

# Database migration assessment report

Source database: NorthwindDB.dbo.sql

Version: Microsoft SQL Server 2019 (RTM) - 15.0.2000.5 (X64) Sep 24 2019 13:48:23

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Developer Edition (64-bit) on Windows 10 Pro 10.0 <X64> (Build 22621: )

Case sensitivity: OFF

## Executive summary

We completed the analysis of your Microsoft SQL Server source database and estimate that 100% of the database storage objects and 100% of database code objects can be converted automatically or with minimal changes if you select Amazon Aurora (PostgreSQL compatible) as your migration target.

Database storage objects include schemas, tables, table constraints, indexes, types, table types, sequences, synonyms and xml schema collections.

Database code objects include triggers, views, procedures, scalar functions, inline functions, table-valued functions and database triggers.

Based on the source code syntax analysis, we estimate 99.8% (based on # lines of code) of your code can be converted to Amazon Aurora (PostgreSQL compatible) automatically.

To complete the migration, we recommend 13 conversion action(s) ranging from simple tasks to medium-complexity actions to complex conversion actions.

Migration guidance for database objects that could not be converted automatically can be found [here](#)

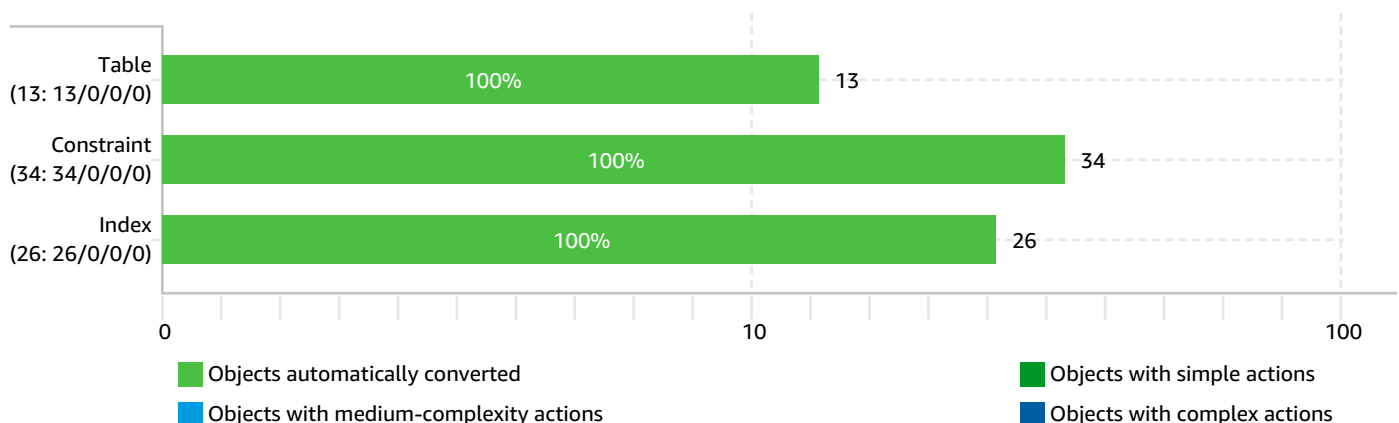
## Database objects with conversion actions for Amazon Aurora (PostgreSQL compatible)

Of the total 73 database storage object(s) and 23 database code object(s) in the source database, we identified 73 (100%) database storage object(s) and 23 (100%) database code object(s) that can be converted to Amazon Aurora (PostgreSQL compatible) automatically or with minimal changes.

The target database version is less than Amazon Aurora(PostgreSQL compatible) 15.2 (15.2). The converted code might not work properly.

The object(s) action(s) complexity is a sum of the complexity of the action items associated with the object. Therefore, an object with multiple simple action items could be treated as "object with medium-complexity actions" or even as "object with complex actions."

Figure: Conversion statistics for database storage objects



## NorthwindDB.dbo: Conversion details



Source database: NorthwindDB.dbo.sql

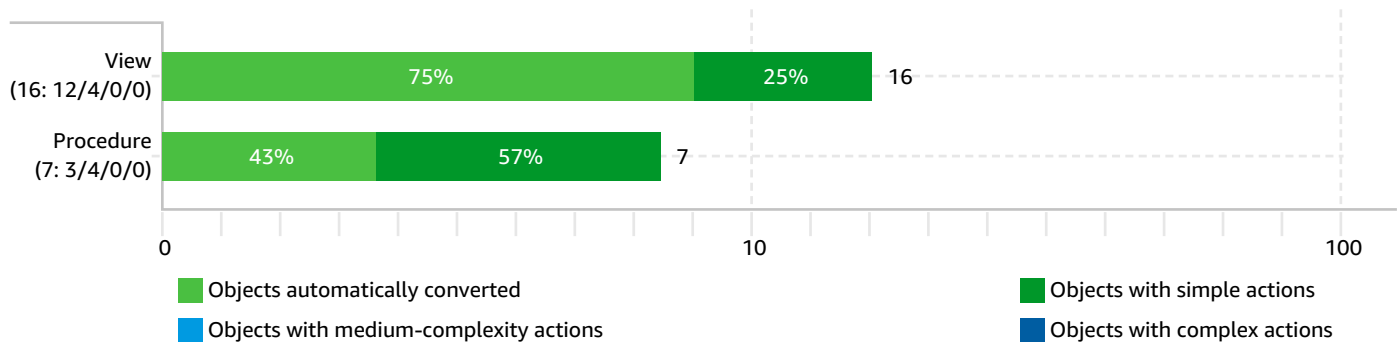
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Figure: Conversion statistics for database code objects



## Detailed recommendations for Amazon Aurora (PostgreSQL compatible) migrations

If you migrate your Microsoft SQL Server database to Amazon Aurora (PostgreSQL compatible), we recommend the following actions.

### Code object actions

#### View Changes

Not all views can be converted automatically. You'll need to address these issues manually.

##### ! Issue 7795: In PostgreSQL, string operations are case sensitive

Recommended action: Review the converted code to make sure that it compares strings correctly.

Issue code: 7795 | Number of occurrences: 4 | Estimated complexity: Simple

Databases.NorthwindDB.Schemas.dbo.Views.Invoices: Line 15:817

Databases.NorthwindDB.Schemas.dbo.Views.Orders Qry: Line 7:452

Databases.NorthwindDB.Schemas.dbo.Views.Quarterly Orders: Line 4:166

Databases.NorthwindDB.Schemas.dbo.Views.Sales Totals by Amount: Line 6:265

#### Procedure Changes

Not all procedures can be converted automatically. You'll need to address these issues manually.

##### ! Issue 7674: AWS SCT can't convert unknown clauses

Recommended action: Convert your source code manually.

Issue code: 7674 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.NorthwindDB.Schemas.dbo.Procedures.Ten Most Expensive Products: Line 3:55

## NorthwindDB.dbo: Conversion details



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Case sensitivity: OFF

### **Issue 7795: In PostgreSQL, string operations are case sensitive**

Recommended action: Review the converted code to make sure that it compares strings correctly.

Issue code: 7795 | Number of occurrences: 8 | Estimated complexity: Simple

Databases.NorthwindDB.Schemas.dbo.Procedures.CustOrderHist: Line 5:160

Databases.NorthwindDB.Schemas.dbo.Procedures.CustOrderHist: Line 6:191

Databases.NorthwindDB.Schemas.dbo.Procedures.CustOrdersOrders: Line 9:133

Databases.NorthwindDB.Schemas.dbo.Procedures.SalesByCategory: Line 4:101

Databases.NorthwindDB.Schemas.dbo.Procedures.SalesByCategory: Line 4:124

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