

# Handling Errors in the Real World

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# Module Overview



## **Compare error handling methods**

- Primary benefits

## **Error handling frameworks**

- Apply a basic template
- Message readability
- Business rules

## **Logging error messages**

- Persisting to a table
- Using a stored procedure

# Comparing RAISERROR and THROW

## RAISERROR

Compatible with pre-SQL 2012

Severity lower than 16

Use the with log option

Continue on with the batch

Use the with nowait option

Can raise system errors

## THROW

Recommended by Microsoft

No need for an existing message id

Will terminate the batch

Accurate line number

No need for parameters

Actual error number



# Demo



## Basic error handling template

- Make it your own



# Demo



## Returning an actionable message

- Check constraint



# Demo



## Enforcing business logic

- Inactive sales people



# Demo



## Row count mismatch

- Stop and rollback the transaction



# Demo



Creating an error logging table

Creating our error logging stored procedure





# What We Covered



## Why even care about error handling

- Planning for failure
- Three ways of controlling for the unknown

## Why transactions are important

- Three types of transactions

## Error message components

## Discussed two ways to raise exceptions

- RAISERROR
- THROW

## Solved problems



Thank You for Watching!

