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Concurrency Control Schemes

Concurrency Control 34

C

into 2 categories:

- Pessimistic or Conservative Approach
- Optimistic Approach

Pessimistic Execution

Notes are recultion

Validate page 22 of 34

Read

Compute

Write

Two methods for implethenting TS Notes are 10 34 User the value of the system as the timestamp

(System Clock).

Use a logical counter that is incremented after a new timestamp has been assigned.

- Validation Based Protects Phases...

 validation Phase? Notes 34

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 - Come after end of Read phase.
 - Certain checks are performed to ensure that no conflict has occurred.
 - For Read only transactions this phase consist of checking that the data elements read are ok, no conflict is there then it is Committed.
 - If conflict is there then transaction is Aborted Restarted.
 - For Updating transactions, it checks whether current transaction leaves database in a consistent state, if not then transaction is Aborted.