

# Database migration assessment report



Source database:

sakila.dbmaster@jph-maria-mariadb.cmyrfrazjwrq.us-east-2.rds.amazonaws.com:3306

Source distribution 10.4.8-MariaDB-log

## 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 PostgreSQL	37 (97%)	10 (62%)	26	1 (3%)	0	6 (38%)	6
Amazon Aurora (PostgreSQL compatible)	36 (95%)	10 (62%)	27	2 (5%)	0	6 (38%)	6

We completed the analysis of your MySQL source database and estimate that 97% of the database storage objects and 62% of database code objects can be converted automatically or with minimal changes if you select Amazon RDS for PostgreSQL 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 79% (based on # lines of code) of your code can be converted to Amazon RDS for PostgreSQL automatically. To complete the migration, we recommend 32 conversion action(s) ranging from simple tasks to medium-complexity actions to complex conversion actions.

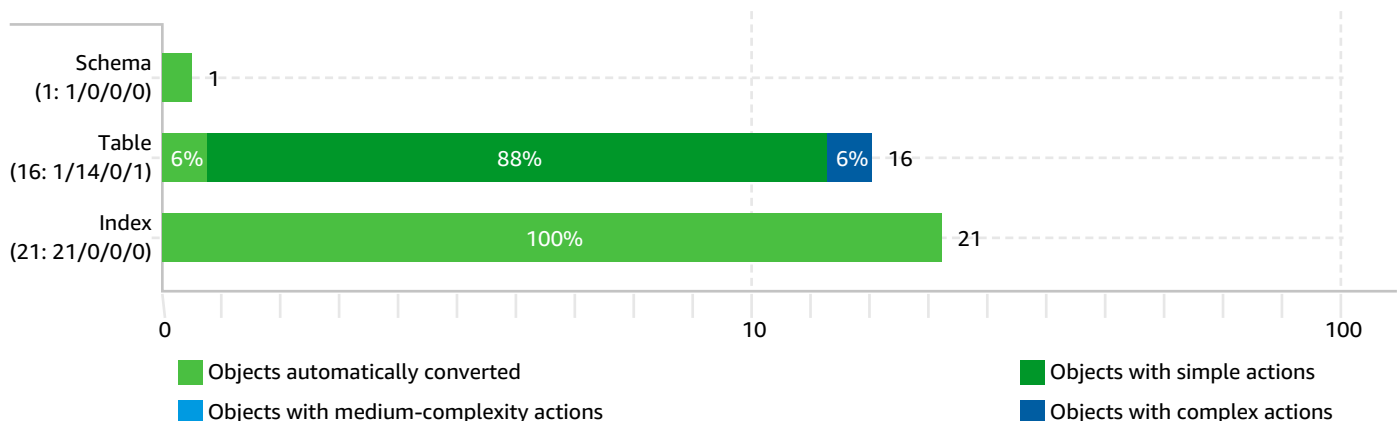
If you select Amazon Aurora (PostgreSQL compatible) as your migration target, we estimate that 95% of the database storage objects and 62% of database code objects can be converted automatically or with minimal changes. Based on the syntax analysis we estimate that 79% of your entire database schema can be converted to Amazon Aurora (PostgreSQL compatible) automatically. We recommend 33 conversion action(s) to complete the conversion work.

## Database objects with conversion actions for Amazon RDS for PostgreSQL

Of the total 38 database storage object(s) and 16 database code object(s) in the source database, we identified 37 (97%) database storage object(s) and 10 (62%) database code object(s) that can be converted to Amazon RDS for PostgreSQL automatically or with minimal changes.

6 (38%) database code object(s) require 6 complex user action(s) to complete the conversion.

Figure: Conversion statistics for database storage objects



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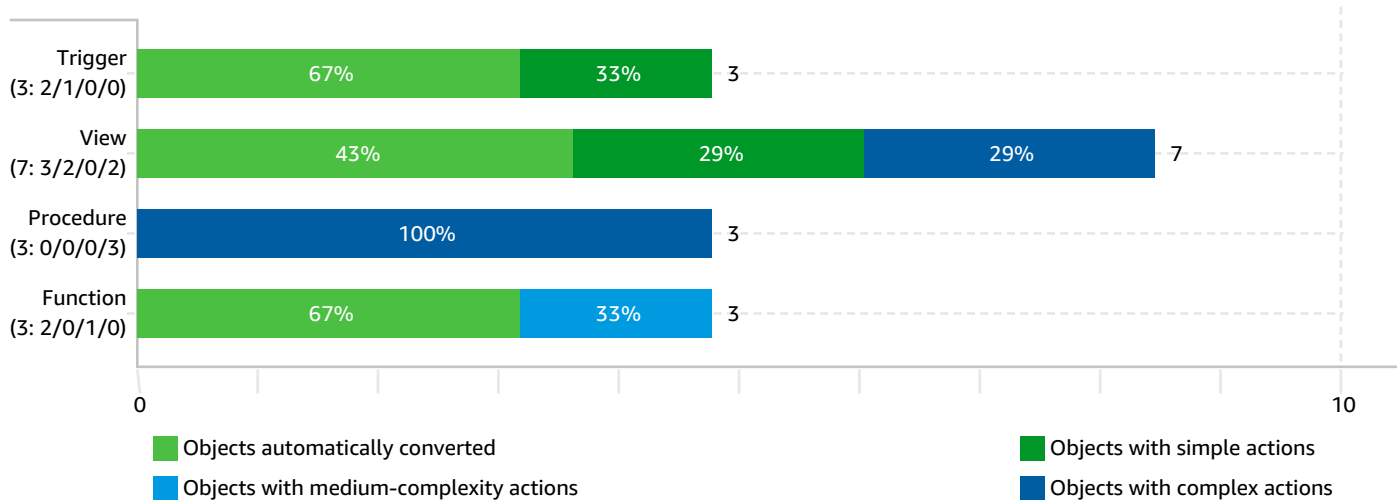


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Figure: Conversion statistics for database code objects

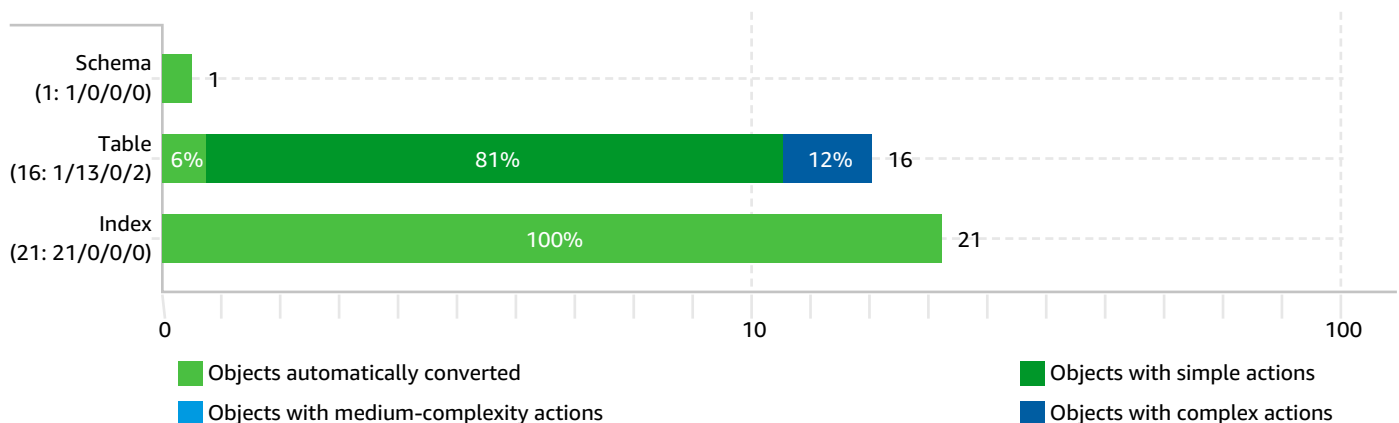


## Database objects with conversion actions for Amazon Aurora (PostgreSQL compatible)

Of the total 38 database storage object(s) and 16 database code object(s) in the source database, we identified 36 (95%) database storage object(s) and 10 (62%) database code object(s) that can be converted to Amazon Aurora (PostgreSQL compatible) automatically or with minimal changes.

6 (38%) database code object(s) require 6 complex user action(s) to complete the conversion.

Figure: Conversion statistics for database storage objects



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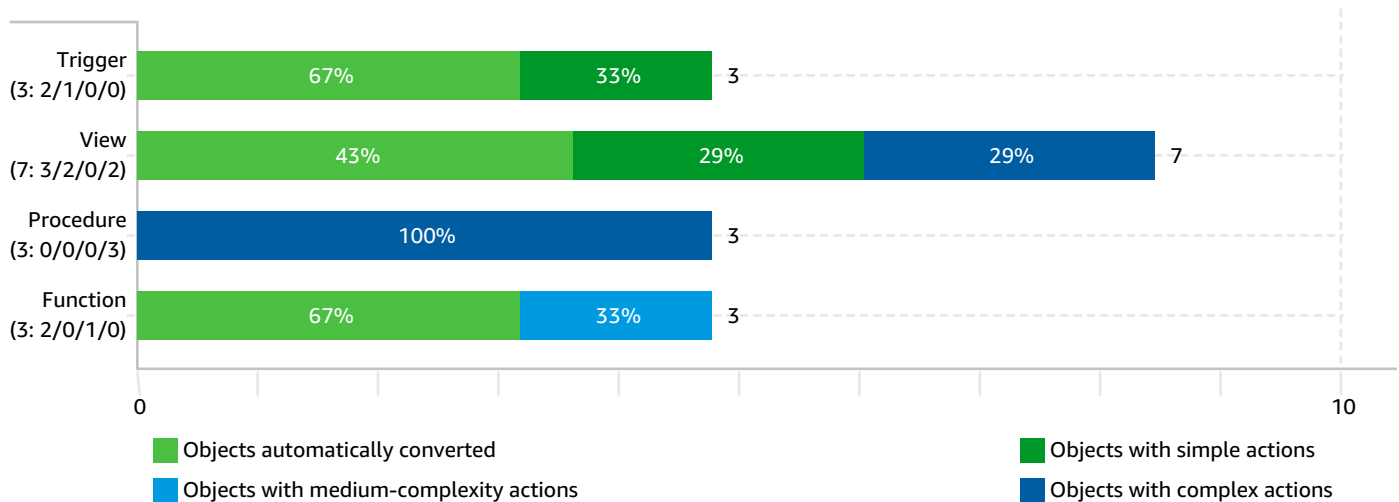


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Figure: Conversion statistics for database code objects



## Detailed recommendations for Amazon RDS for PostgreSQL migrations

If you migrate your MySQL 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 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: 1 | Estimated complexity: Simple

Schemas.sakila.Tables.film.Columns.special\_features

#### ! 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: 16 | 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  
+11 more

### Code object actions

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## 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

Schemas.sakila.Tables.film.Triggers.upd\_film

## 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

Schemas.sakila.Views.actor\_info

Schemas.sakila.Views.sales\_by\_store

Schemas.sakila.Views.sales\_by\_store

### ! 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

Schemas.sakila.Views.nicer\_but\_slower\_film\_list

### – Issue 8811: Unable to convert functions

Recommended action: Create a user-defined function.

Issue code: 8811 | Number of occurrences: 3 | Estimated complexity: Complex

Schemas.sakila.Views.actor\_info

Schemas.sakila.Views.nicer\_but\_slower\_film\_list

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## 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

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Schemas.sakila.Procedures.film\_in\_stock  
Schemas.sakila.Procedures.film\_not\_in\_stock  
Schemas.sakila.Procedures.rewards\_report

## 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

## 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: 2 | Estimated complexity: Simple

Schemas.sakila.Tables.film.Columns.special\_features  
Schemas.sakila.Tables.staff.Columns.picture

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