

XML and JSON Recipes for SQL Server

A Problem-Solution Approach

Quickly find solutions to common problems when working with XML and JSON in SQL Server, now updated for SQL Server 2022 and 2025.

This second edition of XML and JSON Recipes for SQL Server expands the original with new recipes, including a dedicated section on FLWOR (For-Let-Where-Order By-Return) syntax for advanced XML querying. It also covers SQL Server's JSON data type introduced in SQL Server 2025 and the latest JSON functions added in SQL Server 2022, making it easier to build, query, and optimize structured data in modern SQL Server environments

A new chapter explores how XML and JSON are used in SQL Server system processes, including DDL triggers, Extended Events, execution plan parsing, and SSIS code-behind, helping you automate diagnostics and streamline development workflows. Whether you are building automation scripts, integrating with front-end applications, or managing cross-platform data exchange, this book provides practical, ready-to-use solutions.

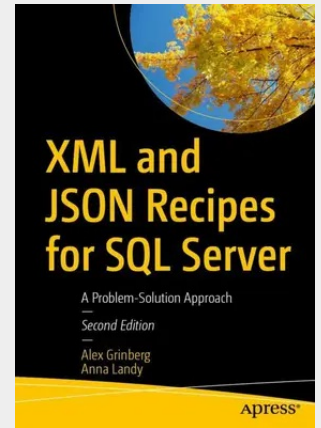
Recipes are presented in a proven problem-solution format: look up the problem, read the solution, and apply it in your own code. Problem solved.

What You Will Learn

- Build XML and JSON objects to support automation, integration, and data transfer.
- Import and parse XML and JSON from operating system files and external sources.
- Construct and optimize indexes on XML data to improve query performance.
- Convert query result sets into JSON format and return them to tabular form.
- Automate performance diagnostics by querying and parsing execution plans in XML.
- Replace manual JSON workflows with SQL Server's built-in JSON functions.
- Use FLWOR syntax for advanced XML filtering and transformation.
- Work with the JSON data type introduced in SQL Server 2025.
- Apply new JSON functions added in SQL Server 2022 for efficient data handling.
- Parse and analyze Extended Events, SSIS code-behind, and DDL triggers using XML and JSON.
- Leverage XML and JSON in SQL Server system processes for automation and monitoring.

Who This Book Is For Database administrators, .NET developers, business intelligence developers, and other data professionals who need a deep, practical skill set for working with XML and JSON in SQL Server. Also useful for web developers who need to transform database result sets into JSON for front-end applications and for teams managing automation, integration, and cross-platform data exchange.

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