

SQL Server TABLES

SQL Server VIEWS

SQL Server STORED PROCEDURES

Tables

TABLES

Contains all the data in the database in a row-and-column format

A table can have 1,024 columns, and 30,000 columns if using SPARSE

Assign properties to a table and columns and use compression

Views in SQL Server

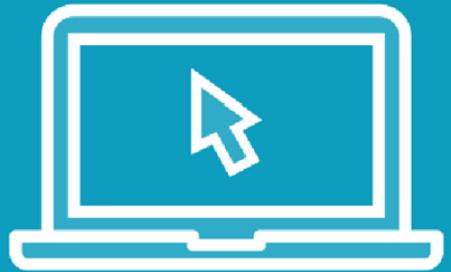
Views

Virtual table defined by a query

Similar to a table with named columns and rows that are produced dynamically when referenced

Acts like filter on tables and can reference multiple tables and provide a level of security

Demo



Stored Procedure in SQL server

Stored Procedures

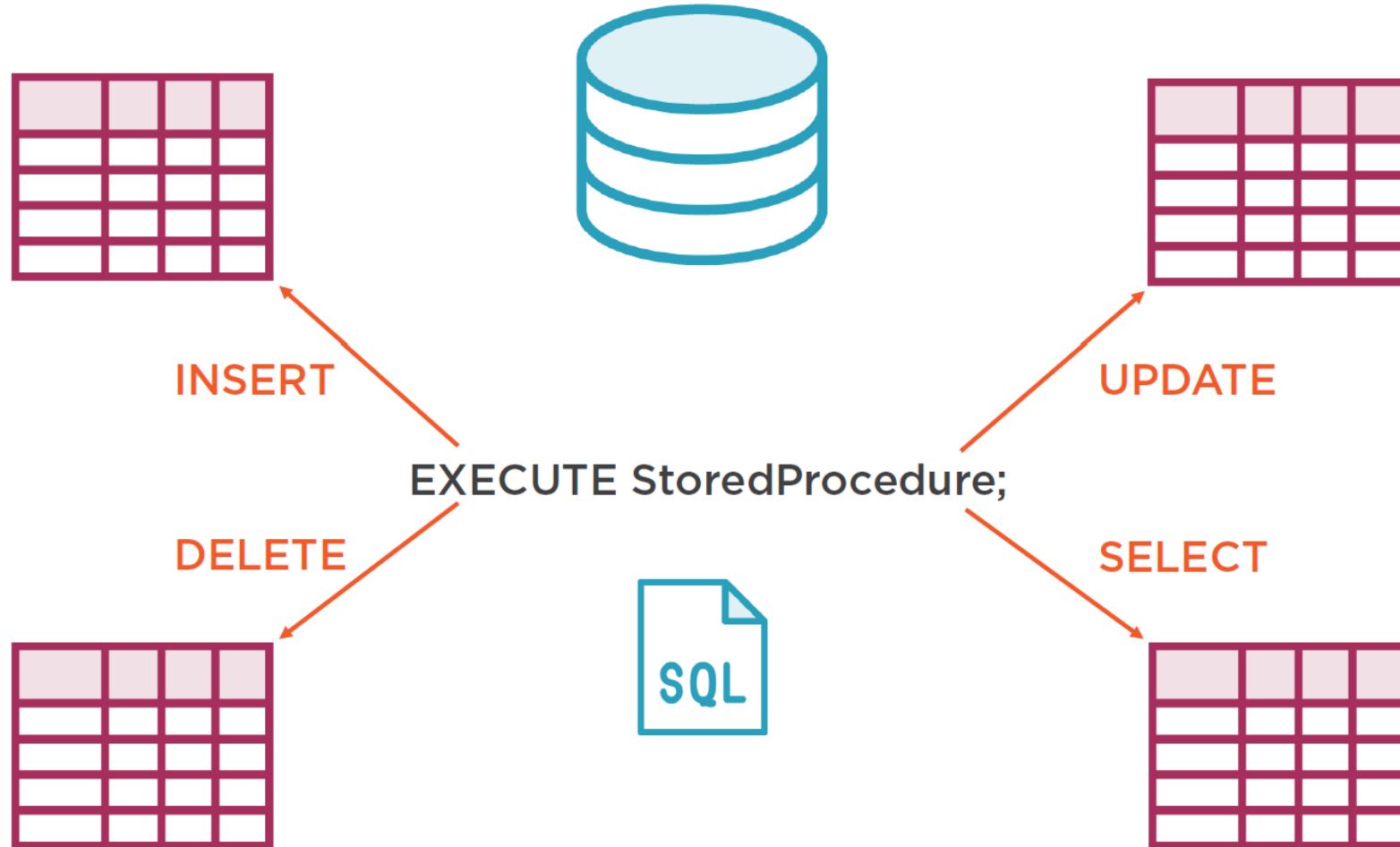
A group of one or more Transact-SQL statements or a reference to a Microsoft .Net Framework CLR method

Can accept input parameters and return multiple values as output parameters

Have programming statements that perform operations within the database

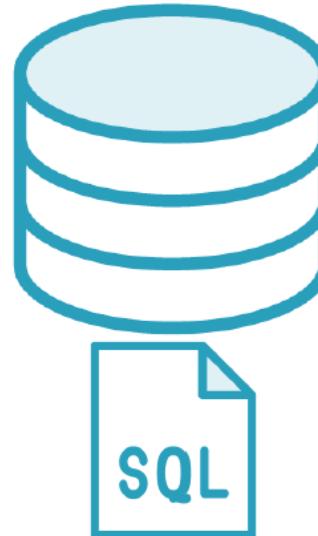
Return a status value indicating success or failure

What a Stored Procedure Does



Write Once, Run Many Times

```
EXECUTE StoredProcedure;  
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```



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```

Stored Procedure Benefits

Reduced
server/client
network traffic

Stronger security

Reuse of code

Easier
maintenance

Improved
performance

```
CREATE PROCEDURE <name of procedure>
(Parameters (optional))
AS
BEGIN;

Statements here...

END;
```

T-SQL Create Procedure Statement
Used to create new stored procedures

CREATE PROCEDURE

ALTER PROCEDURE

DROP PROCEDURE

T-SQL Stored Procedure Statements
[https://docs.microsoft.com/en-us/sql/t-sql/statements/
create-procedure-transact-sql](https://docs.microsoft.com/en-us/sql/t-sql/statements/create-procedure-transact-sql)

Demo

