ABSTRACT

In transaction processing system usually allow multiple transactions to run concurrently. This allowance of multiple transactions concurrently could cause certain things that affect the database consistency.

Concurrent transaction processing can be serially which is performed by completing one transaction first then followed by other transactions. But this process can be done by allowing interleave process to improve CPU utilization and reducing waiting time between transactions.

Database system must control the interaction between transactions which are concurrently processed to ensure database consistency. For T1 and T2 transacations that being processed concurrently, we cannot guarantee that T1 transaction process is followed by T2 transaction, so it is necessary to create a schedule which will control the order of set of action that will be processed.

This final project simulates database transaction processing which referred to scheduling of transaction. To support this simulation, test cases are needed, which in this case referred to banking account system.

Keyword : transaction, concurrency, schedule, database, banking