Chapter 7.4 Locking System with Multi - Locking Mode

*Introduction:*

Main problem in Simple Lock System introduced before is that even Transaction T wants to read Database Element X but not read it, then it should request Lock on parameter X.

We can not escape getting the Lock. If not getting lock, then Non-Serializable Behavior would happen when another Transaction would write X when Transaction T is active.

*Outline:*

* *Two different complex Lock which is used to read (Shared Lock and Read Lock) and another is used to write (Exclusive Lock and Write Lock).*
* *Shared Lock can be upgrade into the Exclusive Lock.*
* *Increment Lock and can be used to write the Database Element incrementally. Increment Lock can be swapped.*
* *Compatibility Matrix is used to present what kind of Lock can be assigned on Database Element when there already has other locks already assigned on current Database Element.*

Chapter 7.4.1 Sharing Lock and Exclusive Lock

Chapter 7.4.2 Compatibility Matrix

Chapter 7.4.3 Upgrade Lock

Chapter 7.4.4 Update Lock

Chapter 7.4.5 Increment Lock