CHAPTER 7

CONCLUSION

7.1 CONCLUSION

In this research work, a temporal SQL3 mining (TSQL3MINE) approach was proposed to provide better temporal extension of standard SQL3. Object oriented operations were performed in the proposed method. The objects definition and a dictionary creation provided a new semantic keywords. The generated new keywords define different temporal operator versions to SQL3 and performed various query operations. The object oriented programming optimized the query manipulations in the temporal database. The generated objects performed operations of table creation, extraction, retrieval in the temporal database.

The new string formulation and the ASCII based keywords formation in TSQL3MINE performed the query manipulations. The optimized query processing was achieved by the proposed TSQL3MINE approach. Semantic concepts in query processing were used to enhance the relevancy calculation and also to evaluate the similarity measures. Accurate results were obtained using the proposed TSQL3MINE approach. This research work provides low execution time, high resource efficiency, high processing speed, low latency, high accuracy, low time complexity, high time efficiency, high searching efficiency and low scalability when compared with the existing techniques.

The performance of the TSQL3MINE was compared with the existing SQL and ORM techniques. The experimental results showed that the proposed TSQL3MINE method achieved an improved robust against structural noise,
robust against temporal noise, time complexity, accuracy, time efficiency, resource efficiency, processing speed, latency, execution time, searching efficiency and scalability when compared with the other existing methods such as SQL and ORM techniques and also showed that the proposed TSQL3MINE enhanced the temporal query processing.

7.2 FUTURE WORK

For further enhancement, the temporal relational algebra can be extended since it encloses entire relational algebra operators and their functionalities. Moreover, the TSQL language can be enhanced to incorporate and enhance the SQL. In addition, a similar system can be developed, which uses the object-oriented databases to store the temporal data.