

| No. | 項目 | 状態 | 操作 | | 結果(確認コメント) | 備考 |
|-----|----------------------------|------------------------|----------|---|------------|----|
| | | | ユーザー | コマンド | | |
| 1 | 前述条件 | - | - | sqlplus 's'で以下のSQLを実行 SELECT * FROM DBA_TABLES WHERE TABLE_NAME LIKE '%TEST%' | | |
| 2 | Oracleからのテーブル情報抽出 | 認証ババー(Oracle Database) | root | sqlplus 's'で以下のSQLを実行 SELECT * FROM DBA_TABLES WHERE TABLE_NAME LIKE '%TEST%' | | |
| 3 | Oracleからのカラム情報抽出 | 認証ババー(Oracle Database) | root | sqlplus 's'で以下のSQLを実行 SELECT * FROM DBA_TAB_COLUMNS WHERE TABLE_NAME LIKE '%TEST%' | | |
| 4 | Oracleからのシーケンスオブジェクト情報抽出 | 認証ババー(Oracle Database) | root | sqlplus 's'で以下のSQLを実行 SELECT * FROM DBA_SEQUENCES WHERE SEQUENCE_OWNER = 'INFOSSDP' | | |
| 5 | Postgresからのテーブル情報抽出 | 認証ババー(PostgreSQL) | postgres | psql -c "SELECT TABLE_SCHEMA, TABLE_NAME FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_TYPE = 'BASE TABLE' AND TABLE_SCHEMA NOT IN ('information_schema', pg_catalog)" to '/home/postgres/postgres_table.csv' with csv | | |
| 6 | Postgresからのカラム情報抽出 | 認証ババー(PostgreSQL) | postgres | psql -c "SELECT TABLE_SCHEMA, TABLE_NAME, COLUMN_NAME, DATA_TYPE, CHARACTER_OCTET_LENGTH, NUMERIC_PRECISION, NUMERIC_SCALE, IS_NULLABLE, COLUMN_DEFAULT FROM INFORMATION_SCHEMA.COLUMNS WHERE TABLE_SCHEMA NOT IN ('information_schema', pg_catalog)" to '/home/postgres/postgres_columns.csv' with csv | | |
| 7 | Postgresからの制約条件情報抽出 | 認証ババー(PostgreSQL) | postgres | psql -c "SELECT TABLE_SCHEMA, TABLE_NAME, CONSTRAINT_NAME, CONSTRAINT_TYPE FROM INFORMATION_SCHEMA.TABLE_CONSTRAINTS WHERE TABLE_SCHEMA NOT IN ('information_schema', pg_catalog)" to '/home/postgres/postgres_constraint.csv' with csv | | |
| 8 | Postgresからのシーケンスオブジェクト情報抽出 | 認証ババー(PostgreSQL) | postgres | psql -c "SELECT SCHEMA_NAME, SEQUENCE_NAME, MIN_VALUE, MAX_VALUE, INCREMENT, CYCLE_OPTION FROM INFORMATION_SCHEMA.SEQUENCES WHERE SEQUENCE_SCHEMA = 'public'" to '/home/postgres/postgres_sequence.csv' with csv | | |
| 9 | テーブル情報納品用テーブル定義 | 認証ババー(PostgreSQL) | postgres | # psql -c "CREATE TABLE cmp_table_oracle (table_schema text,table_name text)" compdb # psql -c "CREATE TABLE cmp_table_postgres (table_schema text,table_name text)" compdb | | |
| 10 | カラム情報納品用テーブル作成 | 認証ババー(PostgreSQL) | postgres | # psql -c "CREATE TABLE cmp_column_oracle_wk (table_schema text,table_name text, column_name text, data_type text, character_octet_length integer, numeric_precision text, numeric_scale text)" compdb # psql -c "CREATE TABLE cmp_column_oracle (table_schema text,table_name text, column_name text, data_type text, character_octet_length integer, numeric_precision integer, numeric_scale integer, is_nullable boolean, column_default text)" compdb # psql -c "CREATE TABLE cmp_column_postgres (table_schema text,table_name text, column_name text, data_type text, character_octet_length integer, numeric_precision integer, numeric_scale integer, is_nullable boolean, column_default text)" compdb | | |
| 11 | シグニфиктокリスト比較用 | 認証ババー(PostgreSQL) | postgres | # psql -c "CREATE TABLE cmp_sequence_oracle_wk (sequence_schema text, sequence_name text, min_value numeric, max_value numeric, text_incremet text, cycle_option boolean)" compdb # psql -c "CREATE TABLE cmp_sequence_oracle (sequence_schema text, sequence_name text, min_value numeric, max_value numeric, increment numeric, cycle_option boolean)" compdb # psql -c "CREATE TABLE cmp_sequence_postgres (sequence_schema text, sequence_name text, min_value numeric, max_value numeric, increment numeric, cycle_option boolean)" compdb | | |
| 12 | データロード | 認証ババー(PostgreSQL) | postgres | # psql -c "COPY cmp_table_oracle FROM '/usr/local/compdb/oracle_tables.csv' with csv" compdb # psql -c "COPY cmp_table_postgres FROM '/usr/local/compdb/postgres_tables.csv' with csv" compdb # psql -c "COPY cmp_column_oracle_wk FROM '/usr/local/compdb/oracle_column.csv' with csv" compdb # psql -c "COPY cmp_column_postgres FROM '/usr/local/compdb/postgres_column.csv' with csv" compdb | | |
| 13 | Oracle変換情報のカタログ | 認証ババー(PostgreSQL) | postgres | # psql -c "INSERT INTO cmp_column_oracle SELECT trimboth(from table_schema, trimboth(from column_name), trimboth(from data_type), character_octet_length, numeric_precision, numeric_scale, is_nullable, column_default) FROM cmp_column_oracle_wk WHERE octet_length(trimboth(from column_name)) > 0 AND octet_length(trimboth(from data_type)) > 0 AND octet_length(trimboth(from numeric_precision)) > 0 AND octet_length(trimboth(from numeric_scale)) > 0 AND octet_length(trimboth(from is_nullable)) > 0 AND octet_length(trimboth(from column_default)) > 0" compdb # psql -c "UPDATE cmp_column_oracle SET data_type = trimboth(from data_type, trimboth(from column_name, trimboth(from data_type)), trimboth(from numeric_precision, trimboth(from column_name, trimboth(from data_type))), trimboth(from numeric_scale, trimboth(from column_name, trimboth(from data_type))), trimboth(from is_nullable, trimboth(from column_name, trimboth(from data_type))), trimboth(from column_default, trimboth(from column_name, trimboth(from data_type)))) WHERE octet_length(trimboth(from column_name)) > 0 AND octet_length(trimboth(from data_type)) > 0 AND octet_length(trimboth(from numeric_precision)) > 0 AND octet_length(trimboth(from numeric_scale)) > 0 AND octet_length(trimboth(from is_nullable)) > 0 AND octet_length(trimboth(from column_default)) > 0" compdb # psql -c "UPDATE cmp_column_oracle SET data_type = trimboth(from data_type, trimboth(from column_name, trimboth(from data_type)), trimboth(from numeric_precision, trimboth(from column_name, trimboth(from data_type))), trimboth(from numeric_scale, trimboth(from column_name, trimboth(from data_type))), trimboth(from is_nullable, trimboth(from column_name, trimboth(from data_type))), trimboth(from column_default, trimboth(from column_name, trimboth(from data_type)))) WHERE octet_length(trimboth(from column_name)) > 0 AND octet_length(trimboth(from data_type)) > 0 AND octet_length(trimboth(from numeric_precision)) > 0 AND octet_length(trimboth(from numeric_scale)) > 0 AND octet_length(trimboth(from is_nullable)) > 0 AND octet_length(trimboth(from column_default)) > 0" compdb # psql -c "UPDATE cmp_column_oracle SET data_type = trimboth(from data_type, trimboth(from column_name, trimboth(from data_type)), trimboth(from numeric_precision, trimboth(from column_name, trimboth(from data_type))), trimboth(from numeric_scale, trimboth(from column_name, trimboth(from data_type))), trimboth(from is_nullable, trimboth(from column_name, trimboth(from data_type))), trimboth(from column_default, trimboth(from column_name, trimboth(from data_type)))) WHERE octet_length(trimboth(from column_name)) > 0 AND octet_length(trimboth(from data_type)) > 0 AND octet_length(trimboth(from numeric_precision)) > 0 AND octet_length(trimboth(from numeric_scale)) > 0 AND octet_length(trimboth(from is_nullable)) > 0 AND octet_length(trimboth(from column_default)) > 0" compdb | | |

| No. | 項目 | コード | テーブル名の比較 | | |
|-----|--------------|---|--|---|----|
| | | | 確認 | 確認コメント | 結果 |
| 1 | 前提条件 | - | <pre>SQL文を実行したしていること スキーマ移行作業におけるエラーは解決し、アプグレード実行時のエラーによるスキーマ修正は行われて いることを確認</pre> | | |
| 2 | テーブル定義の有無の比較 | テーブル定義比較ツール (om_table oracle, om_table postgres) | <pre>ORACLEとPOSTGRESの各テーブル名を比較する SQL文を実行したしていること スキーマ移行作業におけるエラーは解決し、アプグレード実行時のエラーによるスキーマ修正は行われて いることを確認</pre> | 差分列がすべてOK、もしくはテーブルの追加や操作しない方がテーブルが無いであれば正常に実行が完了している。 | |

| No. | 項目 | 状態 | 差分 | | 備考 |
|-----|----------------------|----------------------|--|---|---|
| | | | 現在 | 過去(コピー元) | |
| 1 | 制御条件 | - | <pre>SQL文を実行したことによるスキーマ修正が実行していること。 文字一文字の値にだけカラムが複数ある場合は、クリーニング実行時のエラーによるスキーマ修正は行われていません。</pre> | <pre># psql -comdb # \q Type 'help' for help. comedb=# SELECT t1.sequence_name, t2.sequence_name comedb-# FROM pg_sequences t1 comedb-# WHERE t2.sequence_name IS NULL THEN 'NO' comedb-# ELSE CASE WHEN t1.next_value < t1.minimum_value OR t1.next_value > t1.maximum_value OR 1.0000E-29 AND comedb-# t2.minimum_value <= 922372036854719807 THEN 'NO'::text AND t1.next_value < t1.maximum_value comedb-# ELSE 'OK' comedb-# END; comedb-# FROM pg_sequences ORDER BY 1 FULL OUTER JOIN pg_sequence_postgres t2 comedb-# ON t1.sequence_name = t2.sequence_name AND t1.next_value = t2.next_value comedb-# ORDER BY 1,2;</pre> | 全てのシーケンシャルオブジェクトが正しく動作され、case列が'OK'であることを確認する。 最大値の制限値(maximum_value)はOracleとPostgreSQLで異なる。 |
| 2 | シーケンシャルオブジェクト移動前後の比較 | シーケンシャルオブジェクト 移動前 | シーケンシャルオブジェクト 移動後 | <pre>SELECT sequence_name, next_value FROM pg_sequences WHERE sequence_name IN ('access_log_id_seq', 'author_id_seq', 'category_id_seq', 'comment_id_seq', 'keywords_id_seq', 'message_id_seq', 'portaladmin_id_seq', 'product_id_seq')</pre> | |