

# SNOWFLAKE SNOWCONVERT FOR GREENPLUM

SnowConvert App Version 1.16.1.0

Engine Version 30.6.1

Executed on 8/14/2025 at 6:52:28 PM

Conversion Time:  00:00:03

Conversion Speed: 1565 lines/sec

The purpose of this document is to summarize the technical considerations and code analysis in migrating SQL to Snowflake from Greenplum that either have an impact on the automated code conversion or cannot be handled by automated code conversion, as well as provide a high-level inventory and automation capability of the code that will need to be addressed. A glossary of terms used is located at the end of the document.

##### KEY TERMS

Code Unit (CU) -SnowConvert breaks down code for reporting here into code units.  Please see the documentation “[here](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/getting-started/running-snowconvert/review-results/reports/top-level-code-units-report)” for an explanation of how code units are defined.

Code Unit Parent Category (CUPC) - For summary purposes in certain sections of this document you code units are grouped together to display conversion rates, counts and other metrics.  All detail for code units can still be found and analyzed in the top level code units document. For information on how code units are grouped, please refer to the documentation [here](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/getting-started/running-snowconvert/review-results/reports/top-level-code-units-report).

##### CODE COMPLETENESS SCORE

SnowConvert results are only as good as the completeness of the provided code.  A full lineage of information is needed in order to properly convert many objects.  The Code Completeness score is an indication of how complete the provided code base is.  Anything less than a score of 100 means SnowConvert identified missing object references in the code. It is advisable to convert dependent objects together to avoid getting missing object remarks. As an example, a Procedure definition converted individually without the dependent tables or functions would result in missing dependency remarks.

|  |
| --- |
| **96.72** |

[Learn more](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/getting-started/running-snowconvert/review-results/reports/assessment-report/code-completeness-score)

For details on objects reported as missing from the submitted code, see the section on Missing Dependent Objects.  For best results, revise the submitted code base to include a complete set of code.

**EXCLUDED SCOPE SUMMARY**

SnowConvert only supports [certain file types and code units](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/getting-started/running-snowconvert/review-results/snowconvert-scopes).  The following outlines what was identified in the submitted code and has been ***excluded*** from the scope of this assessment.  These excluded items are not converted by SnowConvert and do not affect the overall conversion rates reported in this assessment.  For additional information see the section on Excluded Scope Breakdown.

| **Excluded from Assessment:**  **Files: Out of Scope 26.31579%** |  |  | **Excluded from Conversion:  Code Units:  Out of Scope 0.58%** |  |
| --- | --- | --- | --- | --- |
| Unsupported extensions: | 5 |  |  |  |
| Unexpected encoding: | 0 |  |  |  |

##### ASSESSED CONVERSION SCOPE SUMMARY

| Files | 14 | Fully Converted Code Units | 80.81% |
| --- | --- | --- | --- |
| Code Units | 516 | Lines of Code Conversion Rate | 89.08% |
| Lines of Code | 5778 | Functional Difference Messages | 422 |
| Files Not Generated | 0 | Performance Reviews | 13 |
| Parsing EWIs | 23 | Missing Dependent Objects | 19 |
| Other EWIs | 367 |  |  |

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## CODE UNITS SUMMARY

### Top Level Code Units

Code units are used to holistically count code across multiple types of files and scenarios and then grouped into categories here for summarization.  For information on how CUs are determined please see the [SnowConvert documentation here](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/getting-started/running-snowconvert/review-results/reports/top-level-code-units-report)[.](https://docs.snowconvert.com/snowconvert/general/getting-started/running-snowconvert/review-results/reports/top-level-code-units-report)

## 

| **Code Unit Parent Category** | **Code**  **Unit** | **Conversion Rate** | | **Total # of Code Units** | **Lines of Code** | **Parsing EWIs** | **Other EWIs** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Fully Converted  Code Units** | **Lines of**  **Code** |
| DATABASE | CREATE DATABASE | 0 % | 0 % | 1 | 1 | 0 | 1 |
| DML | INSERT | 71.93 % | 95.88 % | 57 | 704 | 0 | 33 |
| DML | UPDATE | 100 % | 100 % | 4 | 15 | 0 | 0 |
| DQL | SELECT | 75 % | 93.75 % | 4 | 16 | 0 | 1 |
| FUNCTION | CREATE FUNCTION | 10 % | 65.87 % | 30 | 1292 | 2 | 267 |
| FUNCTION | DROP FUNCTION | 0 % | 16.67 % | 5 | 6 | 0 | 5 |
| INDEX | CREATE INDEX | 100 % | 100 % | 198 | 274 | 0 | 0 |
| SCHEMA | CREATE SCHEMA | 0 % | 9.09 % | 10 | 11 | 0 | 10 |
| TABLE | ALTER TABLE | 0 % | 26.56 % | 20 | 64 | 0 | 20 |
| TABLE | CREATE TABLE | 93.94 % | 99.6 % | 165 | 2753 | 0 | 11 |
| VIEW | CREATE VIEW | 59.09 % | 93.83 % | 22 | 486 | 0 | 10 |

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## CONVERSION REMARKS DETAIL

### Functional Difference Messages (FDMs)

In the course of converting your legacy platform code to Snowflake, it is essential to acknowledge that Greenplum and Snowflake are distinct platforms, each with its unique set of features, functions, and capabilities.  In many cases, full functional equivalence cannot be achieved through brute force automation and involvement is required to bridge these functional differences.  SnowConvert calls out all known cases of these functional differences as Functional Difference

Messages where the code has been successfully converted to the extent possible and can only be further improved by reviewing details that lie outside of the code which may include business use cases, data ingestion processes or other architectural considerations.

##### Purpose

Customer Review: The purpose of this remark is to ensure transparency and provide visibility into areas of the conversion where human intervention may be required. It allows you, as the customer, to review and address these platform-specific differences according to your specific business requirements.

Customization Opportunities: By highlighting these differences, it enables you to assess whether any custom adaptations, workarounds, or alternative solutions may be required to achieve the desired functionality on the Snowflake platform.

Full Compatibility: It aims to ensure that your Snowflake environment, after migration, aligns with your expectations, while also complying with Snowflake's architecture and capabilities.

##### Action Required

Your review of these platform differences is essential. Depending on your specific use case and business needs, there could be substantial work to perform both outside and inside the code in order to achieve a successful migration.  You may need to collaborate with database administrators or developers to implement solutions or workarounds to achieve functionality equivalent to what was present in your legacy platform.  Each of the FDMs should be reviewed and any impacts fully understood prior to deploying any of the code and moving into testing.

Please reach out to our support team for further guidance in addressing these platform differences.

##### Summary

|  | **FDMs** |
| --- | --- |
| # of total remarks | 422 |
| # of unique remarks | 8 |

##### Detail

| **Code** | **Description** | **Instances** |
| --- | --- | --- |
| [SSC-FDM-0021](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/functional-difference/generalFDM#ssc-fdm-0021) | Create Index is not supported. | 198 |
| [SSC-FDM-GP0001](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/functional-difference/greenplumFDM#ssc-fdm-gp0001) | The performance of the CLUSTER BY may vary compared to the performance of DISTRIBUTED BY | 165 |
| [SSC-FDM-PG0016](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/functional-difference/postgresqlFDM#ssc-fdm-pg0016) | Strongly typed array transformed to ARRAY without type checking | 21 |
| [SSC-FDM-0007](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/functional-difference/generalFDM#ssc-fdm-0007) | Element with missing dependencies | 17 |
| [SSC-FDM-PG0006](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/functional-difference/postgresqlFDM#ssc-fdm-pg0006) | Set search path with multiple schemas is not supported in Snowflake. | 14 |
| [SSC-FDM-PG0009](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/functional-difference/postgresqlFDM#ssc-fdm-pg0009) | The generated numbers consistently increase in value (or decrease in value if the step size is negative) but are not necessarily contiguous. | 5 |
| [SSC-FDM-PG0017](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/functional-difference/postgresqlFDM#ssc-fdm-pg0017) | User Defined function that returns a void was transformed to a Snowflake procedure | 1 |
| [SSC-FDM-PG0018](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/functional-difference/postgresqlFDM#ssc-fdm-pg0018) | Analyze statement is commented out, which is not applicable in Snowflake. | 1 |

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### Errors, Warnings, & Issues (EWIs)

EWIs in the output code are generated by SnowConvert in places where full automation is not implemented, they require review and manual remediation. They typically produce a functional or runtime difference. The SnowConvert team uses internal metrics to classify EWIs based on how much effort, on average, it takes to correct the code.

| **LOW** | **MEDIUM** | **HIGH** | **CRITICAL** |
| --- | --- | --- | --- |
| The user may have to invest a low amount of manual effort to complete the conversion. | The user may have to invest a medium amount of manual effort to complete the conversion. | The user may have to invest a high amount of manual effort to complete the conversion. | Errors that cause exceptions in SnowConvert.  The user may have to invest a substantial amount of manual effort to complete the conversion. |

*For more information about EWIs, such as their severity and examples of each type, please visit our* [*documentation page*](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/README)

##### Parsing

#### SUMMARY

Total Unparsed Lines of Code:

|  | **CRITICAL** |
| --- | --- |
| # of occurrences | 23 |
| # of unique issues | 1 |

#### DETAIL

| **Error Code** | **Description** | **Instances** | **Severity** |
| --- | --- | --- | --- |
| [SSC-EWI-0001](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/conversion-issues/generalEWI#ssc-ewi-0001) | Error parsing the source code | 23 | Critical |

##### Other

#### SUMMARY

|  | **LOW** | **MEDIUM** | **HIGH** | **CRITICAL** |
| --- | --- | --- | --- | --- |
| # of occurrences | 40 | 298 | 26 | 0 |
| # of unique issues | 5 | 2 | 1 | 0 |

#### DETAIL

| **Error Code** | **Description** | **Instances** | **Severity** |
| --- | --- | --- | --- |
| [SSC-EWI-0068](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/conversion-issues/generalEWI#ssc-ewi-0068) | User Defined function was transformed to a Snowflake procedure | 26 | High |
| [SSC-EWI-0073](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/conversion-issues/generalEWI#ssc-ewi-0073) | Pending Functional Equivalence Review | 297 | Medium |
| [SSC-EWI-PG0001](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/conversion-issues/postgresqlEWI#ssc-ewi-pg0001) | Age is not supported on Snowflake. | 1 | Medium |
| [SSC-EWI-0035](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/conversion-issues/generalEWI#ssc-ewi-0035) | CHECK statement not supported | 15 | Low |
| [SSC-EWI-PG0003](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/conversion-issues/postgresqlEWI#ssc-ewi-pg0003) | Table inheritance is not supported in Snowflake. | 13 | Low |
| [SSC-EWI-PG0009](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/conversion-issues/postgresqlEWI#ssc-ewi-pg0009) | Comment on '{0}' is not supported by Snowflake. | 6 | Low |
| [SSC-EWI-0036](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/conversion-issues/generalEWI#ssc-ewi-0036) | Data type converted to other data type | 5 | Low |
| [SSC-EWI-PG0007](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/conversion-issues/postgresqlEWI#ssc-ewi-pg0007) | INTO clause in dynamic SQL is not supported in Snowflake. | 1 | Low |

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### Missing Dependent Objects (MDOs)

Completeness Score (0-100)      96.72

Total Missing Object References 38

Unique Missing Object References       19

### 

### Performance Reviews (PRFs)

##### Summary

|  | **Informational** |
| --- | --- |
| # of remarks | 13 |
| # of unique remarks | 1 |

##### Detail

| **Code** | **Description** | **Instances** |
| --- | --- | --- |
| [SSC-PRF-0008](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/technical-documentation/issues-and-troubleshooting/performance-review/generalPRF#ssc-prf-0008) | LOOP usage review | 13 |

*If you are using the full version of SnowConvert, you can find out the exact file and location of each error in the Issues Report in the output reports folder created by SnowConvert.*

## GLOSSARY

Visit the [glossary](https://docs.snowflake.com/en/migrations/snowconvert-docs/general/getting-started/running-snowconvert/review-results/reports/README#glossary) to understand the terminology used in multiple report documents generated by SnowConvert.