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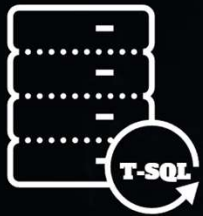
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Database Level 2 Concepts & T-SQL

Table Variables

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Introduction to Table Variables

- Table variables in T-SQL are used to store a set of records temporarily, they have some distinct characteristics and are suitable for different scenarios.
- Table variables are declared using the DECLARE statement and are scoped to the batch, stored procedure, or function in which they are defined.

Advantages of Table Variables

- **Performance:** For small datasets, table variables can be faster since they are stored in memory and not written to disk.
- **Transaction Log:** Operations on table variables generate fewer log records. This can be beneficial in terms of performance.
- **Scope:** The scope of a table variable is limited to the batch, stored procedure, or function in which it is defined. This can simplify transaction management and error handling.

Limitations of Table Variables

- Indexing: By default, you can only create a primary key index at the time of declaration. Additional indexing options are limited.
- Statistics: Lack of statistics can lead to suboptimal query plans for large data sets.

Best Practices

- Data Size Consideration: Prefer table variables for small datasets or simple operations.
- Scope and Lifetime: Use table variables when you need a temporary storage mechanism within a single batch or stored procedure.



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Thank You

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