

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

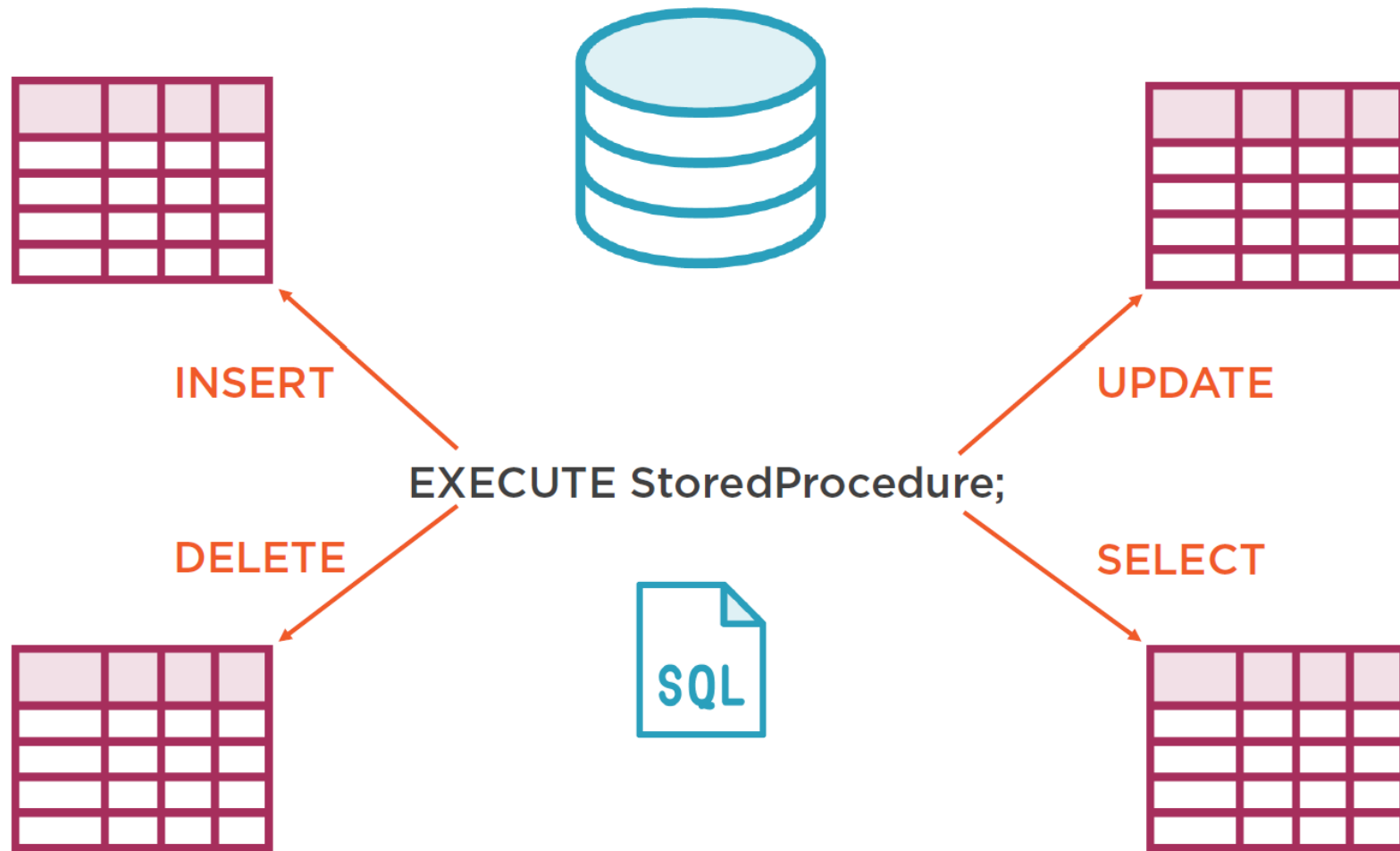
A group of one or more Transact-SQL statements or a reference to a Microsoft .Net Framework CLR method

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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# 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

