







Retrieving Modified Data

Special tables

- Identical to target table

INSERTED

- **INSERT** Statement
 - New rows
- **UPDATE** Statement
 - New values

DELETED

- **DELETE** Statement
 - Deleted rows
- **UPDATE** Statement
 - Original values

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MERGE Statements

MERGE Concepts

Combine data from two tables

Determine how to handle conflicts

- Update existing data
- Insert missing data

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MERGE Components

MERGE <TARGET>

- Where to place the data

USING <SOURCE>

- Where to get the data from

ON

- The join to determine matches

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MERGE Matching Options

WHEN MATCHED THEN

- Operation for existing data

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MERGE Matching Options

WHEN NOT MATCHED [BY TARGET] THEN

- Operation for missing data
- Can have optional parameter applied to filter target rows

WHEN NOT MATCHED [BY SOURCE] THEN

- Operation for missing data
- Can have optional parameter applied to filter source rows

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MERGE Matching Options

OUTPUT

- Retrieve modified data
- \$action provides the action taken
 - Insert
 - Delete

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