Database migration assessment report

aws

Source database: dms_sample.dbo.SQL Server - localhost:1433
Version: Microsoft SQL Server 2017 (RTM-CU13) (KB4466404) - 14.0.3048.4 (X64) Nov 30 2018 12:57:58
Copyright (C) 2017 Microsoft Corporation
Standard Edition (64-bit) on Windows Server 2019 Datacenter 10.0 <X64> (Build 17763:) (Hypervisor)
Case sensitivity: OFF

Executive summary

| Target Platform | Auto or minimal changes | | | Complex actions | | | |
| | Storage objects | Code objects | Conversion actions | Storage objects | | Code objects | |
				Objects count	Conversion actions	Objects count	Conversion actions
Amazon RDS for MySQL	60 (98%)	8 (35%)	42	1 (2%)	1	15 (65%)	56
Amazon Aurora (MySQL compatible)	60 (98%)	8 (35%)	42	1 (2%)	1	15 (65%)	56
Amazon RDS for PostgreSQL	60 (98%)	14 (61%)	51	1 (2%)	1	9 (39%)	19
Amazon Aurora (PostgreSQL compatible)	60 (98%)	14 (61%)	51	1 (2%)	1	9 (39%)	19
Amazon RDS for MariaDB	60 (98%)	7 (30%)	42	1 (2%)	1	16 (70%)	58
Amazon Redshift	**61 (100%)**	7 (30%)	124	**0 (0%)**	**0**	16 (70%)	29
Amazon Glue	0 (0%)	**17 (100%)**	**0**	**0 (0%)**	**0**	**0 (0%)**	**0**
Babelfish for Aurora PostgreSQL	**61 (100%)**	10 (43%)	11	**0 (0%)**	**0**	13 (57%)	67

We completed the analysis of your Microsoft SQL Server source database and estimate that 98% of the database storage objects and 35% 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, 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 92% (based on # lines of code) of your code can be converted to Amazon RDS for MySQL automatically. To complete the migration, we recommend 99 conversion action(s) ranging from simple tasks to medium-complexity actions to complex conversion actions.

If you select Amazon Aurora (MySQL compatible) as your migration target, we estimate that 98% of the database storage objects and 35% of database code objects can be converted automatically or with minimal changes. Based on the source code syntax analysis, we estimate 92% (based on # lines of code) of your code can be converted to Amazon Aurora (MySQL compatible) automatically. We recommend 99 conversion action(s) to complete the conversion work.

If you select Amazon RDS for PostgreSQL as your migration target, we estimate that 98% of the database storage objects and 61% of database code objects can be converted automatically or with minimal changes. Based on the source code syntax analysis, we estimate 99.1% (based on # lines of code) of your code can be converted to Amazon RDS for PostgreSQL automatically. We recommend 71 conversion action(s) to complete the conversion work.

Database migration assessment report

If you select Amazon Aurora (PostgreSQL compatible) as your migration target, we estimate that 98% of the database storage objects and 61% of database code objects can be converted automatically or with minimal changes. Based on the source code syntax analysis, we estimate 99.1% (based on # lines of code) of your code can be converted to Amazon Aurora (PostgreSQL compatible) automatically. We recommend 71 conversion action(s) to complete the conversion work.

If you select Amazon RDS for MariaDB as your migration target, we estimate that 98% of the database storage objects and 30% of database code objects can be converted automatically or with minimal changes. Based on the source code syntax analysis, we estimate 91% (based on # lines of code) of your code can be converted to Amazon RDS for MariaDB automatically. We recommend 101 conversion action(s) to complete the conversion work.

If you select Amazon Redshift as your migration target, we estimate that 100% of the database storage objects and 30% of database code objects can be converted automatically or with minimal changes. Based on the source code syntax analysis, we estimate 95% (based on # lines of code) of your code can be converted to Amazon Redshift automatically. We recommend 153 conversion action(s) to complete the conversion work.

If you select Babelfish for Aurora PostgreSQL as your migration target, we estimate that 100% of the database storage objects and 43% of database code objects can be converted automatically or with minimal changes. Based on the source code syntax analysis, we estimate 98% (based on # lines of code) of your code can be converted to Babelfish for Aurora PostgreSQL automatically. We recommend 78 conversion action(s) to complete the conversion work.

Migration guidance for database objects that could not be converted automatically can be found here

Database objects with conversion actions for Amazon RDS for MySQL

Of the total 61 database storage object(s) and 23 database code object(s) in the source database, we identified 60 (98%) database storage object(s) and 8 (35%) database code object(s) that can be converted to Amazon RDS for MySQL automatically or with minimal changes.

1 (2%) database storage object(s) require 1 complex user action(s) to complete the conversion.

15 (65%) database code object(s) require 1 medium and 55 complex user action(s) to complete the conversion.

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."

Database migration assessment report

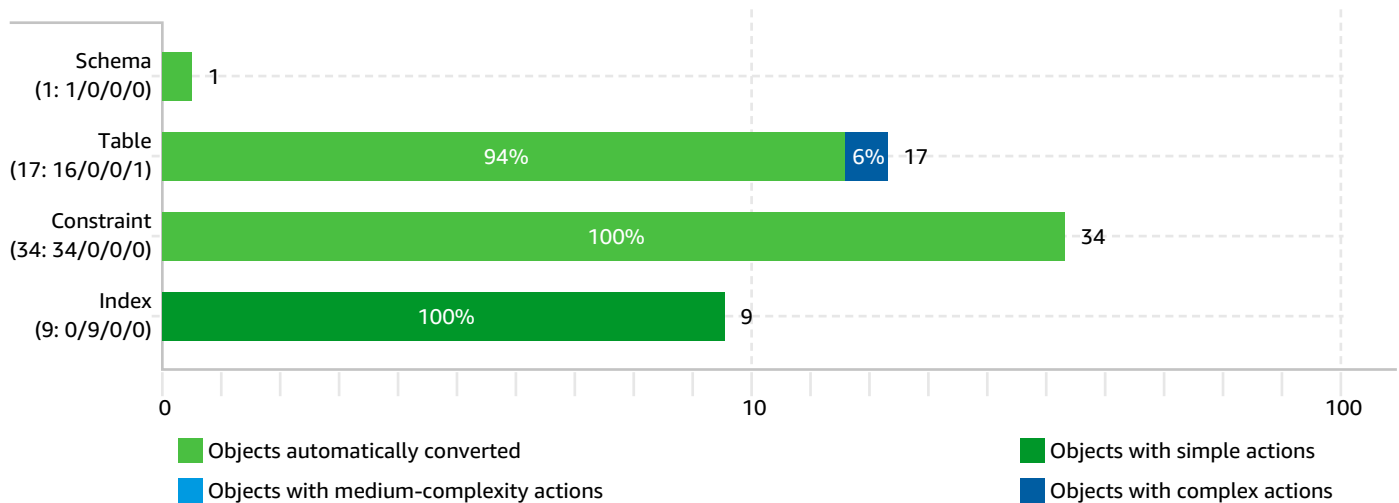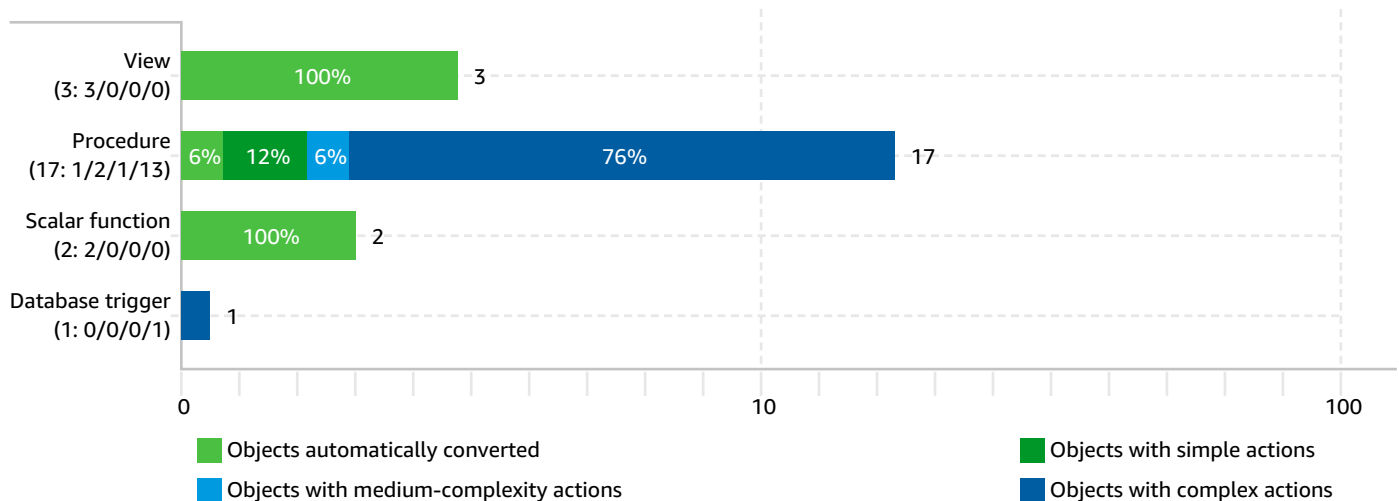**Figure: Conversion statistics for database storage objects**

Figure: Conversion statistics for database code objects

Database objects with conversion actions for Amazon Aurora (MySQL compatible)

Of the total 61 database storage object(s) and 23 database code object(s) in the source database, we identified 60 (98%) database storage object(s) and 8 (35%) database code object(s) that can be converted to Amazon Aurora (MySQL compatible) automatically or with minimal changes.

1 (2%) database storage object(s) require 1 complex user action(s) to complete the conversion.

15 (65%) database code object(s) require 1 medium and 55 complex user action(s) to complete the conversion.

Database migration assessment report

Figure: Conversion statistics for database storage objects
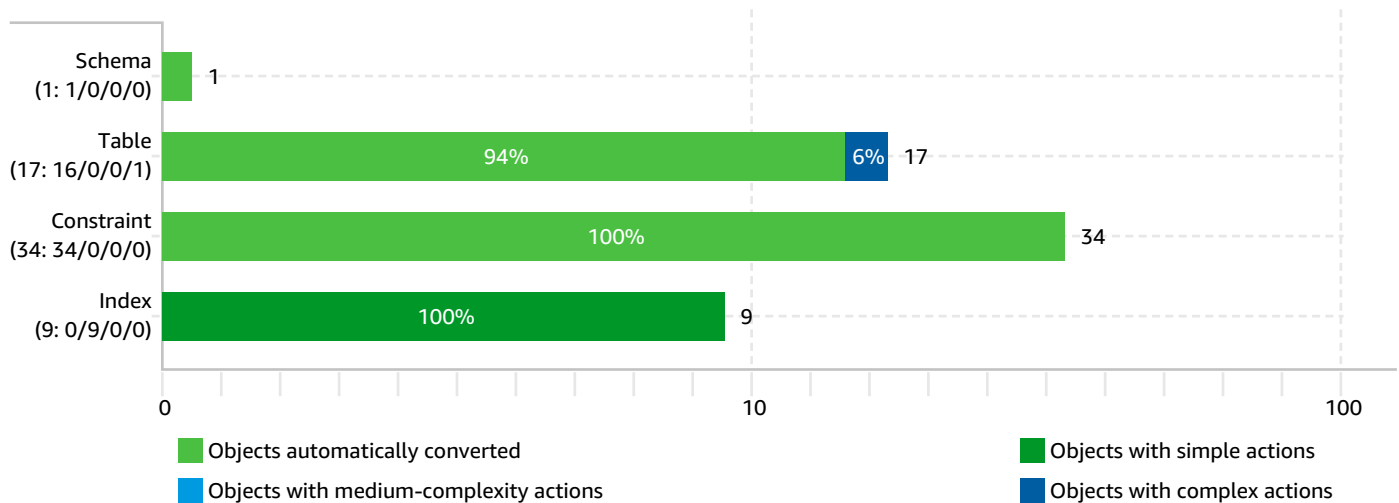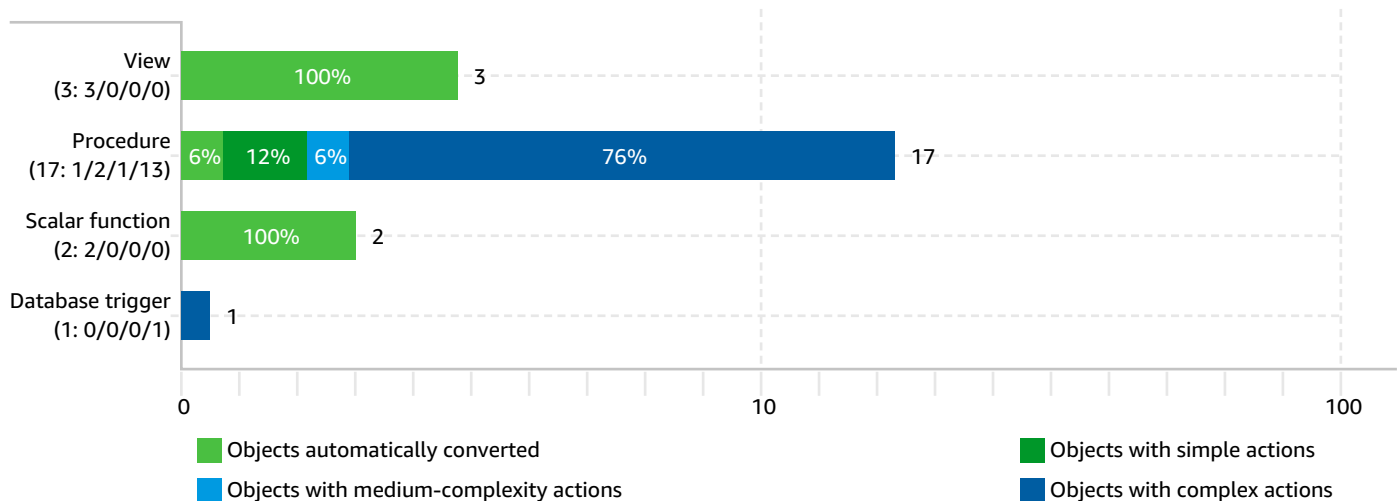

Figure: Conversion statistics for database code objects

Database objects with conversion actions for Amazon RDS for PostgreSQL

Of the total 61 database storage object(s) and 23 database code object(s) in the source database, we identified 60 (98%) database storage object(s) and 14 (61%) database code object(s) that can be converted to Amazon RDS for PostgreSQL automatically or with minimal changes.

1 (2%) database storage object(s) require 1 complex user action(s) to complete the conversion.

9 (39%) database code object(s) require 19 complex user action(s) to complete the conversion.

Database migration assessment report

Figure: Conversion statistics for database storage objects

Figure: Conversion statistics for database code objects

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

Of the total 61 database storage object(s) and 23 database code object(s) in the source database, we identified 60 (98%) database storage object(s) and 14 (61%) database code object(s) that can be converted to Amazon Aurora (PostgreSQL compatible) automatically or with minimal changes.

1 (2%) database storage object(s) require 1 complex user action(s) to complete the conversion.

9 (39%) database code object(s) require 19 complex user action(s) to complete the conversion.

Database migration assessment report

Figure: Conversion statistics for database storage objects

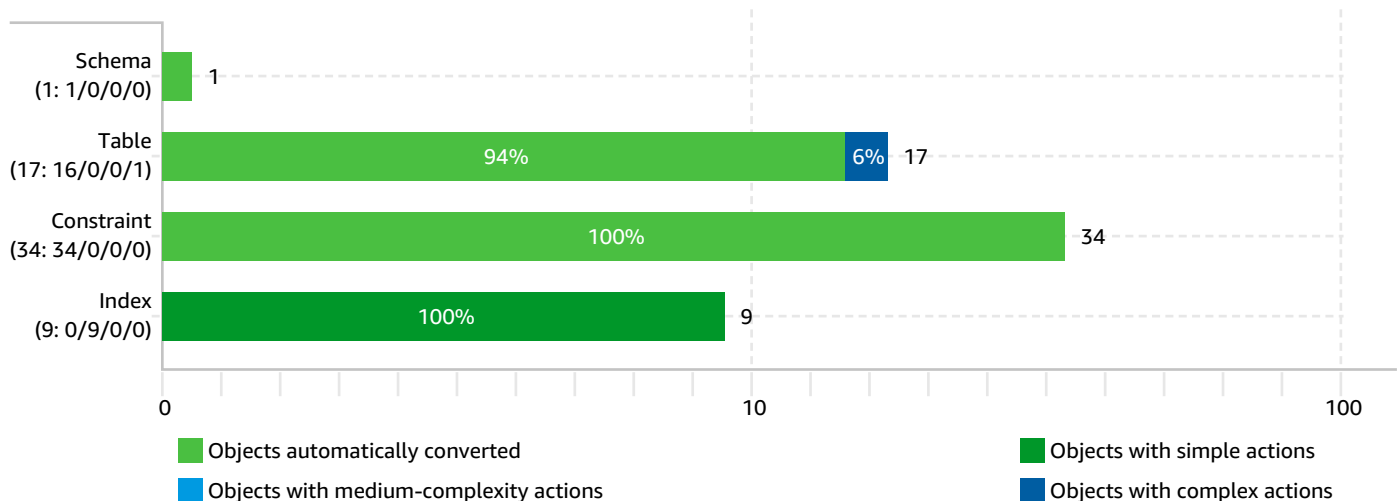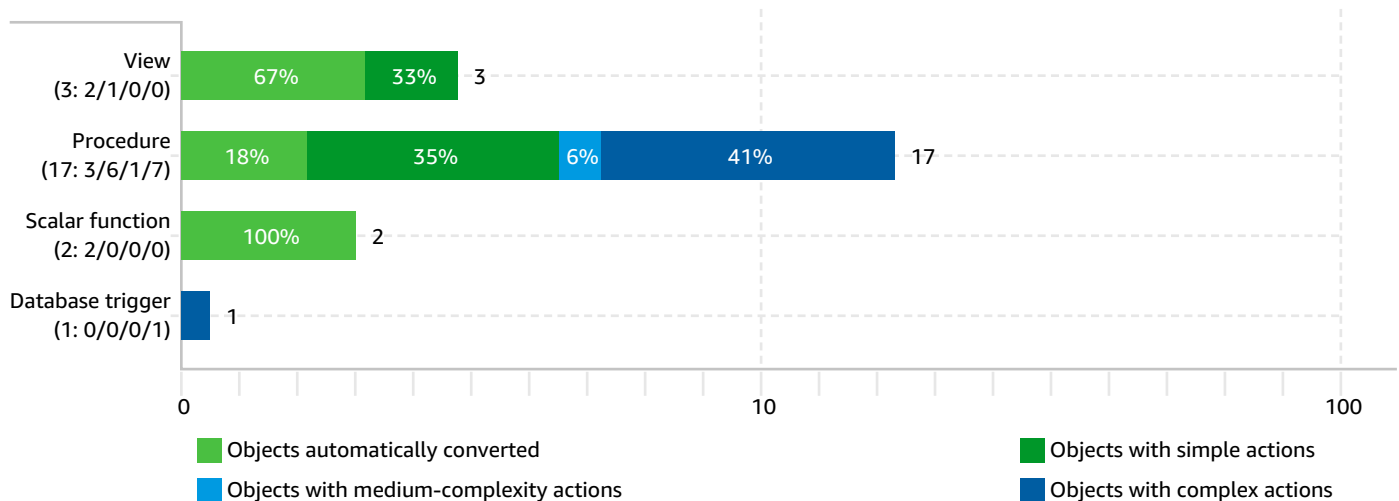**Figure: Conversion statistics for database code objects**

Database objects with conversion actions for Amazon RDS for MariaDB

Of the total 61 database storage object(s) and 23 database code object(s) in the source database, we identified 60 (98%) database storage object(s) and 7 (30%) database code object(s) that can be converted to Amazon RDS for MariaDB automatically or with minimal changes.

1 (2%) database storage object(s) require 1 complex user action(s) to complete the conversion.

16 (70%) database code object(s) require 1 medium and 57 complex user action(s) to complete the conversion.

Database migration assessment report

Figure: Conversion statistics for database storage objects

Figure: Conversion statistics for database code objects

Database objects with conversion actions for Amazon Redshift

Of the total 61 database storage object(s) and 23 database code object(s) in the source database, we identified 61 (100%) database storage object(s) and 7 (30%) database code object(s) that can be converted to Amazon Redshift automatically or with minimal changes.

16 (70%) database code object(s) require 19 medium and 10 complex user action(s) to complete the conversion.

Database migration assessment report

Figure: Conversion statistics for database storage objects

- Objects automatically converted
- Objects with simple actions
- Objects with medium-complexity actions
- Objects with complex actions

Figure: Conversion statistics for database code objects

- Objects automatically converted
- Objects with simple actions
- Objects with medium-complexity actions
- Objects with complex actions

Database objects with conversion actions for Babelfish for Aurora PostgreSQL

Of the total 61 database storage object(s) and 23 database code object(s) in the source database, we identified 61 (100%) database storage object(s) and 10 (43%) database code object(s) that can be converted to Babelfish for Aurora PostgreSQL automatically or with minimal changes.

13 (57%) database code object(s) require 67 complex user action(s) to complete the conversion.

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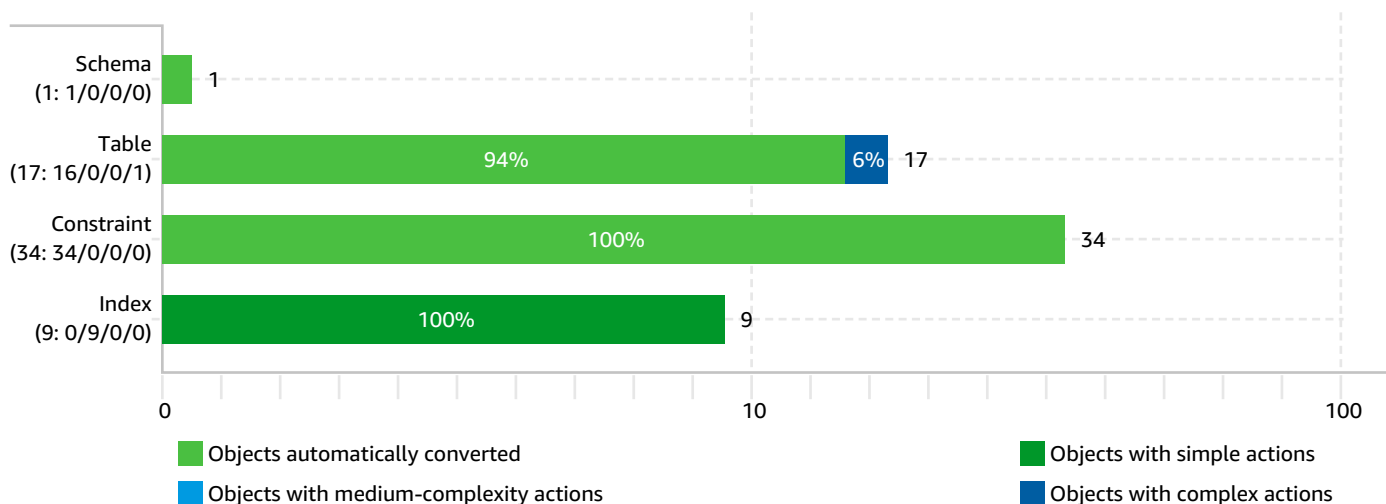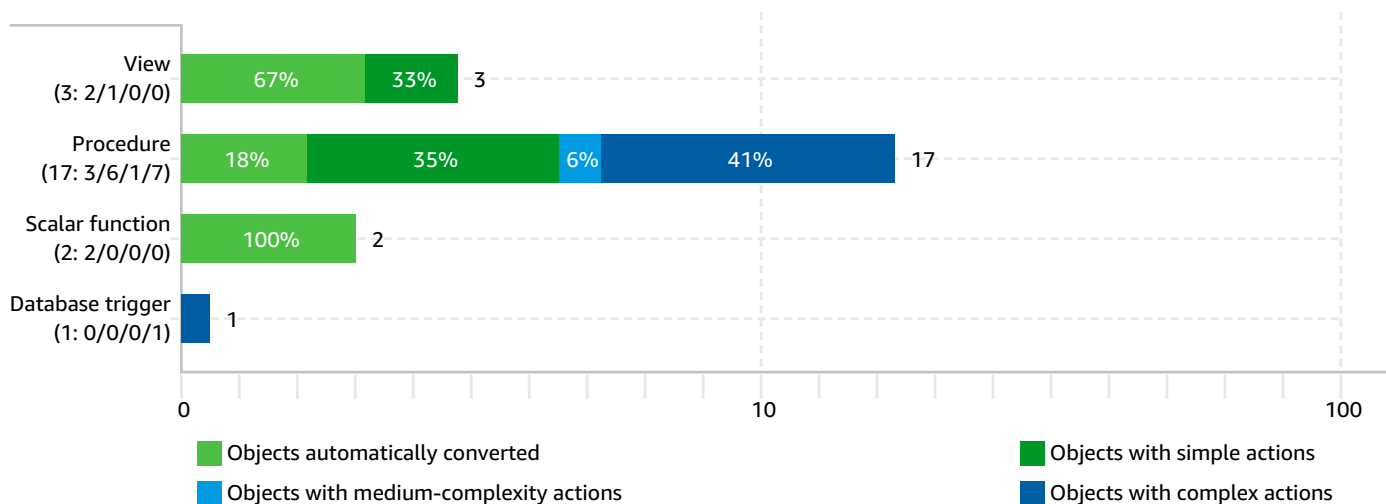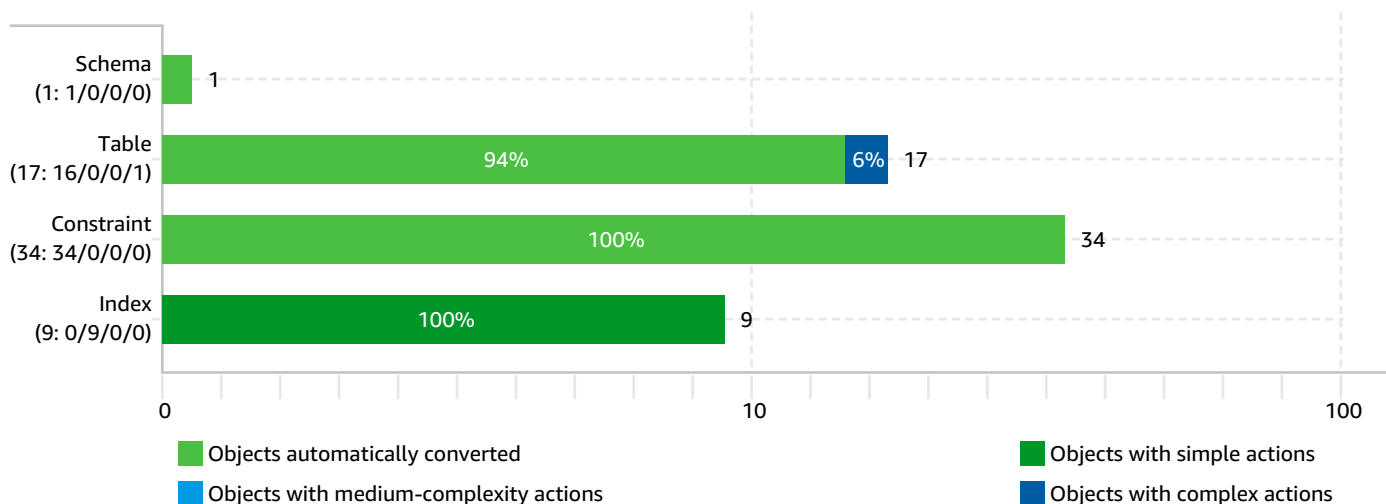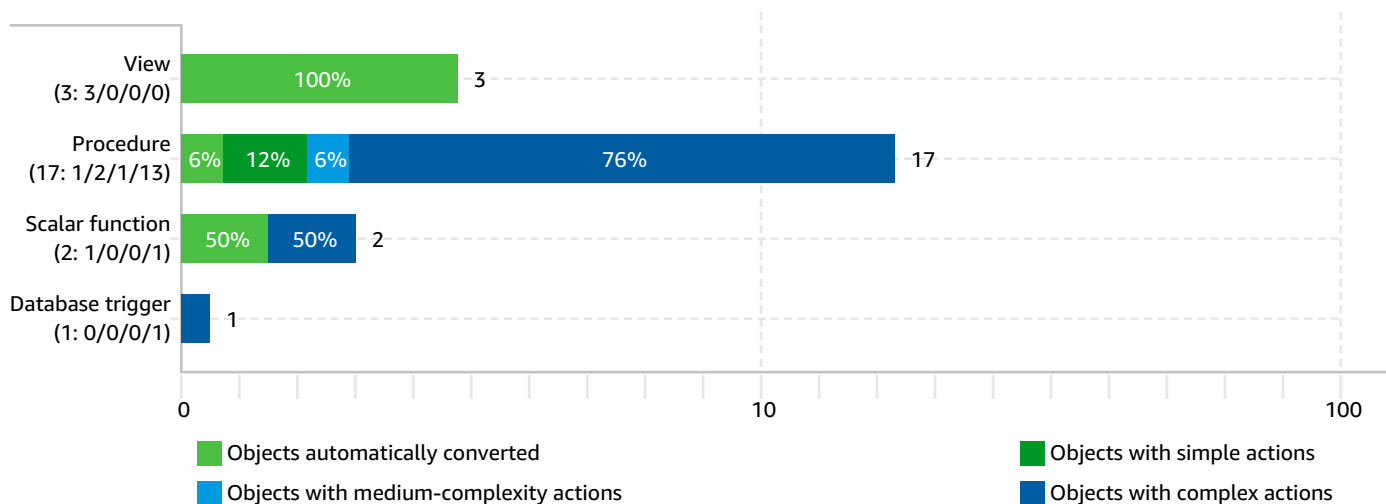**Figure: Conversion statistics for database storage objects**
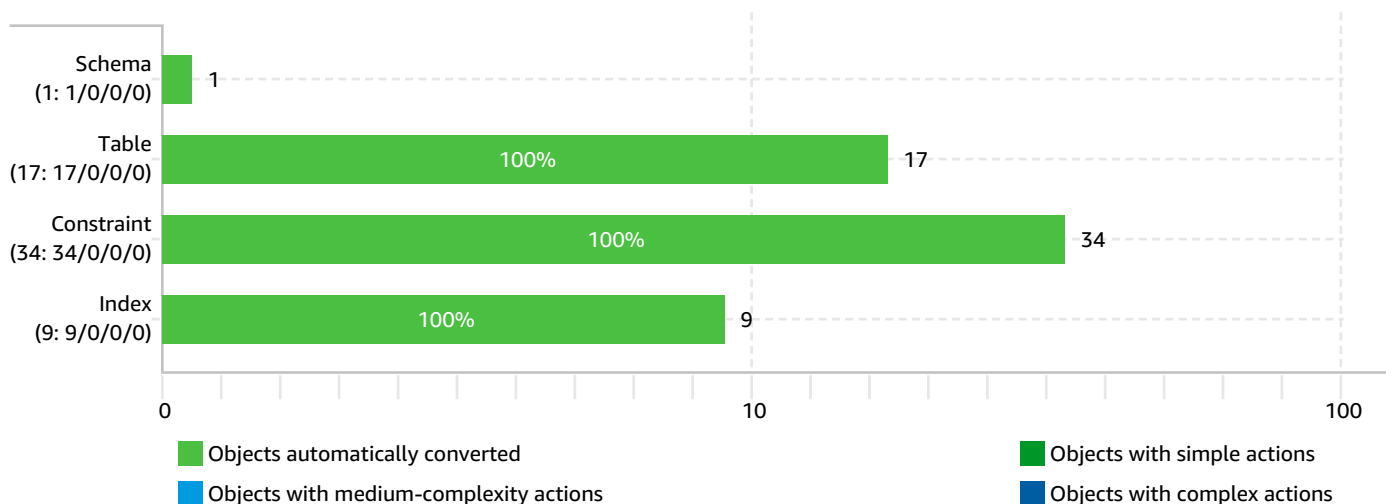
Figure: Conversion statistics for database code objects
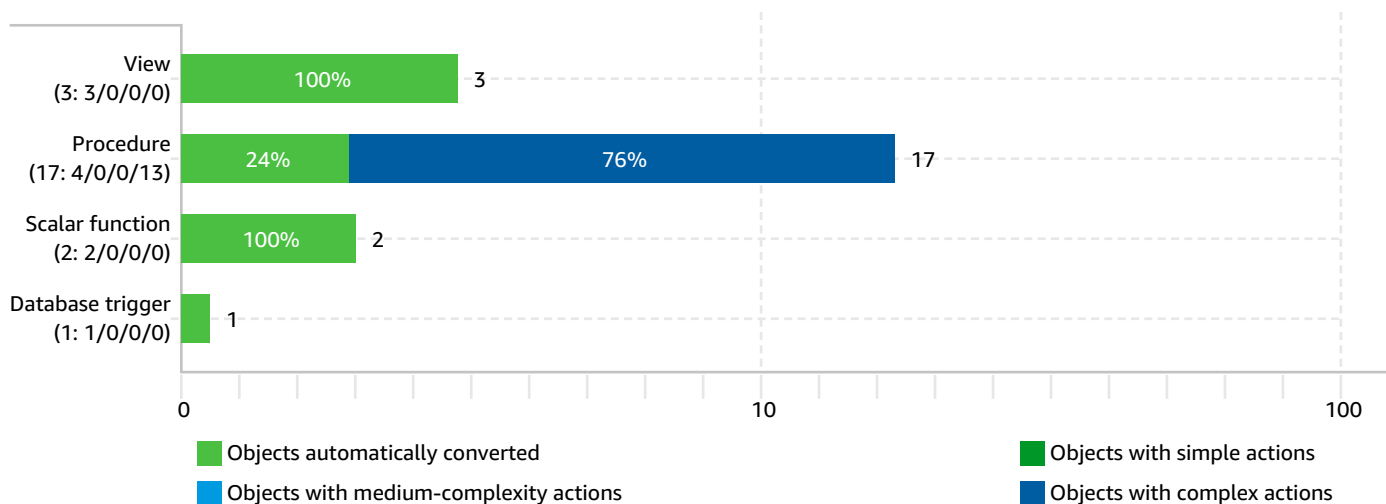
Detailed recommendations for Amazon RDS for MySQL migrations

If you migrate your Microsoft SQL Server 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.

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Source database: dms_sample.dbo.SQL Server - localhost:1433
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Case sensitivity: OFF

⊖ Issue 811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 811 | Number of occurrences: 1 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Columns.start_date

Index Changes

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

❗ Issue 684: MySQL doesn't support the WITH option in indexes

Recommended action: Use indexes without this option.

Issue code: 684 | Number of occurrences: 9 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Tables.seat.Indexes.seat_sport_location_idx
Databases.dms_sample.Schemas.dbo.Tables.sport_team.Indexes.sport_team_u
Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Indexes.se_start_date
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_ev_id_tkholder_id_idx
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_seat_idx
+4 more

Code object actions

Procedure Changes

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

❗ Issue 616: MySQL doesn't support the OUTPUT clause in the statements INSERT, UPDATE, and DELETE. A manual conversion is required

Recommended action: Create a trigger for UPDATE statements for the table, and then save the changed rows in a temporary table. After the UPDATE operation, you can make use of the rows saved in the temporary table. This logic can be placed in a stored procedure.

Issue code: 616 | Number of occurrences: 1 | Estimated complexity: Simple

Documentation references: https://dev.mysql.com/doc/refman/8.0/en/update.html

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 32:1171

❗ Issue 659: The scope table-variables and temporary tables is different. You must apply manual conversion, if you are using recursion

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

Issue code: 659 | Number of occurrences: 4 | Estimated complexity: Simple

Documentation references: https://dev.mysql.com/doc/refman/8.0/en/data-types.html

Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 13:286

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Case sensitivity: OFF

Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 23:531
Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 6:146
Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 9:292

⊕ Issue 675: These keywords are reserved for future extensions to specify ascending or descending index-value storage. Currently, these keywords are parsed but ignored. Index values are always stored in ascending order

Recommended action: Use indexes without this option.

Issue code: 675 | Number of occurrences: 2 | Estimated complexity: Simple

Documentation references: http://dev.mysql.com/doc/refman/8.0/en/create-index.html

Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 18:394
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 19:413

⊕ Issue 733: MySQL doesn't support the PRINT procedure

Recommended action: Try using INSERT in the log table. To do this, you must add code into ..PRINT.

Issue code: 733 | Number of occurrences: 7 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 42:1501
Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 51:1782
Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 24:689
Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 50:1603
Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 64:1954
+2 more

⊕ Issue 810: MySQL doesn't support the SET NOCOUNT

Recommended action: If need try another way to send message back to the client application.

Issue code: 810 | Number of occurrences: 5 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 12:192
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 12:197
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 10:141
Databases.dms_sample.Schemas.dbo.Procedures.sp_helpdiagramdefinition: Line 10:155
Databases.dms_sample.Schemas.dbo.Procedures.sp_renamediagram: Line 12:177

⊕ Issue 837: MySQL and MS SQL Server handle errors differently, so check result of code conversion

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

Issue code: 837 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 68:2305

⊕ Issue 9997: Unable to resolve objects

Recommended action: Verify if the unresolved object is present in the database. If it isn't, check the object name

or add the object. If the object is present, transform the code manually.

Issue code: 9997 | Number of occurrences: 13 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 47:941
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 50:1088
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 51:1110
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1150
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1178
+8 more

Issue 830: MySQL does not support LIMIT with IN/ALL/ANY/SOME subquery

Recommended action: Perform a manual conversion.

Issue code: 830 | Number of occurrences: 1 | Estimated complexity: Medium

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 36:1336

Issue 692: MySQL doesn't support cursor variables

Recommended action: Perform a manual conversion.

Issue code: 692 | Number of occurrences: 34 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 8:154
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 9:184
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 22:528
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 24:565
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 43:1311
+29 more

Issue 753: MySQL doesn't support the ROUND function with the [function] argument

Recommended action: Create a user-defined function.

Issue code: 753 | Number of occurrences: 1 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 77:2044

Issue 811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 811 | Number of occurrences: 7 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 29:511
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 25:469
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 24:403
Databases.dms_sample.Schemas.dbo.Procedures.sp_helpdiagramdefinition: Line 24:410
Databases.dms_sample.Schemas.dbo.Procedures.sp_renamediagram: Line 27:525
+2 more

Issue 9996: Internal Converter error occurred

Database migration assessment report

Recommended action: Please submit report to developers.

Issue code: 9996 | Number of occurrences: 12 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 28:473
Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 33:641
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 24:431
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 27:541
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 23:365
+7 more

Database trigger Changes

Not all database 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: 1 | Estimated complexity: Complex

Databases.dms_sample.Database triggers.rds_deny_backups_trigger

Detailed recommendations for Amazon Aurora (MySQL compatible) migrations

If you migrate your Microsoft SQL Server database to Amazon Aurora (MySQL compatible), 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 811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 811 | Number of occurrences: 1 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Columns.start_date

Index Changes

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

⊕ Issue 684: MySQL doesn't support the WITH option in indexes

Recommended action: Use indexes without this option.

Issue code: 684 | Number of occurrences: 9 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Tables.seat.Indexes.seat_sport_location_idx
Databases.dms_sample.Schemas.dbo.Tables.sport_team.Indexes.sport_team_u
Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Indexes.se_start_date
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_ev_id_tkholder_id_idx
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_seat_idx
+4 more

Code object actions

Procedure Changes

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

⚠ Issue 616: MySQL doesn't support the OUTPUT clause in the statements INSERT, UPDATE, and DELETE. A manual conversion is required

Recommended action: Create a trigger for UPDATE statements for the table, and then save the changed rows in a temporary table. After the UPDATE operation, you can make use of the rows saved in the temporary table. This logic can be placed in a stored procedure.

Issue code: 616 | Number of occurrences: 1 | Estimated complexity: Simple

Documentation references: https://dev.mysql.com/doc/refman/8.0/en/update.html

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 32:1171

⚠ Issue 659: The scope table-variables and temporary tables is different. You must apply manual conversion, if you are using recursion

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

Issue code: 659 | Number of occurrences: 4 | Estimated complexity: Simple

Documentation references: https://dev.mysql.com/doc/refman/8.0/en/data-types.html

Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 13:286
Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 23:531
Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 6:146
Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 9:292

⚠ Issue 675: These keywords are reserved for future extensions to specify ascending or descending index-value storage. Currently, these keywords are parsed but ignored. Index values are always stored in ascending order

Recommended action: Use indexes without this option.

Issue code: 675 | Number of occurrences: 2 | Estimated complexity: Simple

Documentation references: http://dev.mysql.com/doc/refman/8.0/en/create-index.html

Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 18:394
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🔔 Issue 733: MySQL doesn't support the PRINT procedure

Recommended action: Try using INSERT in the log table. To do this, you must add code into ..PRINT.

Issue code: 733 | Number of occurrences: 7 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 42:1501
Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 51:1782
Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 24:689
Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 50:1603
Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 64:1954
+2 more

🔔 Issue 810: MySQL doesn't support the SET NOCOUNT

Recommended action: If need try another way to send message back to the client application.

Issue code: 810 | Number of occurrences: 5 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 12:192
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🔔 Issue 837: MySQL and MS SQL Server handle errors differently, so check result of code conversion

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

Issue code: 837 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 68:2305

🔔 Issue 9997: Unable to resolve objects

Recommended action: Verify if the unresolved object is present in the database. If it isn't, check the object name or add the object. If the object is present, transform the code manually.

Issue code: 9997 | Number of occurrences: 13 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 47:941
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 50:1088
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 51:1110
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1150
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1178
+8 more

ℹ️ Issue 830: MySQL does not support LIMIT with IN/ALL/ANY/SOME subquery

Recommended action: Perform a manual conversion.

Issue code: 830 | Number of occurrences: 1 | Estimated complexity: Medium

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 36:1336

Database migration assessment report

⊖ Issue 692: MySQL doesn't support cursor variables

Recommended action: Perform a manual conversion.

Issue code: 692 | Number of occurrences: 34 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 8:154
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 9:184
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 22:528
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 24:565
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 43:1311
+29 more

⊖ Issue 753: MySQL doesn't support the ROUND function with the [function] argument

Recommended action: Create a user-defined function.

Issue code: 753 | Number of occurrences: 1 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 77:2044

⊖ Issue 811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 811 | Number of occurrences: 7 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 29:511
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 25:469
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 24:403
Databases.dms_sample.Schemas.dbo.Procedures.sp_helpdiagramdefinition: Line 24:410
Databases.dms_sample.Schemas.dbo.Procedures.sp_renamediagram: Line 27:525
+2 more

⊖ Issue 9996: Internal Converter error occurred

Recommended action: Please submit report to developers.

Issue code: 9996 | Number of occurrences: 12 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 28:473
Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 33:641
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 24:431
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 27:541
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 23:365
+7 more

Database trigger Changes

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

⊖ Issue 9994: Unable to convert objects

Recommended action: Perform manual conversion.

Database migration assessment report

Source database: dms_sample.dbo.SQL Server - localhost:1433
Version: Microsoft SQL Server 2017 (RTM-CU13) (KB4466404) - 14.0.3048.4 (X64) Nov 30 2018 12:57:58
Copyright (C) 2017 Microsoft Corporation
Standard Edition (64-bit) on Windows Server 2019 Datacenter 10.0 <X64> (Build 17763:) (Hypervisor)
Case sensitivity: OFF

Issue code: 9994 | Number of occurrences: 1 | Estimated complexity: Complex

Databases.dms_sample.Database triggers.rds_deny_backups_trigger

Detailed recommendations for Amazon RDS for PostgreSQL migrations

If you migrate your Microsoft SQL Server database to Amazon RDS for PostgreSQL, 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 7811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 7811 | Number of occurrences: 1 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Columns.start_date: Line 1:1

Index Changes

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

⚠ Issue 7781: PostgreSQL doesn't support the PAD_INDEX option in indexes

Recommended action: Use index without this option.

Issue code: 7781 | Number of occurrences: 9 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Tables.seat.Indexes.seat_sport_location_idx
Databases.dms_sample.Schemas.dbo.Tables.sport_team.Indexes.sport_team_u
Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Indexes.se_start_date
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_ev_id_tkholder_id_idx
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_seat_idx
+4 more

Code object actions

View Changes

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

⚠ Issue 7831: For newid() function you must install extension `uuid-ossp`

Recommended action: Check the database settings.

Issue code: 7831 | Number of occurrences: 1 | Estimated complexity: Simple

Source database: dms_sample.dbo.SQL Server - localhost:1433
Version: Microsoft SQL Server 2017 (RTM-CU13) (KB4466404) - 14.0.3048.4 (X64) Nov 30 2018 12:57:58
Copyright (C) 2017 Microsoft Corporation
Standard Edition (64-bit) on Windows Server 2019 Datacenter 10.0 <X64> (Build 17763:) (Hypervisor)
Case sensitivity: OFF

Databases.dms_sample.Schemas.dbo.Views.getNewID: Line 1:31

Procedure Changes

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

🟢 **Issue 7659: The scope table-variables and temporary tables is different. You must apply manual conversion, if you are using recursion**

Recommended action: Perform a manual conversion.

Issue code: 7659 | Number of occurrences: 4 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 13:294
Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 23:539
Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 6:154
Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 9:300

🟢 **Issue 7795: PostgreSQL in operations with strings is case-sensitive. Check the result of the conversion**

Recommended action: Check the string comparison.

Issue code: 7795 | Number of occurrences: 21 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 31:685
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 32:759
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 33:832
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 34:903
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 35:972
+16 more

🟢 **Issue 7807: Unable to convert a transaction management command**

Recommended action: Perform a manual conversion.

Issue code: 7807 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 31:1147

🟢 **Issue 7831: For newid() function you must install extension `uuid-ossp`**

Recommended action: Check the database settings.

Issue code: 7831 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.generate_tickets: Line 14:411

🟢 **Issue 7922: PostgreSQL and MS SQL Server handle errors differently, so check result of code conversion**

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

Issue code: 7922 | Number of occurrences: 1 | Estimated complexity: Simple

Source database: dms_sample.dbo.SQL Server - localhost:1433
Version: Microsoft SQL Server 2017 (RTM-CU13) (KB4466404) - 14.0.3048.4 (X64) Nov 30 2018 12:57:58
Copyright (C) 2017 Microsoft Corporation
Standard Edition (64-bit) on Windows Server 2019 Datacenter 10.0 <X64> (Build 17763:) (Hypervisor)
Case sensitivity: OFF

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 68:2305

⬤ Issue 9997: Unable to resolve objects

Recommended action: Verify if the unresolved object is present in the database. If it isn't, check the object name or add the object. If the object is present, transform the code manually.

Issue code: 9997 | Number of occurrences: 13 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 47:941
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 50:1088
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 51:1110
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1150
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1178
+8 more

⬤ Issue 7811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 7811 | Number of occurrences: 6 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 29:511
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 25:469
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 24:403
Databases.dms_sample.Schemas.dbo.Procedures.sp_helpdiagramdefinition: Line 24:410
Databases.dms_sample.Schemas.dbo.Procedures.sp_renamediagram: Line 27:525
+1 more

⬤ Issue 9996: Internal Converter error occurred

Recommended action: Please submit report to developers.

Issue code: 9996 | Number of occurrences: 12 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 28:473
Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 33:641
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 24:431
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 27:541
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 23:365
+7 more

Database trigger Changes

Not all database 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: 1 | Estimated complexity: Complex

Databases.dms_sample.Database triggers.rds_deny_backups_trigger

Database migration assessment report

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.

Storage object actions

Table Changes

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

⊖ Issue 7811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 7811 | Number of occurrences: 1 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Columns.start_date: Line 1:1

Index Changes

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

⚠ Issue 7781: PostgreSQL doesn't support the PAD_INDEX option in indexes

Recommended action: Use index without this option.

Issue code: 7781 | Number of occurrences: 9 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Tables.seat.Indexes.seat_sport_location_idx
Databases.dms_sample.Schemas.dbo.Tables.sport_team.Indexes.sport_team_u
Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Indexes.se_start_date
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_ev_id_tkholder_id_idx
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_seat_idx
+4 more

Code object actions

View Changes

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

⚠ Issue 7831: For newid() function you must install extension `uuid-ossp`

Recommended action: Check the database settings.

Issue code: 7831 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Views.getNewID: Line 1:31

Procedure Changes

Database migration assessment report

Source database: dms_sample.dbo.SQL Server - localhost:1433
Version: Microsoft SQL Server 2017 (RTM-CU13) (KB4466404) - 14.0.3048.4 (X64) Nov 30 2018 12:57:58
Copyright (C) 2017 Microsoft Corporation
Standard Edition (64-bit) on Windows Server 2019 Datacenter 10.0 <X64> (Build 17763:) (Hypervisor)
Case sensitivity: OFF

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

🟢 Issue 7659: The scope table-variables and temporary tables is different. You must apply manual conversion, if you are using recursion

Recommended action: Perform a manual conversion.

Issue code: 7659 | Number of occurrences: 4 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 13:294
Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 23:539
Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 6:154
Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 9:300

🟢 Issue 7795: PostgreSQL in operations with strings is case-sensitive. Check the result of the conversion

Recommended action: Check the string comparison.

Issue code: 7795 | Number of occurrences: 21 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 31:685
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 32:759
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 33:832
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 34:903
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 35:972
+16 more

🟢 Issue 7807: Unable to convert a transaction management command

Recommended action: Perform a manual conversion.

Issue code: 7807 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 31:1147

🟢 Issue 7831: For newid() function you must install extension `uuid-ossp`

Recommended action: Check the database settings.

Issue code: 7831 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.generate_tickets: Line 14:411

🟢 Issue 7922: PostgreSQL and MS SQL Server handle errors differently, so check result of code conversion

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

Issue code: 7922 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 68:2305

Database migration assessment report

⚠ Issue 9997: Unable to resolve objects

Recommended action: Verify if the unresolved object is present in the database. If it isn't, check the object name or add the object. If the object is present, transform the code manually.

Issue code: 9997 | Number of occurrences: 13 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 47:941
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 50:1088
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 51:1110
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1150
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1178
+8 more

⊖ Issue 7811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 7811 | Number of occurrences: 6 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 29:511
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 25:469
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 24:403
Databases.dms_sample.Schemas.dbo.Procedures.sp_helpdiagramdefinition: Line 24:410
Databases.dms_sample.Schemas.dbo.Procedures.sp_renamediagram: Line 27:525
+1 more

⊖ Issue 9996: Internal Converter error occurred

Recommended action: Please submit report to developers.

Issue code: 9996 | Number of occurrences: 12 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 28:473
Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 33:641
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 24:431
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 27:541
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 23:365
+7 more

Database trigger Changes

Not all database 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: 1 | Estimated complexity: Complex

Databases.dms_sample.Database triggers.rds_deny_backups_trigger

Detailed recommendations for Amazon RDS for MariaDB migrations

If you migrate your Microsoft SQL Server database to Amazon RDS for MariaDB, we recommend the following actions.

Database migration assessment report

Storage object actions

Table Changes

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

➖ Issue 811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 811 | Number of occurrences: 1 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Columns.start_date

Index Changes

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

ⓘ Issue 684: MariaDB doesn't support the WITH option in indexes

Recommended action: Use indexes without this option.

Issue code: 684 | Number of occurrences: 9 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Tables.seat.Indexes.seat_sport_location_idx
Databases.dms_sample.Schemas.dbo.Tables.sport_team.Indexes.sport_team_u
Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Indexes.se_start_date
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_ev_id_tkholder_id_idx
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_seat_idx
+4 more

Code object actions

Procedure Changes

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

ⓘ Issue 616: MariaDB doesn't support the OUTPUT clause in the statements INSERT, UPDATE, and DELETE. A manual conversion is required

Recommended action: Create a trigger for UPDATE statements for the table, and then save the changed rows in a temporary table. After the UPDATE operation, you can make use of the rows saved in the temporary table. This logic can be placed in a stored procedure.

Issue code: 616 | Number of occurrences: 1 | Estimated complexity: Simple

Documentation references: https://mariadb.com/kb/en/library/update/

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 32:1171

Database migration assessment report

⊙ Issue 659: The scope table-variables and temporary tables is different. You must apply manual conversion, if you are using recursion

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

Issue code: 659 | Number of occurrences: 4 | Estimated complexity: Simple

Documentation references: https://mariadb.com/kb/en/library/data-types/

Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 13:286
Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 23:531
Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 6:146
Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 9:292

⊙ Issue 675: These keywords are reserved for future extensions to specify ascending or descending index-value storage. Currently, these keywords are parsed but ignored. Index values are always stored in ascending order

Recommended action: Use indexes without this option.

Issue code: 675 | Number of occurrences: 2 | Estimated complexity: Simple

Documentation references: https://mariadb.com/kb/en/library/create-index/

Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 18:394
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 19:413

⊙ Issue 733: MariaDB doesn't support the PRINT procedure

Recommended action: Try using INSERT in the log table. To do this, you must add code into ..PRINT.

Issue code: 733 | Number of occurrences: 7 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 42:1501
Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 51:1782
Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 24:689
Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 50:1603
Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 64:1954
+2 more

⊙ Issue 810: MariaDB doesn't support the SET NOCOUNT

Recommended action: If need try another way to send message back to the client application.

Issue code: 810 | Number of occurrences: 5 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 12:192
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 12:197
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 10:141
Databases.dms_sample.Schemas.dbo.Procedures.sp_helpdiagramdefinition: Line 10:155
Databases.dms_sample.Schemas.dbo.Procedures.sp_renamediagram: Line 12:177

⊙ Issue 837: MariaDB and MS SQL Server handle errors differently, so check result of code conversion

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

Source database: dms_sample.dbo.SQL Server - localhost:1433
Version: Microsoft SQL Server 2017 (RTM-CU13) (KB4466404) - 14.0.3048.4 (X64) Nov 30 2018 12:57:58
Copyright (C) 2017 Microsoft Corporation
Standard Edition (64-bit) on Windows Server 2019 Datacenter 10.0 <X64> (Build 17763:) (Hypervisor)
Case sensitivity: OFF

Issue code: 837 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 68:2305

🟢 Issue 9997: Unable to resolve objects

Recommended action: Verify if the unresolved object is present in the database. If it isn't, check the object name or add the object. If the object is present, transform the code manually.

Issue code: 9997 | Number of occurrences: 13 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 47:941
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 50:1088
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 51:1110
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1150
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1178
+8 more

🔵 Issue 830: MariaDB does not support LIMIT with IN/ALL/ANY/SOME subquery

Recommended action: Perform a manual conversion.

Issue code: 830 | Number of occurrences: 1 | Estimated complexity: Medium

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 36:1336

🔵 Issue 692: MariaDB doesn't support cursor variables

Recommended action: Perform a manual conversion.

Issue code: 692 | Number of occurrences: 34 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 8:154
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 9:184
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 22:528
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 24:565
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 43:1311
+29 more

🔵 Issue 753: MariaDB doesn't support the ROUND function with the [function] argument

Recommended action: Create a user-defined function.

Issue code: 753 | Number of occurrences: 1 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 77:2044

🔵 Issue 811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 811 | Number of occurrences: 8 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.generate_tickets: Line 14:402
Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 29:511

Source database: dms_sample.dbo.SQL Server - localhost:1433
Version: Microsoft SQL Server 2017 (RTM-CU13) (KB4466404) - 14.0.3048.4 (X64) Nov 30 2018 12:57:58
Copyright (C) 2017 Microsoft Corporation
Standard Edition (64-bit) on Windows Server 2019 Datacenter 10.0 <X64> (Build 17763:) (Hypervisor)
Case sensitivity: OFF

Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 25:469
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 24:403
Databases.dms_sample.Schemas.dbo.Procedures.sp_helpdiagramdefinition: Line 24:410
+3 more

⊖ Issue 9996: Internal Converter error occurred

Recommended action: Please submit report to developers.

Issue code: 9996 | Number of occurrences: 12 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 28:473
Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 33:641
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 24:431
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 27:541
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 23:365
+7 more

Scalar function Changes

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

⊖ Issue 811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 811 | Number of occurrences: 1 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.SQL scalar functions.rand_int: Line 7:191

Database trigger Changes

Not all database 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: 1 | Estimated complexity: Complex

Databases.dms_sample.Database triggers.rds_deny_backups_trigger

Detailed recommendations for Amazon Redshift migrations

If you migrate your Microsoft SQL Server database to Amazon Redshift, 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.

Database migration assessment report

⊖ Issue 18008: Large Objects / Binary data types are unsupported

Recommended action: Performed autoconversion to VARCHAR type. You can add a URL to the LOB in S3 as column value.

Issue code: 18008 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Tables.sysdiagrams.Columns.definition

⊖ Issue 18010: Amazon Redshift doesn't support a virtual column

Recommended action: Performed view creation with column formula as virtual is.

Issue code: 18010 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Columns.start_date

Constraint Changes

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

⊖ Issue 18027: Amazon Redshift doesn't support CHECK CONSTRAINT

Recommended action: Perform a manual conversion.

Issue code: 18027 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Constraints.chk_sold_out

Index Changes

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

⊖ Issue 18011: Amazon Redshift doesn't support all index types

Recommended action: Clustered and Non-clustered indexes columns are good option for SORTKEY columns.

Issue code: 18011 | Number of occurrences: 9 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Tables.seat.Indexes.seat_sport_location_idx
Databases.dms_sample.Schemas.dbo.Tables.sport_team.Indexes.sport_team_u
Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Indexes.se_start_date
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_ev_id_tkholder_id_idx
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_seat_idx
+4 more

Code object actions

View Changes

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

⊖ Issue 18001: Unsupported datatypes

Source database: dms_sample.dbo.SQL Server - localhost:1433
Version: Microsoft SQL Server 2017 (RTM-CU13) (KB4466404) - 14.0.3048.4 (X64) Nov 30 2018 12:57:58
Copyright (C) 2017 Microsoft Corporation
Standard Edition (64-bit) on Windows Server 2019 Datacenter 10.0 <X64> (Build 17763:) (Hypervisor)
Case sensitivity: OFF

Recommended action: uniqueidentifier datatype will be converted into varchar datatype.

Issue code: 18001 | Number of occurrences: 1 | Estimated complexity: Simple

Documentation references: https://docs.aws.amazon.com/SchemaConversionTool/latest/userguide/agents.dw.html

Databases.dms_sample.Schemas.dbo.Views.getNewID.Columns.new_id

🛈 Issue 18066: Unable to convert schema name

Recommended action: Performed autoconversion with schema name of contained object.

Issue code: 18066 | Number of occurrences: 7 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Views.sporting_event_info: Line 10:228
Databases.dms_sample.Schemas.dbo.Views.sporting_event_info: Line 10:246
Databases.dms_sample.Schemas.dbo.Views.sporting_event_info: Line 10:260
Databases.dms_sample.Schemas.dbo.Views.sporting_event_info: Line 10:274
Databases.dms_sample.Schemas.dbo.Views.sporting_event_ticket_info: Line 17:332
+2 more

Procedure Changes

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

🛈 Issue 9997: Unable to resolve objects

Recommended action: Verify if the unresolved object is present in the database. If it isn't, check the object name or add the object. If the object is present, transform the code manually.

Issue code: 9997 | Number of occurrences: 13 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 47:941
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 50:1088
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 51:1110
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1150
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 52:1178
+8 more

🛈 Issue 18006: Datatypes converted to BIGINT

Recommended action: Performance improvement. No changes required.

Issue code: 18006 | Number of occurrences: 2 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 14:410
Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 44:1480

🛈 Issue 18008: Large Objects / Binary data types are unsupported

Recommended action: Performed autoconversion to VARCHAR type. You can add a URL to the LOB in S3 as column value.

Issue code: 18008 | Number of occurrences: 3 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram.Parameters.@definition

Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram.Parameters.@definition
Databases.dms_sample.Schemas.dbo.Procedures.sp_upgraddiagrams: Line 15:328

⊕ Issue 18066: Unable to convert schema name

Recommended action: Performed autoconversion with schema name of contained object.

Issue code: 18066 | Number of occurrences: 67 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 19:504
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 39:1131
Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 6:150
Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 106:2816
Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 122:3163
+62 more

⊕ Issue 18075: Redshift doesn't support default value for stored procedure parameter

Recommended action: Default value for the parameter is ignored.

Issue code: 18075 | Number of occurrences: 10 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity.Parameters.@max_transactions
Databases.dms_sample.Schemas.dbo.Procedures.sellTickets.Parameters.@quantity
Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram.Parameters.@owner_id
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram.Parameters.@owner_id
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram.Parameters.@owner_id
+5 more

⊕ Issue 18089: The scope table-variables and temporary tables is different. You must apply manual conversion, if you are using recursion

Recommended action: Perform a manual conversion.

Issue code: 18089 | Number of occurrences: 4 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 13:286
Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 23:531
Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 6:146
Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 9:292

⊕ Issue 18090: Amazon Redshift doesn't support the SET NOCOUNT

Recommended action: If need try another way to send message back to the client application.

Issue code: 18090 | Number of occurrences: 5 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 12:188
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 12:193
Databases.dms_sample.Schemas.dbo.Procedures.sp_dropdiagram: Line 10:137
Databases.dms_sample.Schemas.dbo.Procedures.sp_helpdiagramdefinition: Line 10:151
Databases.dms_sample.Schemas.dbo.Procedures.sp_renamediagram: Line 12:173

Database migration assessment report

Issue 18023: Redshift doesn't support OUTPUT operator within DML statements

Recommended action: Perform a manual conversion.

Issue code: 18023 | Number of occurrences: 1 | Estimated complexity: Medium

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 34:1242

Issue 18026: Redshift doesn't support any DML operation on FILESTREAM columns

Recommended action: Try to rewrite modification logic using s3 service.

Issue code: 18026 | Number of occurrences: 1 | Estimated complexity: Medium

Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 53:1220

Issue 18099: Redshift doesn't support any statements except RAISE in EXCEPTION block

Recommended action: All statements will be ignored.

Issue code: 18099 | Number of occurrences: 4 | Estimated complexity: Medium

Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 44:1598
Databases.dms_sample.Schemas.dbo.Procedures.generateTicketActivity: Line 50:1768
Databases.dms_sample.Schemas.dbo.Procedures.generateTransferActivity: Line 63:1940
Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 63:2177

Issue 18111: Redshift doesn't support an explicit transaction in stored procedure, an implicit transaction is opened at the beginning of the SP execution and after statements COMMIT, ROLLBACK and TRUNCATE

Recommended action: Statements for opening transactions are ignored.

Issue code: 18111 | Number of occurrences: 1 | Estimated complexity: Medium

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 31:1147

Issue 18052: Unable to convert functions

Recommended action: Perform a manual conversion.

Issue code: 18052 | Number of occurrences: 9 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.generateSeats: Line 77:2044
Databases.dms_sample.Schemas.dbo.Procedures.generate_tickets: Line 14:402
Databases.dms_sample.Schemas.dbo.Procedures.sp_alterdiagram: Line 29:511
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 25:469
Databases.dms_sample.Schemas.dbo.Procedures.sp_creatediagram: Line 55:1242
+4 more

Scalar function Changes

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

Issue 18040: Amazon Redshift supports only scalar user-defined functions

Source database: dms_sample.dbo.SQL Server - localhost:1433
Version: Microsoft SQL Server 2017 (RTM-CU13) (KB4466404) - 14.0.3048.4 (X64) Nov 30 2018 12:57:58
Copyright (C) 2017 Microsoft Corporation
Standard Edition (64-bit) on Windows Server 2019 Datacenter 10.0 <X64> (Build 17763:) (Hypervisor)
Case sensitivity: OFF

Recommended action: Perform a manual conversion.

Issue code: 18040 | Number of occurrences: 12 | Estimated complexity: Medium

Databases.dms_sample.Schemas.dbo.SQL scalar functions.fn_diagramobjects: Line 17:408
Databases.dms_sample.Schemas.dbo.SQL scalar functions.fn_diagramobjects: Line 19:442
Databases.dms_sample.Schemas.dbo.SQL scalar functions.fn_diagramobjects: Line 29:972
Databases.dms_sample.Schemas.dbo.SQL scalar functions.fn_diagramobjects: Line 31:1059
Databases.dms_sample.Schemas.dbo.SQL scalar functions.fn_diagramobjects: Line 33:1147
+7 more

Database trigger Changes

Not all database 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: 1 | Estimated complexity: Complex

Databases.dms_sample.Database triggers.rds_deny_backups_trigger

Detailed recommendations for Babelfish for Aurora PostgreSQL migrations

If you migrate your Microsoft SQL Server database to Babelfish for Aurora PostgreSQL, 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 2403: Possible performance issues

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

Issue code: 2403 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Columns.start_date

Index Changes

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

ⓘ Issue 2405: Statement will be ignored

Recommended action: Perform a manual conversion.

Issue code: 2405 | Number of occurrences: 9 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Tables.seat.Indexes.seat_sport_location_idx

Database migration assessment report

Source database: dms_sample.dbo.SQL Server - localhost:1433
Version: Microsoft SQL Server 2017 (RTM-CU13) (KB4466404) - 14.0.3048.4 (X64) Nov 30 2018 12:57:58
Copyright (C) 2017 Microsoft Corporation
Standard Edition (64-bit) on Windows Server 2019 Datacenter 10.0 <X64> (Build 17763:) (Hypervisor)
Case sensitivity: OFF

Databases.dms_sample.Schemas.dbo.Tables.sport_team.Indexes.sport_team_u
Databases.dms_sample.Schemas.dbo.Tables.sporting_event.Indexes.se_start_date
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_ev_id_tkholder_id_idx
Databases.dms_sample.Schemas.dbo.Tables.sporting_event_ticket.Indexes.set_seat_idx
+4 more

Code object actions

Procedure Changes

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

🛈 Issue 2402: Partially supported conversion

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

Issue code: 2402 | Number of occurrences: 1 | Estimated complexity: Simple

Databases.dms_sample.Schemas.dbo.Procedures.sellTickets: Line 16:465

⊖ Issue 2401: Unable to convert statement

Recommended action: Perform a manual conversion.

Issue code: 2401 | Number of occurrences: 67 | Estimated complexity: Complex

Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 8:170
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 9:184
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 22:528
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 24:565
Databases.dms_sample.Schemas.dbo.Procedures.LoadMLBTeams: Line 43:1311
+62 more

Database objects with conversion actions for AWS Glue

Of the total 17 database code object(s) in the source database, we identified 17 (100%) database code object(s) that can be converted to AWS Glue automatically or with minimal changes.

Figure: Conversion statistics for database code objects

Procedure (17: 17/0/0/0) — 100% — 17

- Objects automatically converted
- Objects with simple actions
- Objects with medium-complexity actions
- Objects with complex actions