

Database migration assessment report



Source database: pubs2.dbo.sa@10.0.50.140:5000

Adaptive Server Enterprise/16.0 SP04 GA/EBF 29650 SMP/P/x86_64/SLES 12.4/asecorona/3202/64-bit/

FBO/Wed Nov 18 09:12:58 2020

Executive summary

We completed the analysis of your SAP ASE (Sybase ASE) source database and estimate that 66% of the database storage objects and 54% of database code objects can be converted automatically or with minimal changes if you select Amazon RDS for MySQL as your migration target. Database storage objects include schemas, tables, table constraints, indexes, defaults, table rules, user-defined types, partitions and foreign keys. Database code objects include triggers, views, materialized views, procedures and functions. Based on the source code syntax analysis, we estimate 88% (based on # lines of code) of your code can be converted to Amazon RDS for MySQL automatically. To complete the migration, we recommend 22 conversion action(s) ranging from simple tasks to medium-complexity actions to complex conversion actions.

Database objects with conversion actions for Amazon RDS for MySQL

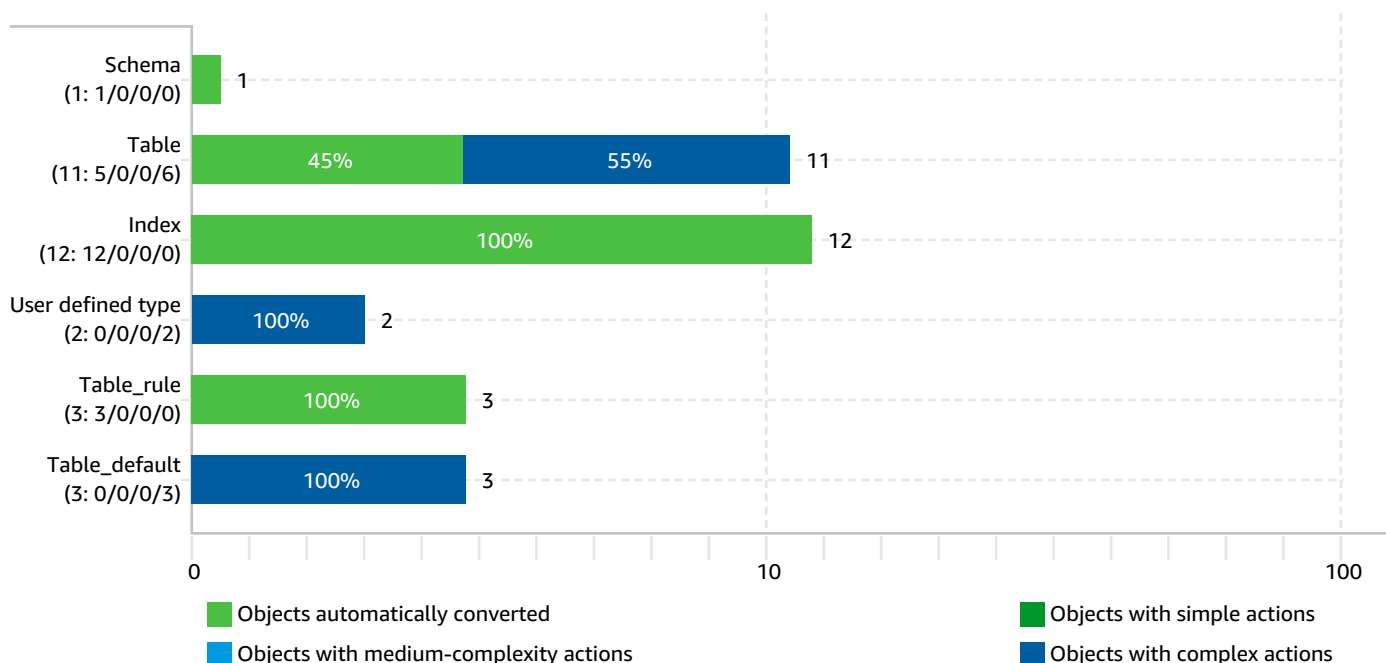
Of the total 32 database storage object(s) and 13 database code object(s) in the source database, we identified 21 (66%) database storage object(s) and 7 (54%) database code object(s) that can be converted to Amazon RDS for MySQL automatically or with minimal changes.

11 (34%) database storage object(s) require 12 complex user action(s) to complete the conversion.

6 (46%) database code object(s) require 6 complex user action(s) to complete the conversion.

The object actions 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



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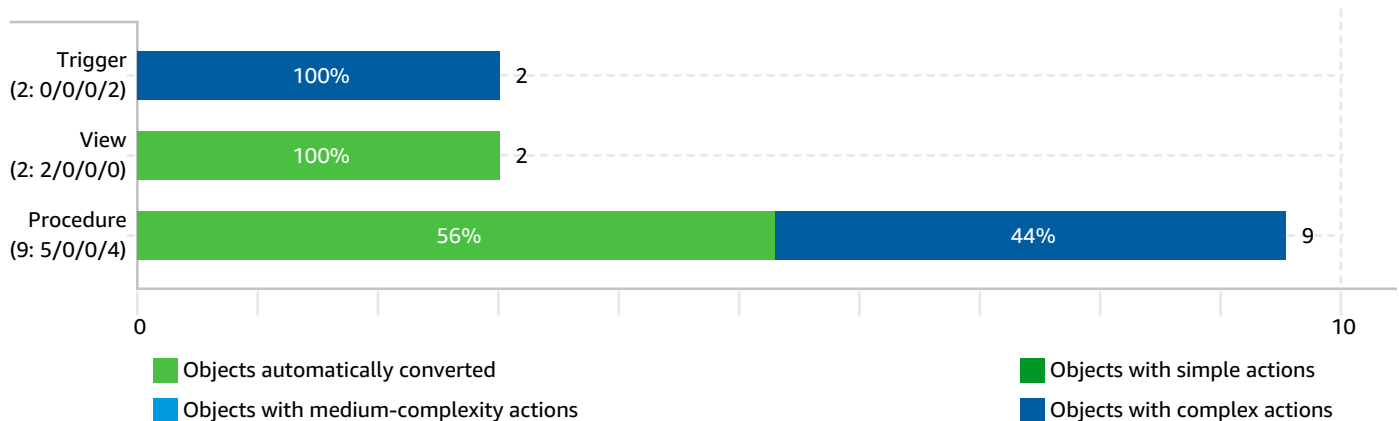


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Figure: Conversion statistics for database code objects



Detailed recommendations for Amazon RDS for MySQL migrations

If you migrate your SAP ASE (Sybase ASE) database to Amazon RDS for MySQL, we recommend the following actions.

Storage object actions

Table Changes

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

Issue 1009: Unable to convert

Recommended action: The user datatype has been replaced by the base datatype.

Issue code: 1009 | Number of occurrences: 7 | Estimated complexity: Complex

Documentation references: <https://dev.mysql.com/doc/refman/5.7/en/data-types.html>

Databases.pubs2.Schemas.dbo.Tables.authors.Columns.au_id
Databases.pubs2.Schemas.dbo.Tables.blurbs.Columns.au_id
Databases.pubs2.Schemas.dbo.Tables.roysched.Columns.title_id
Databases.pubs2.Schemas.dbo.Tables.salesdetail.Columns.title_id
Databases.pubs2.Schemas.dbo.Tables.titleauthor.Columns.au_id
+2 more

User defined type Changes

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

Issue 9994: Unable to convert objects

Recommended action: Perform manual conversion.

Issue code: 9994 | Number of occurrences: 2 | Estimated complexity: Complex

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Databases.pubs2.Schemas.dbo.User defined types.id
Databases.pubs2.Schemas.dbo.User defined types.tid

Table_default Changes

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

Issue 9994: Unable to convert objects

Recommended action: Perform manual conversion.

Issue code: 9994 | Number of occurrences: 3 | Estimated complexity: Complex

Databases.pubs2.Schemas.dbo.Defaults.datedflt
Databases.pubs2.Schemas.dbo.Defaults.phonedflt
Databases.pubs2.Schemas.dbo.Defaults.typedflt

Code object actions

Trigger Changes

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

Issue 9994: Unable to convert objects

Recommended action: Perform manual conversion.

Issue code: 9994 | Number of occurrences: 2 | Estimated complexity: Complex

Databases.pubs2.Schemas.dbo.Tables.salesdetail.Triggers.totalsales_trig
Databases.pubs2.Schemas.dbo.Tables.titles.Triggers.delttitle

Procedure Changes

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

Issue 1048: Check conversion @@rowcount function

Recommended action: Please review generated code and modify it if necessary.

Issue code: 1048 | Number of occurrences: 4 | Estimated complexity: Simple

Databases.pubs2.Schemas.dbo.Procedures.storeid_proc: Line 13:222
Databases.pubs2.Schemas.dbo.Procedures.storename_proc: Line 15:341
Databases.pubs2.Schemas.dbo.Procedures.title_proc: Line 7:183
Databases.pubs2.Schemas.dbo.Procedures.titleid_proc: Line 7:200

Issue 9996: Internal Converter error occurred

Recommended action: Please submit report to developers.

Issue code: 9996 | Number of occurrences: 4 | Estimated complexity: Complex

Databases.pubs2.Schemas.dbo.Procedures.storeid_proc: Line 13:222
Databases.pubs2.Schemas.dbo.Procedures.storename_proc: Line 15:341
Databases.pubs2.Schemas.dbo.Procedures.title_proc: Line 7:183

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Databases.pubs2.Schemas.dbo.Procedures.titleid_proc: Line 7:200