

## **Abstract**

DBMS performance is one of many things that have to be considered in choosing a DBMS. In this information era, the role of DBMS as a software which stores and manages the data will be more and will be more related in human life. In the next era where information exchange is rapid, high performance DBMS becomes important to guarantee the correctness and the speed of information exchange.

To fulfill the performance challenge, a new paradigm which is called In-Memory Database arises. With this new paradigm, hopefully, the problem of DBMS performance will be solved. With its characteristic of storing data in computer memory (RAM) and using the computer memory as the main data store, theoretically, In-Memory Database performance is better than regular DBMS.

Although it has high performance, In-Memory Database has constraints that can make In-Memory database performance decrease and the people who use this In-Memory database become unsatisfied.

**Keywords:** In-Memory Database, performance, DBMS, database