Concurrency Control

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Concurrency Control

- In the concurrency control, the multiple transactions can be executed simultaneously.

- It may affect the transaction result. It is highly important to maintain the order of execution of those transactions.

Concurrency control protocols can be broadly divided into two

categories –

- Lock based protocols

- Time stamp based protocols

Need for Concurrency Control

- **Lost Updates** occur when multiple transactions select the same row and update the row based on the value selected

- **The dirty read problem:** Transactions read a value written by a transaction that has been later aborted.

- **Incorrect Summary issue** occurs when one transaction takes summary over the value of all the instances of a repeated data-item, and second transaction update few instances of that specific data-item.

THANK YOU

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