SQL Server Transactions and Locking

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Instructor Bio

- ## Dejan Sarka
  - ~35 years of experience
  - Data Platform MVP, MCT
  - 18 books
  - 20+ courses
  - Focus:
    - Data science
    - Data quality
    - Data modeling

Course Introduction (1)

- In order to achieve a good compromise between data integrity and performance suitable for the business needs, it is essential to select the appropriate transaction isolation level. A developer needs to thoroughly understand the possible problems by selecting an inappropriate isolation level.

Course Introduction (2)

- Fortunately, SQL Server offers all possible isolation levels with both, optimistic and pessimistic locking. Memory-optimized tables do not use locking, but introduce their own set of possible issues. With locking hints, it is possible to control the locking on a lower granularity than with the session-level options. The course explains the possible problems and shows how the problems are solved with different transaction isolation levels.

Modules

- Pessimistic isolation levels
- Optimistic isolation levels
- Memory-optimized tables and isolation levels
- Deadlocks and locking hints

End of module 00: Course Introduction