T-SQL Data Manipulation Playbook



Xavier Morera HELPING DEVELOPERS UNDERSTAND SEARCH & BIG DATA @xmorera www.xaviermorera.com





Different T-SQL sub-languages

- DQL
- DDL
- DCL

DML: Data Manipulation Language

- INSERT, UPDATE, and DELETE

Quick refresher

- SELECT
- WHERE





SELECT is potentially the most common statement used in a database

- But to query data, you need data

Add data to your tables using INSERT

- All columns and all values, values, NULL and default values, explicitly set identity, constraints, and BULK INSERT





Modify data using UPDATE

UPDATE data in

- One row
- Multiple rows

@@ROWCOUNT and OUTPUT

Use variables to perform operations

FROM to use other tables and views





Remove records using DELETE

- Be careful!

DELETE

- One record
- Or multiple records
- Based on condition in another table

Remove data with constraints

- Cascade DELETE

TRUNCATE





Transaction

- Important to maintain data integrity
- Speed

ACID

Autocommit, explicit, and implicit

BEGIN, COMMIT, ROLLBACK, and SAVE

Distributed transactions





INSERT providing multiple values

Populate one table based on a query

Retrieve specific fields for INSERT

OUTPUT

MERGE

BULK INSERT with a format file

