Database migration assessment report

Source database: sakila.root@localhost:3306
MySQL Community Server - GPL 8.0.26

Executive summary

We completed the analysis of your MySQL source database and estimate that 96% of the database storage objects and 74% 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 and indexes. Database code objects include triggers, views, functions and procedures. Based on the source code syntax analysis, we estimate 83% (based on # lines of code) of your code can be converted to Amazon Aurora (PostgreSQL compatible) automatically. To complete the migration, we recommend 31 conversion action(s) ranging from simple tasks to medium-complexity actions to complex conversion actions.

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

Of the total 79 database storage object(s) and 19 database code object(s) in the source database, we identifed 76 (96%) database storage object(s) and 14 (74%) database code object(s) that can be converted to Amazon Aurora (PostgreSQL compatible) automatically or with minimal changes.

5 (26%) database code object(s) require 4 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

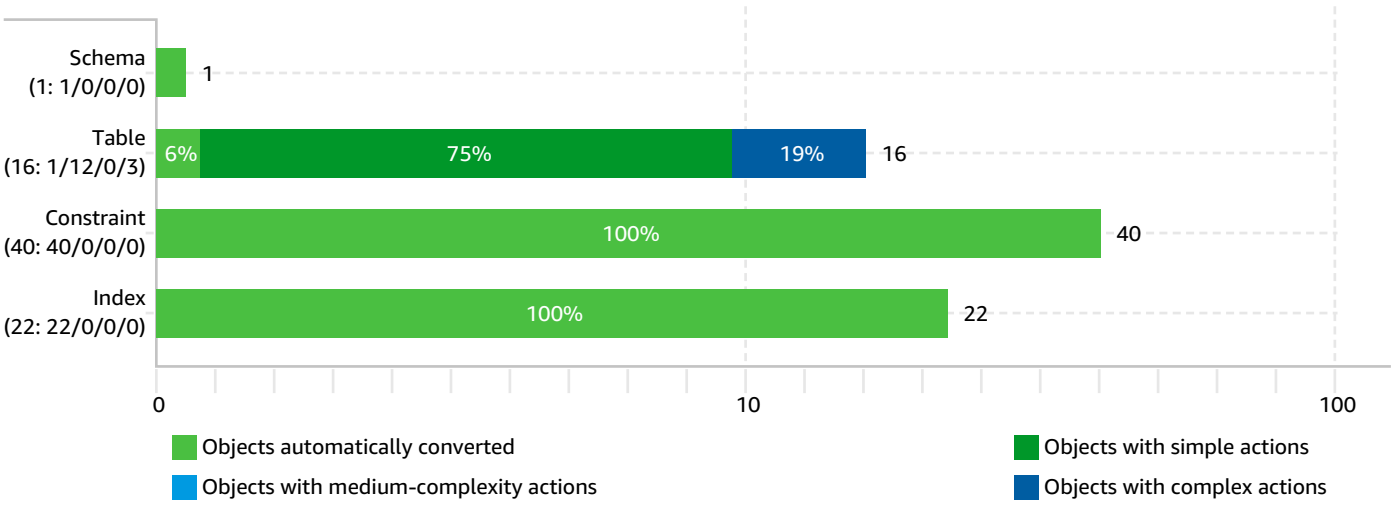

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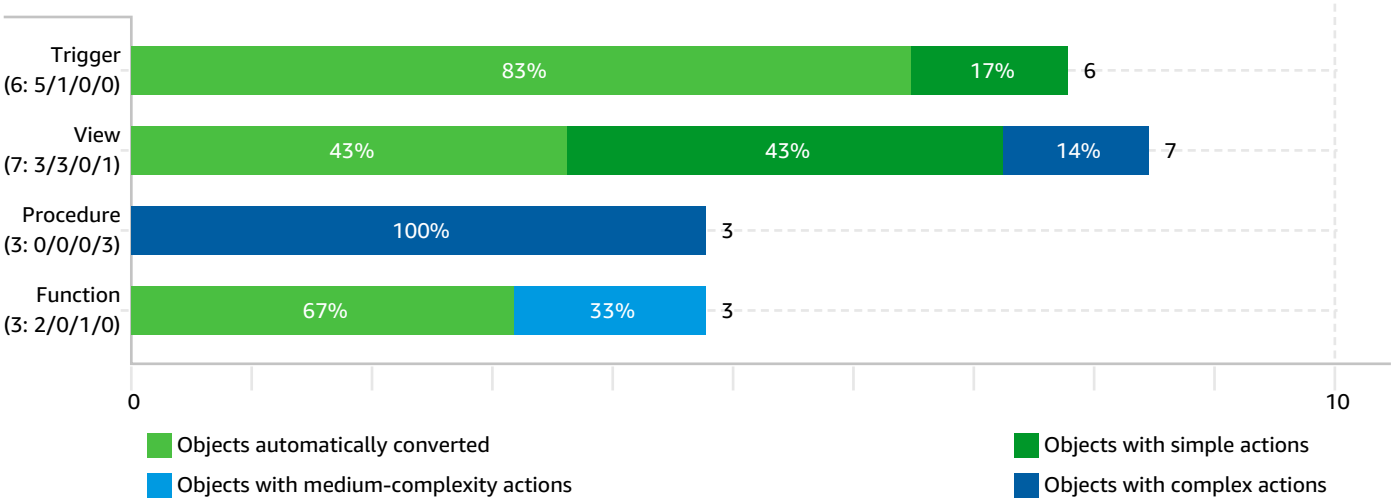
Figure: Conversion statistics for database code objects



Detailed recommendations for Amazon Aurora (PostgreSQL compatible) migrations

If you migrate your MySQL 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 8706: Unable to convert datatypes

Recommended action: To store data of this type in PostgreSQL, use a PostgreSQL-compatible type or use a composite type.

Issue code: 8706 | Number of occurrences: 3 | Estimated complexity: Simple

Schemas.sakila.Tables.address.Columns.location
Schemas.sakila.Tables.film.Columns.special_features
Schemas.sakila.Tables.staff.Columns.picture

Issue 8825: Check the default value for a Date or DateTime column

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

Issue code: 8825 | Number of occurrences: 15 | Estimated complexity: Simple

Schemas.sakila.Tables.actor.Columns.last_update
Schemas.sakila.Tables.address.Columns.last_update
Schemas.sakila.Tables.category.Columns.last_update
Schemas.sakila.Tables.city.Columns.last_update
Schemas.sakila.Tables.country.Columns.last_update

+10 more

Code object actions

Trigger Changes

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

Issue 8795: Postgres is case sensitive. Check the string comparison

Recommended action: Check the string comparison.

Issue code: 8795 | Number of occurrences: 2 | Estimated complexity: Simple

Schemas.sakila.Tables.film.Triggers.upd_film: Line 2:14
Schemas.sakila.Tables.film.Triggers.upd_film: Line 2:42

View Changes

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

Issue 8795: Postgres is case sensitive. Check the string comparison

Recommended action: Check the string comparison.

Issue code: 8795 | Number of occurrences: 4 | Estimated complexity: Simple

Schemas.sakila.Views.actor_info: Line 1:187
Schemas.sakila.Views.actor_info: Line 1:488
Schemas.sakila.Views.sales_by_store: Line 1:706
Schemas.sakila.Views.sales_by_store: Line 1:721

Issue 8851: PostgreSQL doesn't support use of the aggregate functions with other fields without GROUP BY clause

Recommended action: Perform a manual conversion.

Issue code: 8851 | Number of occurrences: 2 | Estimated complexity: Simple

Schemas.sakila.Views.film_list: Line 1:0
Schemas.sakila.Views.nicer_but_slower_film_list: Line 1:0

Issue 8811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 8811 | Number of occurrences: 1 | Estimated complexity: Complex

Schemas.sakila.Views.actor_info: Line 1:100

Procedure Changes

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

Issue 9996: Internal Converter error occurred

Recommended action: Please submit report to developers.

Issue code: 9996 | Number of occurrences: 3 | Estimated complexity: Complex

Schemas.sakila.Procedures.film_in_stock: Line 8:162
Schemas.sakila.Procedures.film_not_in_stock: Line 8:166
Schemas.sakila.Procedures.rewards_report: Line 40:1332

Function Changes

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

Issue 8844: Error codes are not the same. You need to check the result of the conversion

Recommended action: You need to check the result of the conversion.

Issue code: 8844 | Number of occurrences: 1 | Estimated complexity: Simple

Schemas.sakila.Functions.inventory_held_by_customer: Line 3:62