

# Database migration assessment report



Source database:

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Oracle Database 12c Enterprise Edition 12.1.0.2.0 (64bit Production), Enterprise edition

## Executive summary

We completed the analysis of your Oracle source database and estimate that 99% 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, collection types, sequences, synonyms, view-constraints, clusters and database links. Database code objects include triggers, views, materialized views, materialized view logs, procedures, functions, packages, package constants, package cursors, package exceptions, package variables, package functions, package procedures, package types, package collection types, scheduler-jobs, scheduler-programs and scheduler-schedules. Based on the source code syntax analysis, we estimate 99.6% (based on # lines of code) of your code can be converted to Amazon Aurora (PostgreSQL compatible) automatically. To complete the migration, we recommend 6 conversion action(s) ranging from simple tasks to medium-complexity actions to complex conversion actions.

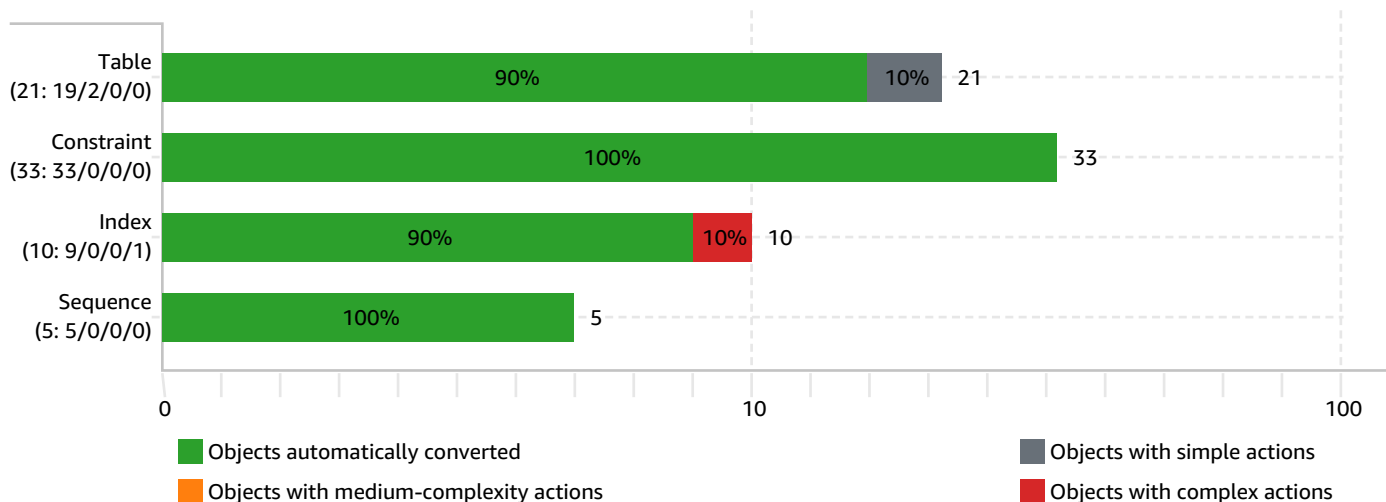
Migration guidance for database objects that could not be converted automatically can be found [here](#)

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

Of the total 69 database storage object(s) and 23 database code object(s) in the source database, we identified 68 (99%) 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.

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

Figure: Conversion statistics for database storage objects



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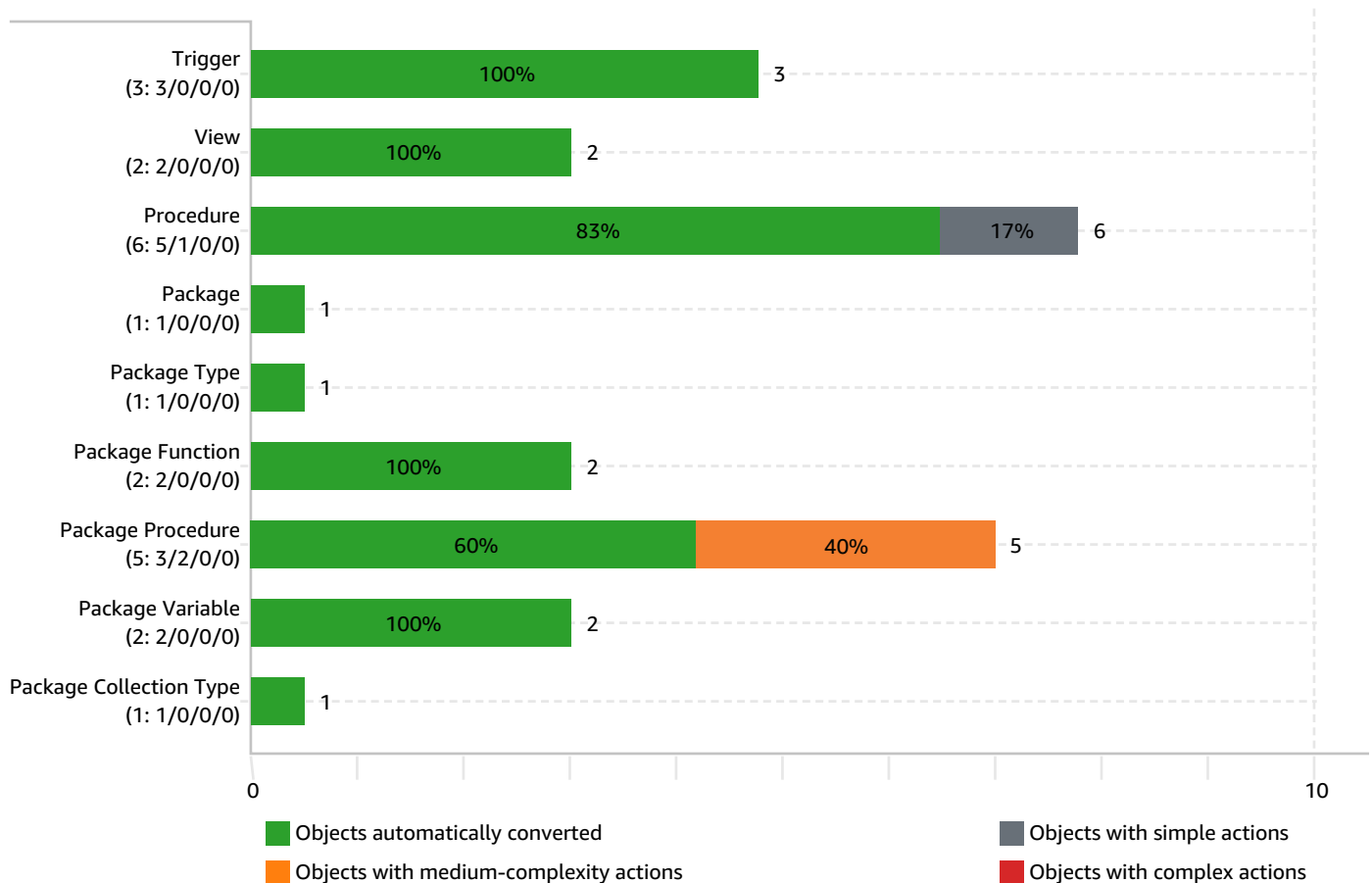


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Figure: Conversion statistics for database code objects



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

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

### Storage object actions

### Index Changes

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

#### Issue 5206: PostgreSQL doesn't support bitmap indexes

Recommended action: Revise your code and try to use simple index.

Issue code: 5206 | Number of occurrences: 1 | Estimated complexity: Complex

Documentation references: <http://www.postgresql.org/docs/9.6/static/sql-createtable.html>

Schemas.DMS\_SAMPLE.Tables.SPORTING\_EVENT.Indexes.IDX\_BM\_SPORTING\_EVENT\_TEAMS

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## Table Changes

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

### ! Issue 5659: Table contains LOB column(s)

Recommended action: Lack of PRIMARY KEY could severely decrease DMS performance. Please, create a PRIMARY KEY on the table.

Issue code: 5659 | Number of occurrences: 2 | Estimated complexity: Simple

Schemas.DMS\_SAMPLE.Tables.COUNTRIES

Schemas.DMS\_SAMPLE.Tables.TESTCLOB

## Code object actions

## Package Procedure Changes

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

### ! Issue 5584: Converted functions depends on the time zone settings

Recommended action: Review the transformed code, and set time zone manually if necessary.

Issue code: 5584 | Number of occurrences: 2 | Estimated complexity: Simple

Documentation references: <http://www.postgresql.org/docs/9.6/static/functions-datetime.html>

Schemas.DMS\_SAMPLE.Packages.TICKETMANAGEMENT.Private procedures.TRANSFERTICKET: 1466:1472

Schemas.DMS\_SAMPLE.Packages.TICKETMANAGEMENT.Public procedures.SELLTICKETS: 1778:1784

## Procedure Changes

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

### ! Issue 5103: Unable to convert hints

Recommended action: Use PostgreSQL methods for performance tuning.

Issue code: 5103 | Number of occurrences: 1 | Estimated complexity: Simple

Documentation references: <http://www.postgresql.org/docs/9.6/static/geqo.html>

Schemas.DMS\_SAMPLE.Procedures.GENERATE\_TICKETS: 291:1186



Objects automatically converted



Objects with simple actions



Objects with medium-complexity actions



Objects with complex actions