOMEWORK 6 BONUS TASK

6. (Bonus 2p) Run Krimp on same data, provide commands and describe your findings and compare to FIM+Association rules. ([Krimp documentation](#))

After trying severally and not getting Krimp to work, I finally got it working with your help. The parameters I used are basically the same with the one for my earlier mining in R with Apriori. Results to report are as follows;

Run time

Run time was 28.890466 seconds approximately 29 seconds as can be seen from the image below for the first run with minsup as 4.



```
C:\Users\Kenigbolo PC\Desktop\Data Mining\Krimp\bin>krimp.exe
FIC mkIII -----
** Processing conf: 'fic.conf'
* Verbosity: 2
* Max Mem Usage: 1024mb
* Priority: Opzij, opzij, opzij!
Maak plaats, maak plaats, maak plaats!
Wij hebben ongelovelijke haast!

** Database ::
* File: supermarket.db
* Database: 25382t 25382r, 207515i, 2375775.82bits
* pruned below support 0, maximum set length 84
* Alphabet: 15699 items
* Internal datatype: 128bit bitmap
** WARNING : !abi! > 128 : won't fit in BM128, using Uint16 **

** ItemSetCollection ::
* Retrieved: supermarket-all-4d.bisc
* # Sets: 299122 <hd>

** Compression ::
* Experiment tag: supermarket-all-4d-pop-20160330155042
* Algorithm: coverpartial post-accept-prune
* Candidates: 299122p
* Start: <15699a,0u,207515,2375776,495782,2871558>
* Time: Compressing the database took 28.890466 seconds.

* Result: <15642a,1690u,175012,2189334,557193,2746528>

* Check results in: C:\Users\Kenigbolo PC\Desktop\Data Mining\Krimp\data\com
press/

Task 'main', command 'compress' finished. This took 29 seconds.
```

Minimum Support Value

I used an Initial minsup value of 4 and this resulted in some results I couldn't make any sense of as the csv file was made up of so many lines I played around with the value and increased the minsup to 40 and then had about 58 lines in the csv file. This was a bit similar to my results in R where with a support of 0.004 I had about 48 rules generated.

Frequent Itemset

At the moment I cannot seem to figure out where exactly these are, I have played around with the data and Krimp folder but do not really know where they are. I feel like I'm missing something and I'd be glad if I could be pointed in the right direction. Attached to this document I'd submit a zip folder where I have run Krimp with the different configurations et al.