**Chapter Seven**

**Conclusions and Recommendations**

**7.1 : Conclusions**

We reviewed data mining background and discovered models and methods of analysis methodologies that helping in decisions selection, beside expanded explanation about CRISP-DM model.

We recognize the term of association rules and discover two phases required to generate strong association rules: first, the generation of frequent itemsets and second, the generation of strong rules. For first phase, we see that Apriori is the most algorithm used to generate frequent itemsets among group of other algorithms have been appears by time.

By taking Apriori as a research implementation base, we reach all our research objectives, but, there is a problem face us when transfer transactions records from database to the implementation program cross a middle dataset file which able to read and execute by the program. And that because the vary of database management systems and the methods to deal with it. Currently the data set file could generated manually, but just trying to make this file generated automatically will lead to expand this research out of it is domain. Until that done, we will not hope to see this implementation have been spreaded to be used in a global scale such Weka and RapidMiner applications.

**7.2 : Recommendations**

Develop a methodology to transfer database records into a dataset file (*.ds*) and a header file (*.dh*) , so the end-user will have no troubles or difficult rather than transfer it manually.

For implementation, develop a deleting method for the Pineapple class rather than markup delete technique.

Develop implementation to make it works in better way than standard procedures of Apriori algorithm, at least like Apriori-TID or Apriori-Hybrid.