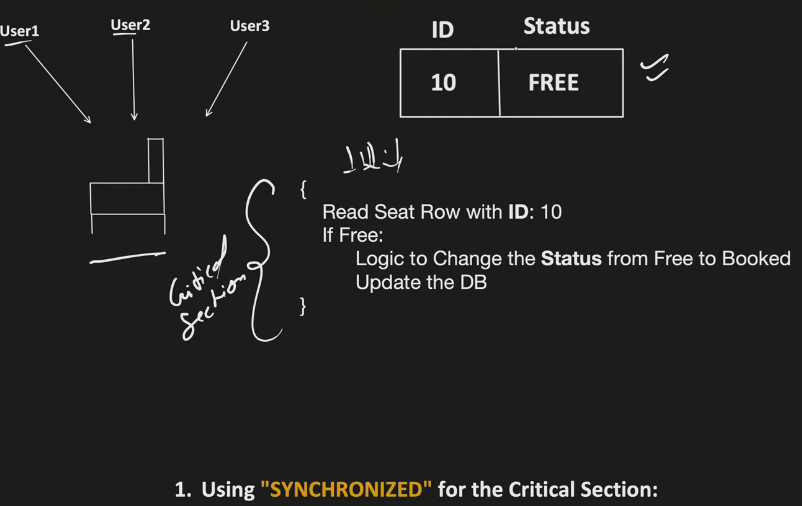
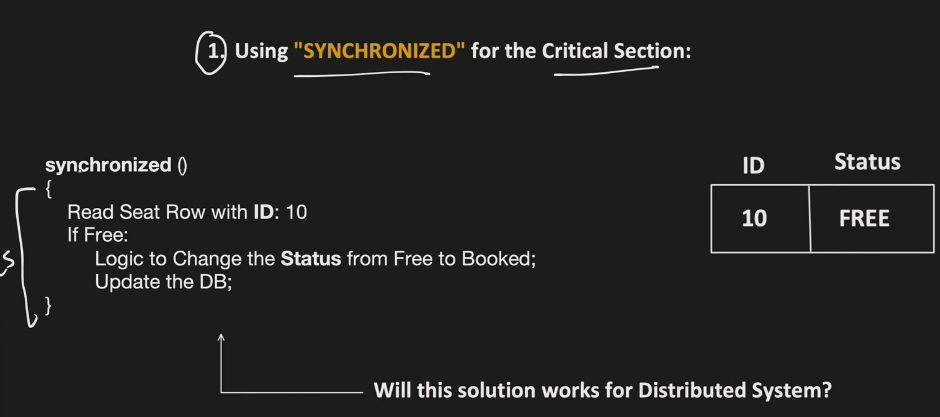
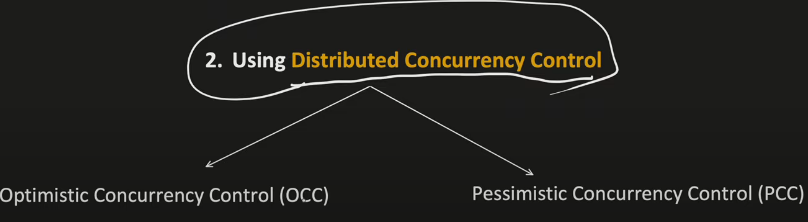
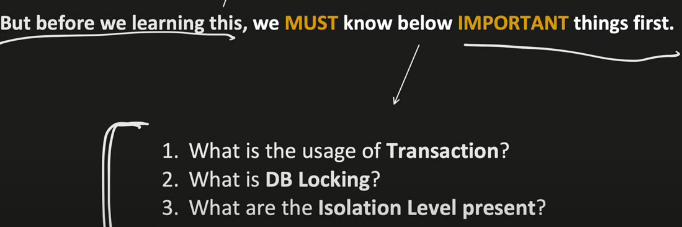
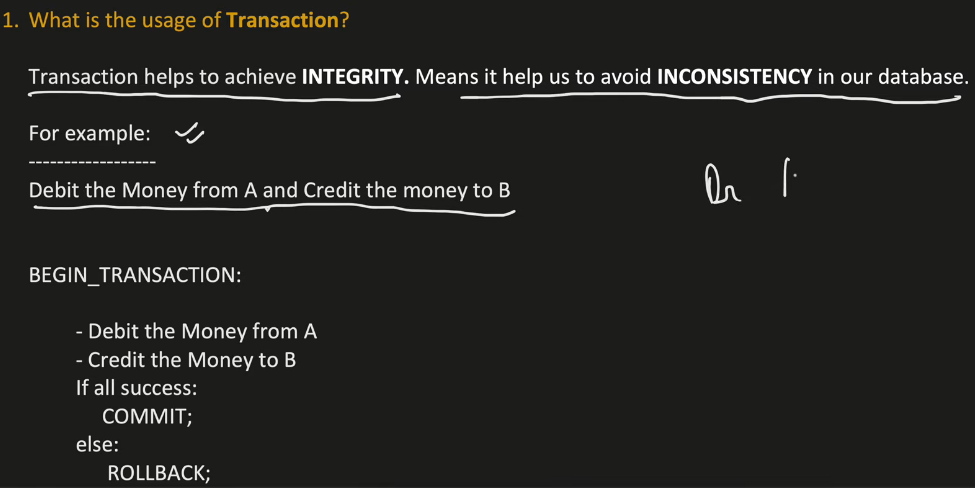
# System Design: Concurrency Control in Distributed System | Optimistic & Pessimistic Concurrency Lock

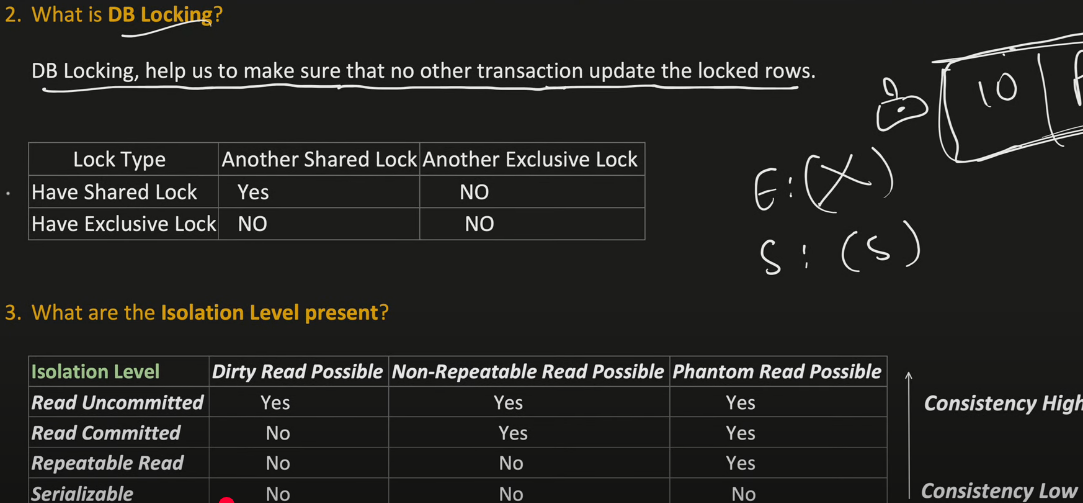
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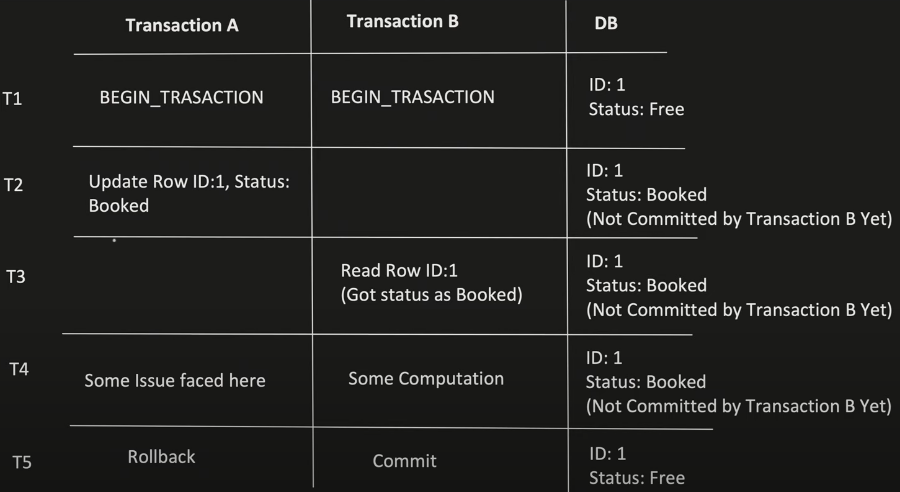
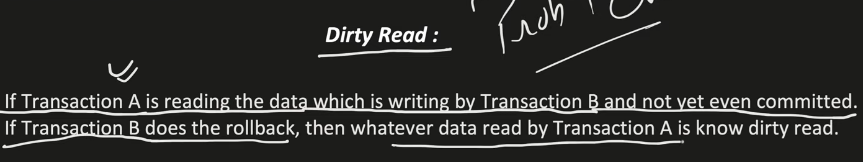
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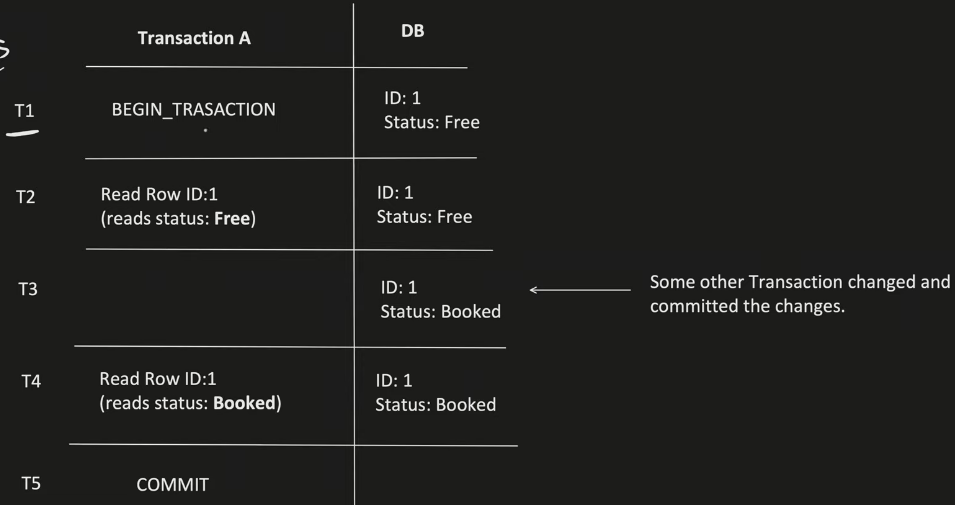
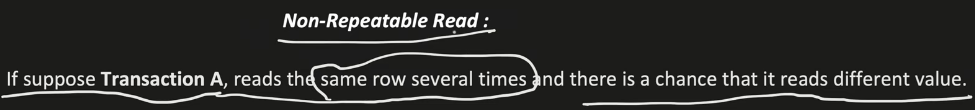
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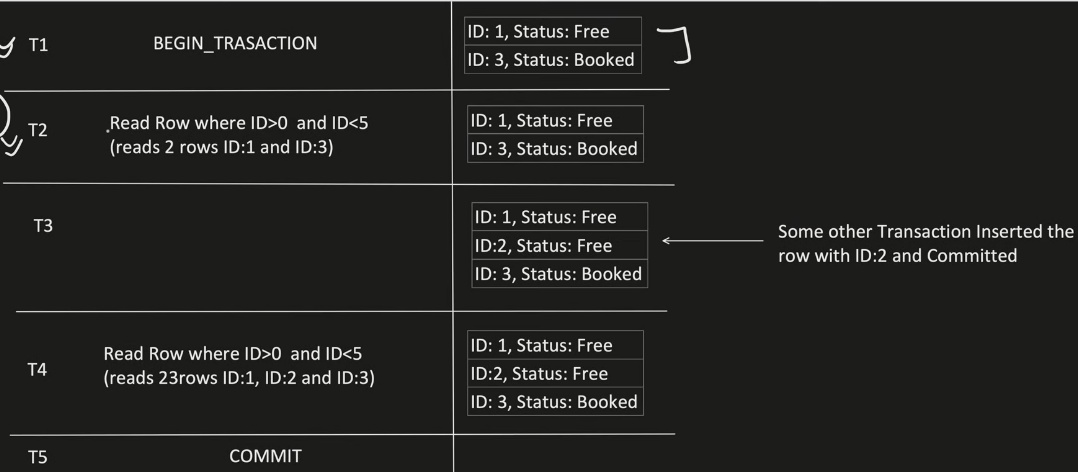
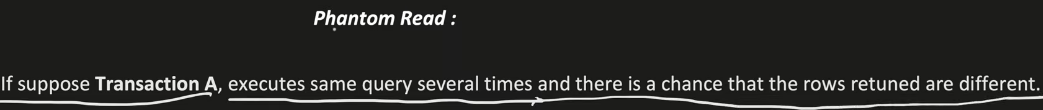
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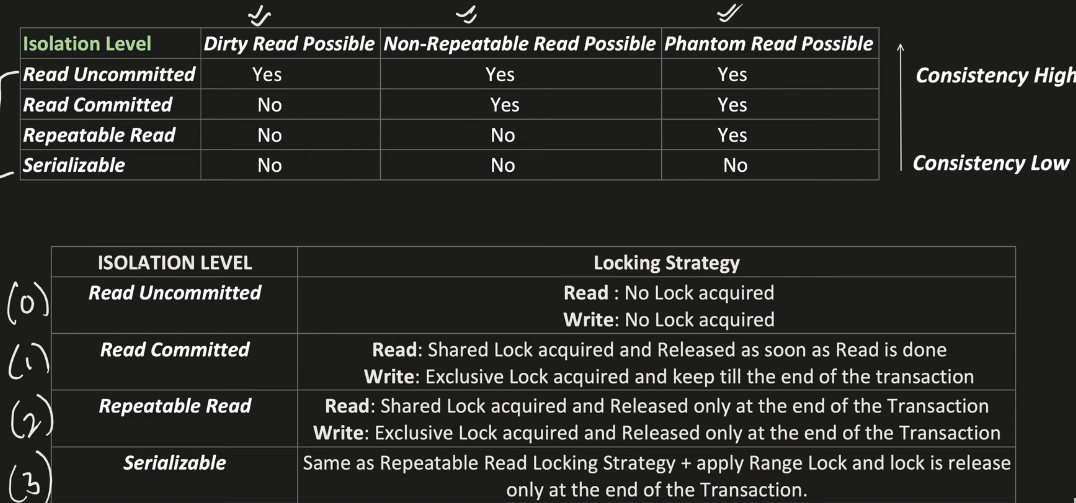
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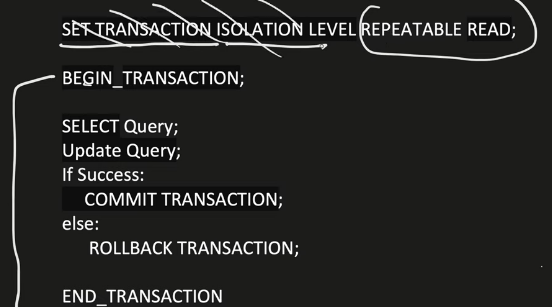
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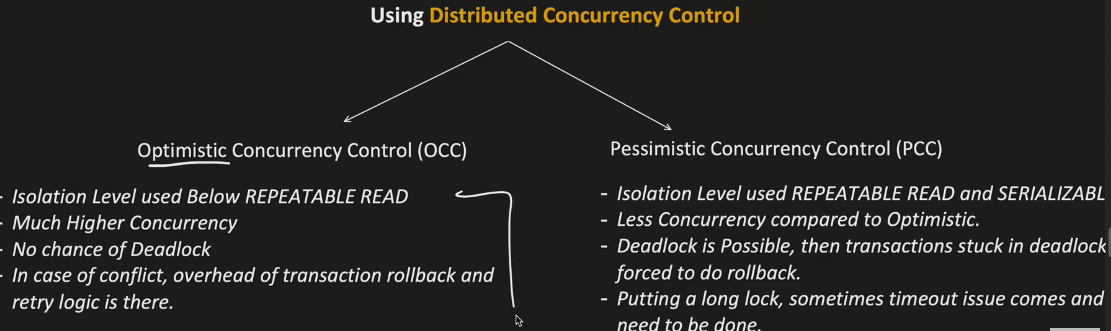
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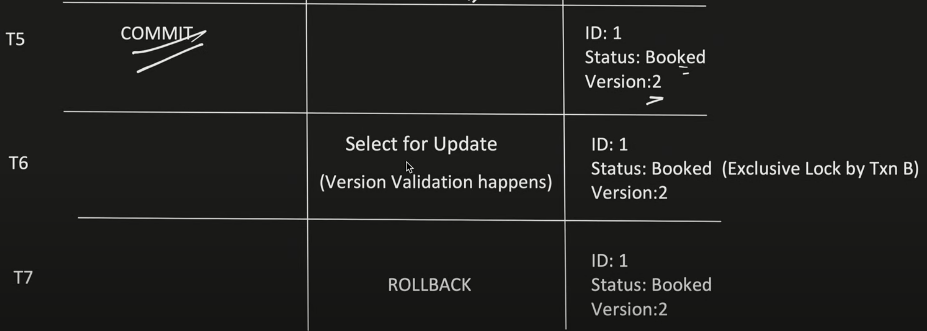
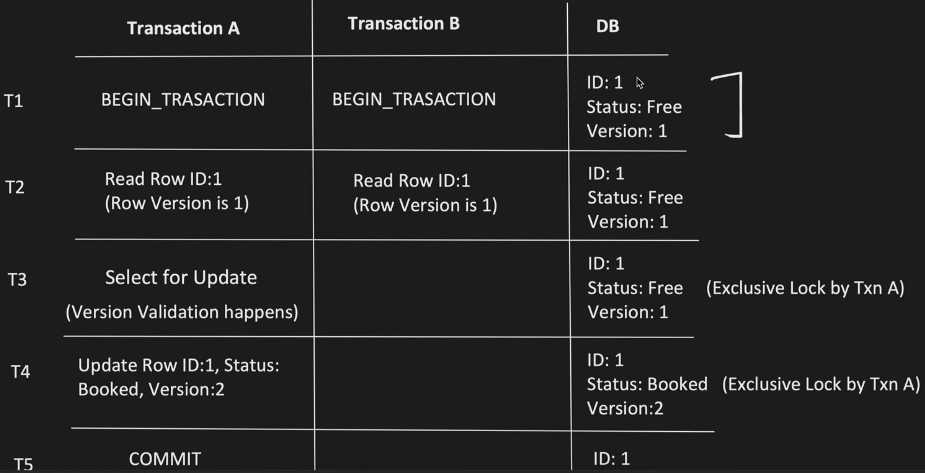
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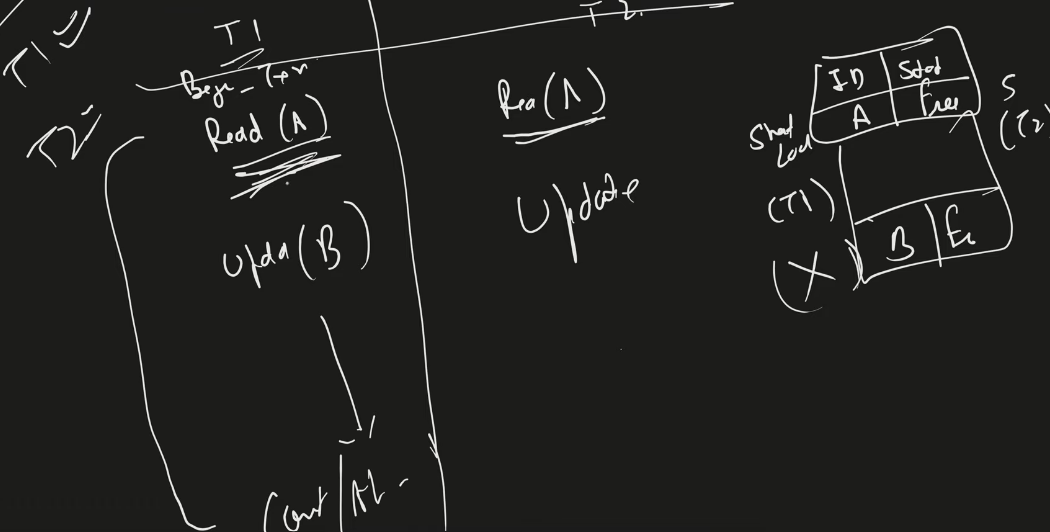
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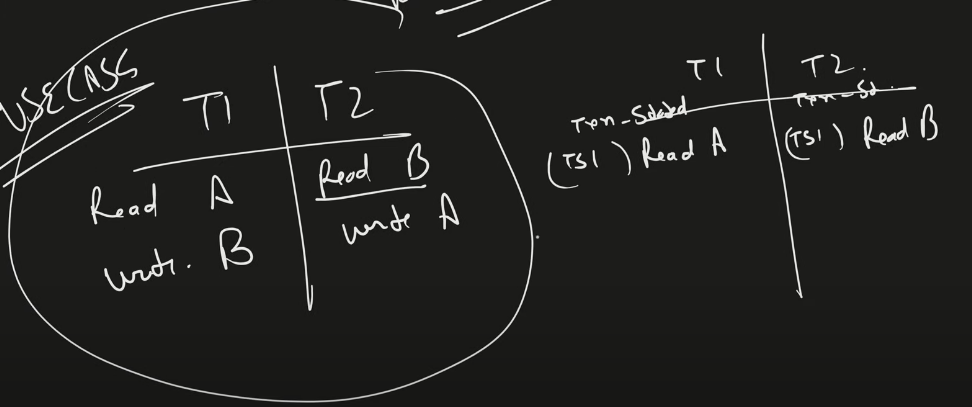
**Optimistic lock using Read Committed Isolation with versioning**

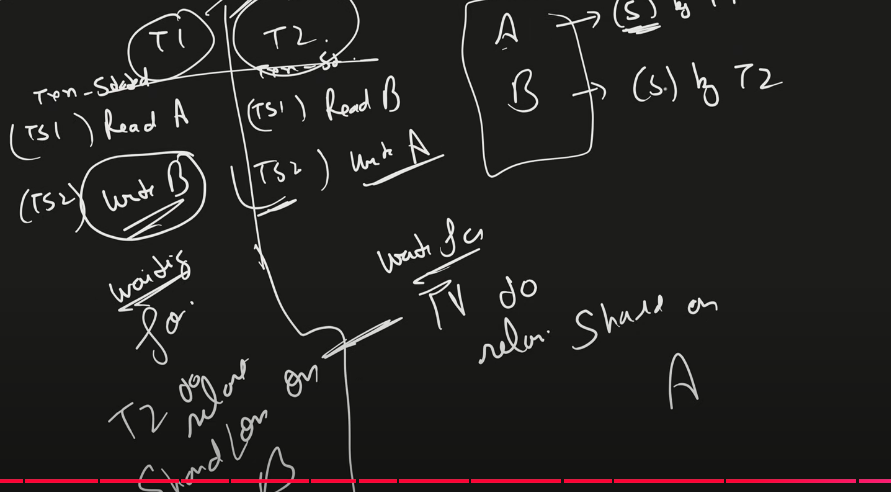
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**Pessimistic locking**

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**Deadlock**

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**After certain time, all transactions got aborted. Timeout is required here**