**Part A)**

Number of transactions: 7,513

Total number of elements: 17,697  
  
**Part B)**   
 B.a)

Size 1: 430 frequent item sets  
 Size 2: 13,877 frequent item sets

Size 3: 71,278 frequent item sets

B.b)

Size 1: 83 Maximal frequent item sets

Size2: 5,489 Maximal Frequent item sets

**Part C)**

C.a) Total Rules: 522

C.b) In the python code.

**Part D)**

D.a) Most Interesting Rule: Lord\_of\_the\_Rings\_\_The\_Return\_of\_the\_King\_\_Extended\_Edition ==> Lord\_of\_the\_Rings\_\_The\_Two\_Towers :

Confidence: 0.9549964564138907

D.b) Least Interesting Rule:

The\_Family\_Man ==> Pirates\_of\_the\_Caribbean\_\_The\_Curse\_of\_the\_Black\_Pearl : Confidence: 0.8500643500643501