Combining and Filtering Data with T-SQL

Setting up the SQL Server Environment

Tamara Pattinson

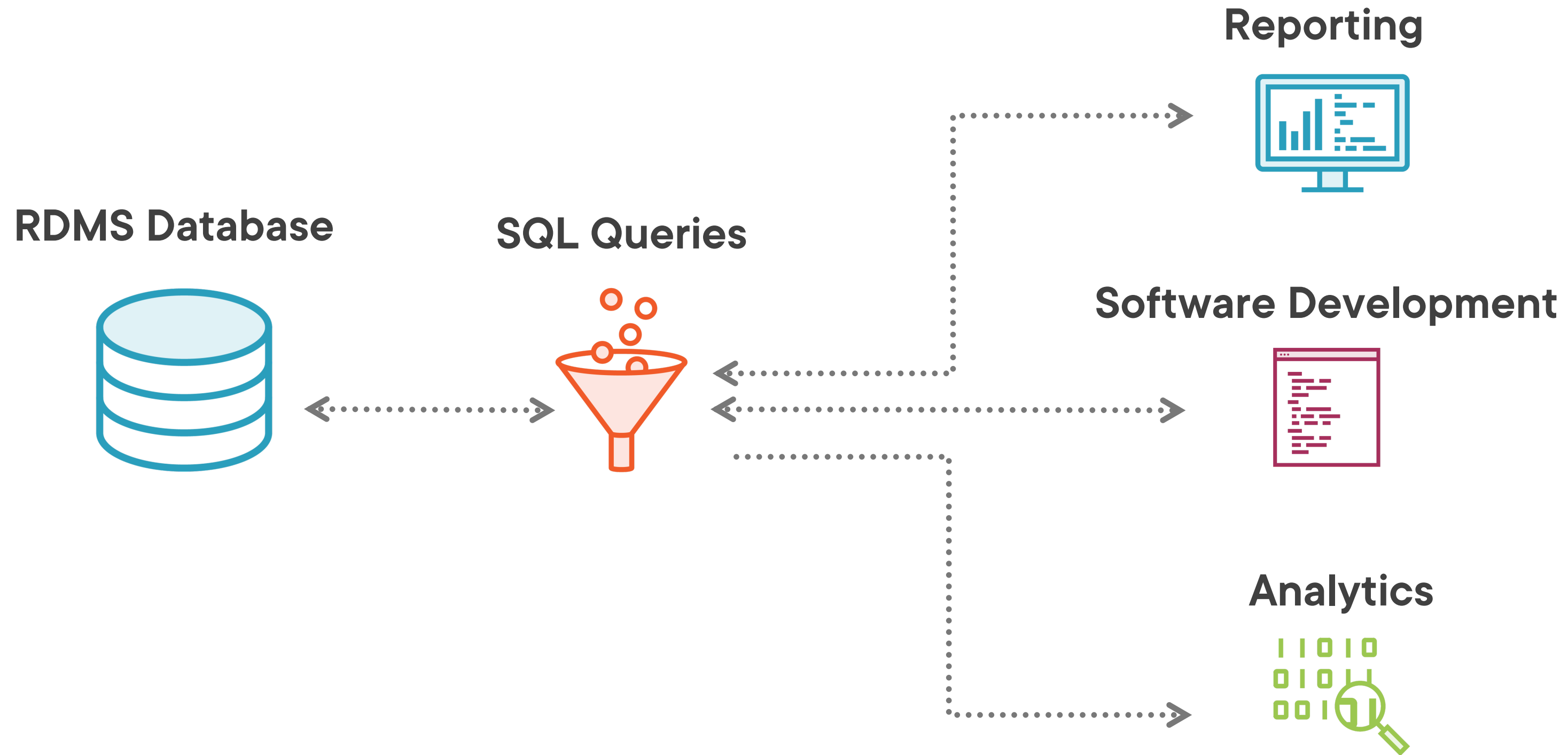Consultant | Software Engineer | Instructor

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Updated for

SQL Server Express 2019
SQL Server Management Studio 18

Beyond the Basics of the T-SQL Query

Reporting

RDMS Database

SQL Queries

Software Development

Analytics

Data Integrity and Query Validation Concerns

Data integrity: Accuracy and consistency of data in tables

Validation: Accuracy of results returned from a query

Getting Ready

Install SQL Server Express

Install SQL Server Management Studio

Download the exercise files and create database

Course Overview

- **Implement T-SQL functions, expressions, logic**
  - **Validate**
  - **Data Integrity**
- **Preparing the environment for SQL Server Queries**
- **SQL Server Management Studio tools**

Overview

SQL Server Express 2019

SQL Server Management Studio

Northwind Database with a script

Worldwide Importers Database with a backup

Using SQL Server Management Studio

Review table relationships

Query Text Editor
- **Commenting code**
- **Keyboard shortcuts**

Object explorer

Customizing the environment

Viewing results execution plans

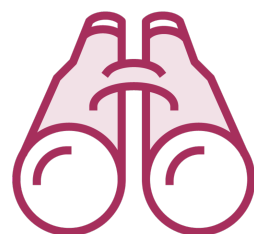**Helpful SQL Server Queries**

Summary

Installed SQL Server Express 2019

Installed SQL Server Management Studio v.18

Created databases using script and backup files

Familiar with the SQL Server Management Studio environment

Resources

Files/Data

- Northwind.sql (script file for creating Northwind database)
- WideWorldImporters – Standard.bak

Files

- SQL Server 2019 Datasheet.pdf

Links

SQL Server Express –

https://www.microsoft.com/en-us/sql-server/sql-server-downloads

SQL Server Management Studio –

https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver15

Connection Troubleshooting –

https://docs.microsoft.com/en-us/sql/database-engine/configure-windows/
troubleshoot-connecting-to-the-sql-server-database-engine?view=sql-server-ver15

Up Next:
Shaping Data in a Query