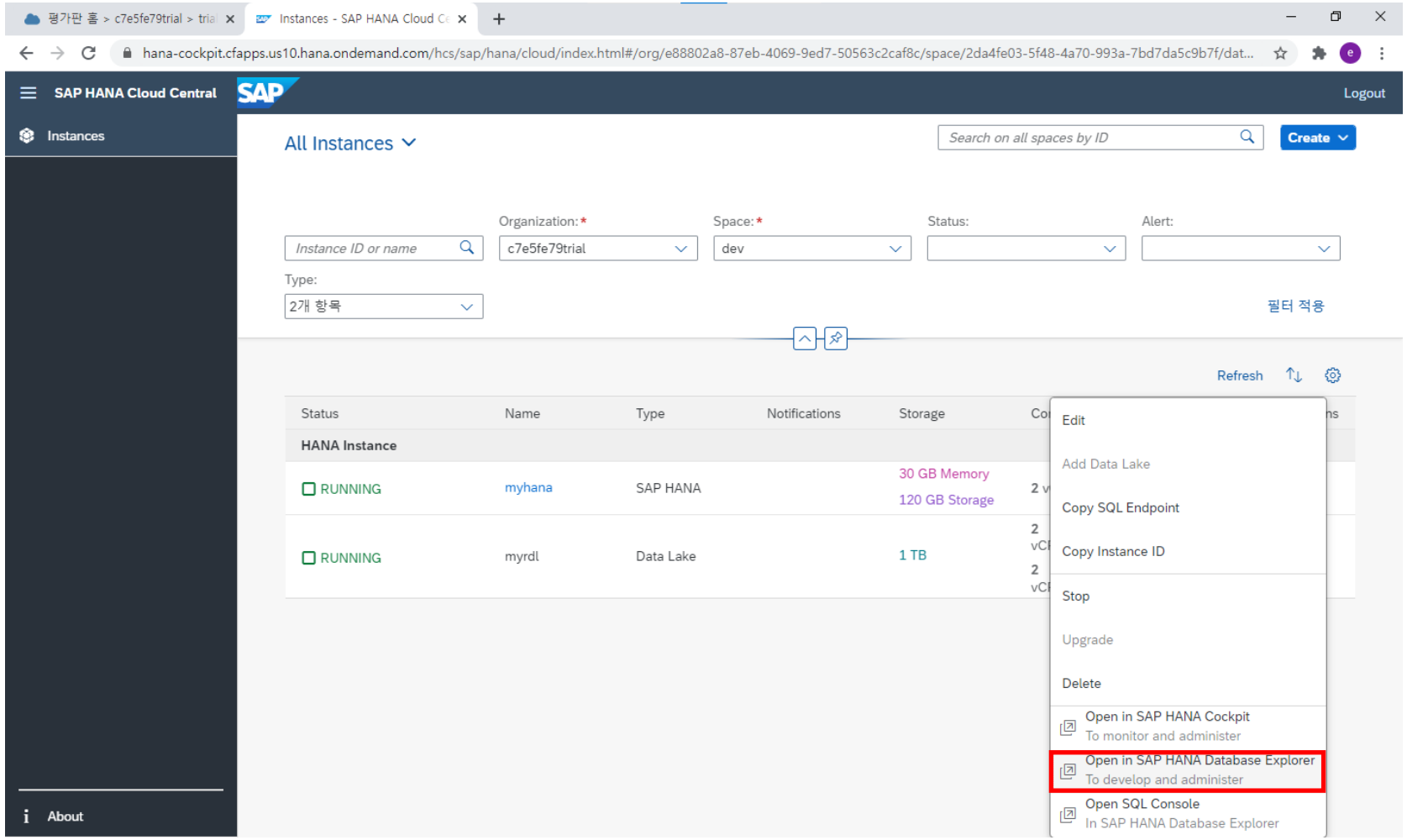
3. Table and Data Load

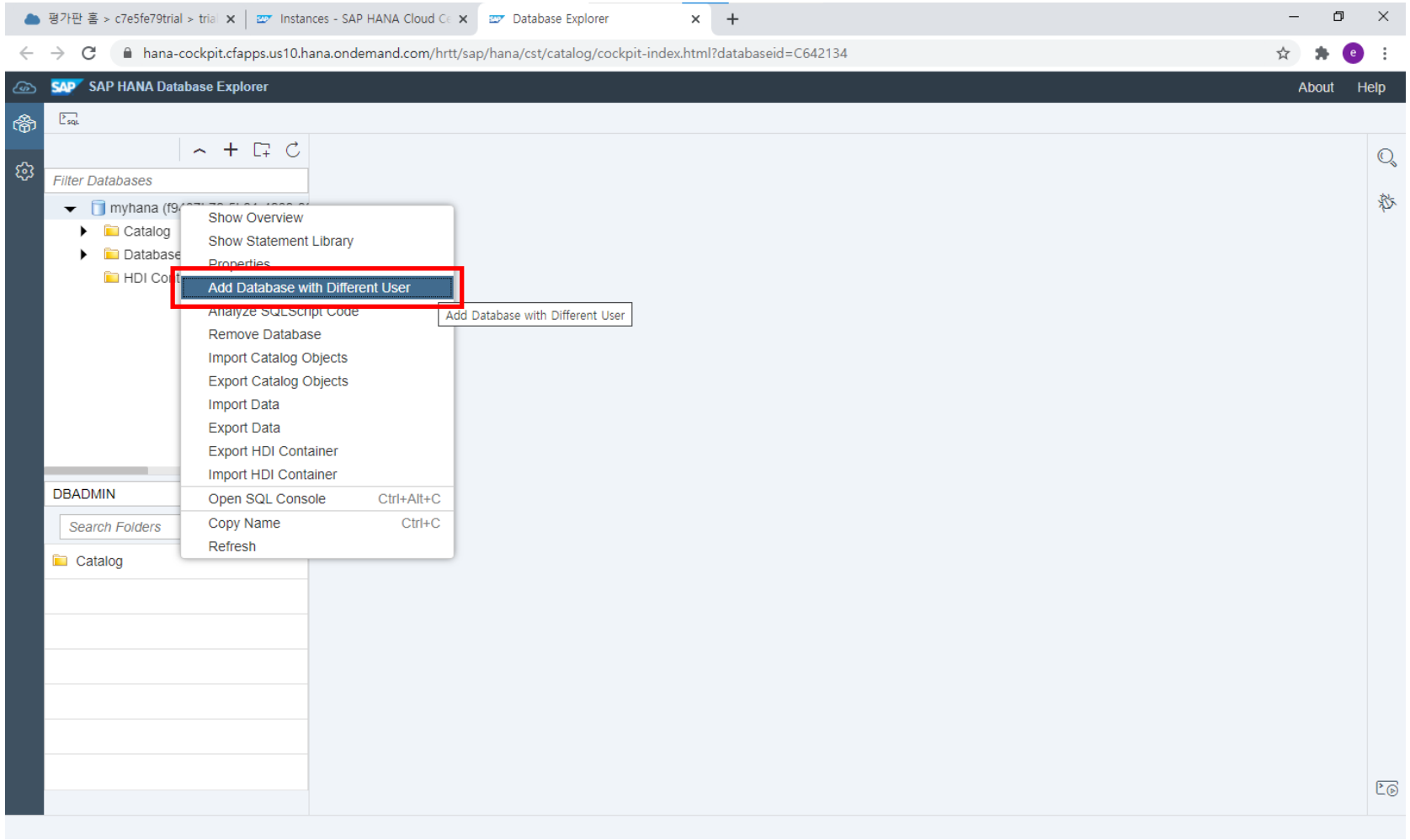
SAP HANA Cloud Trial 접속
SAP HANA Cloud 인스턴스 관리자



SAP HANA Cloud 인스턴스 관리자

- myhana 인스턴스의 “Actions” 컬럼을 클릭
- Popup 메뉴에서 “**Open in SAP HANA Database Explorer**”을 클릭

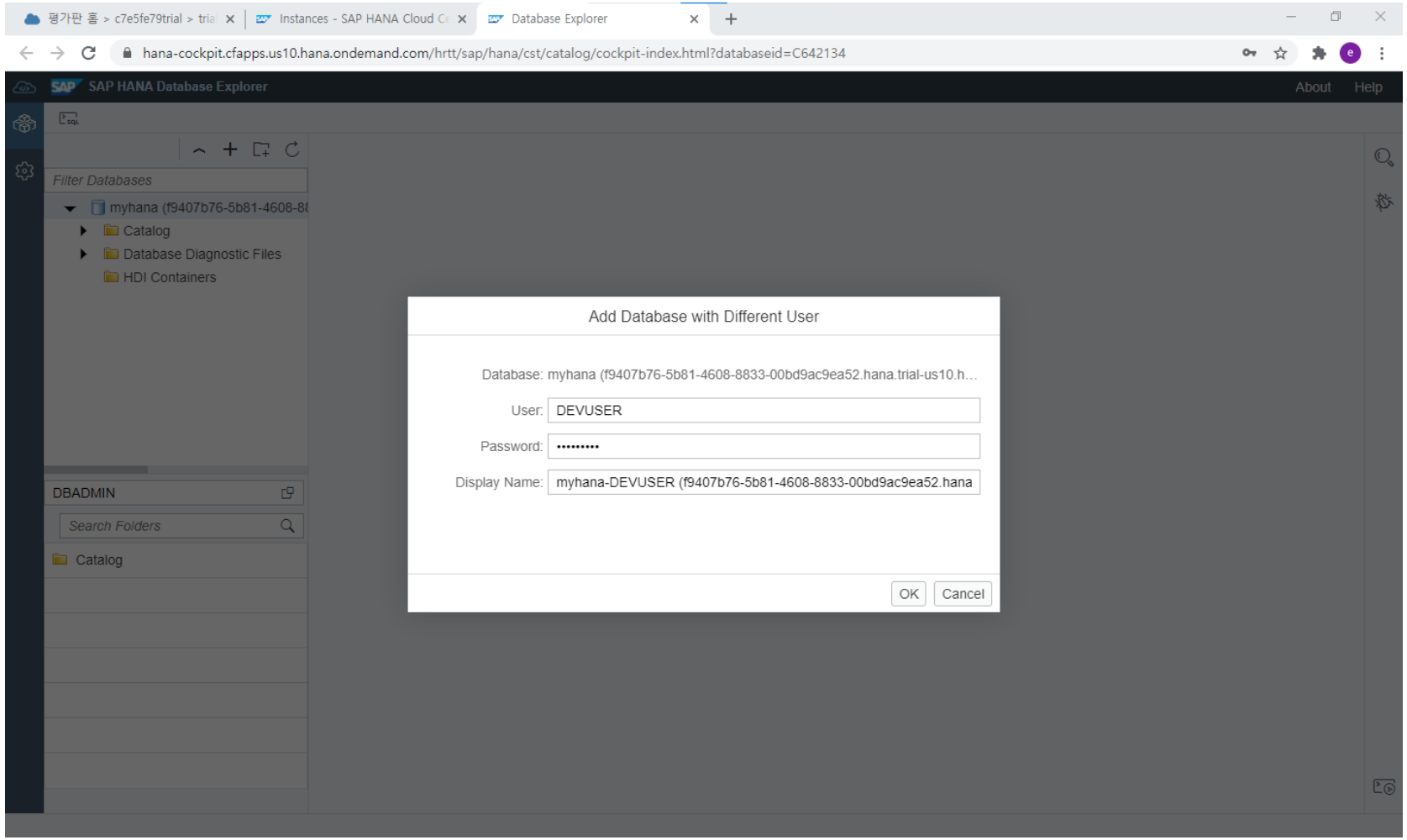
SAP HANA Database Explorer
신규 Connection 생성



SAP HANA Database Explorer

- myhana 시스템에서 우 클릭
- Popup 메뉴에서 “**Add Database with Different User**”을 클릭

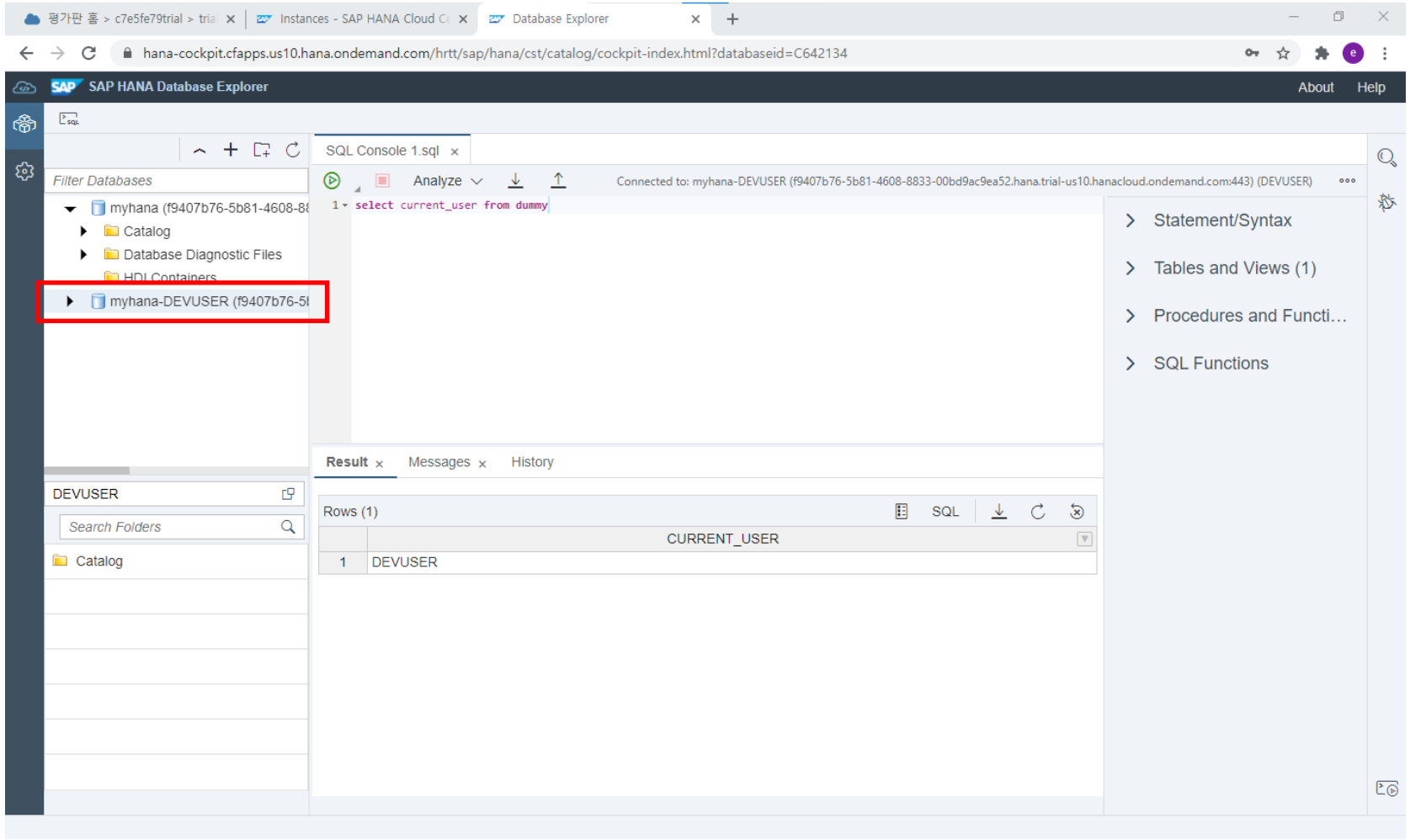
SAP HANA Database Explorer
신규 Connection 생성



SAP HANA Database Explorer

- User : **DEVUSER**
- Password : **Welcome01**
- Display Name : **myhana-DEVUSER** …
- “OK” 버튼 클릭

SAP HANA Database Explorer
신규 Connection 생성

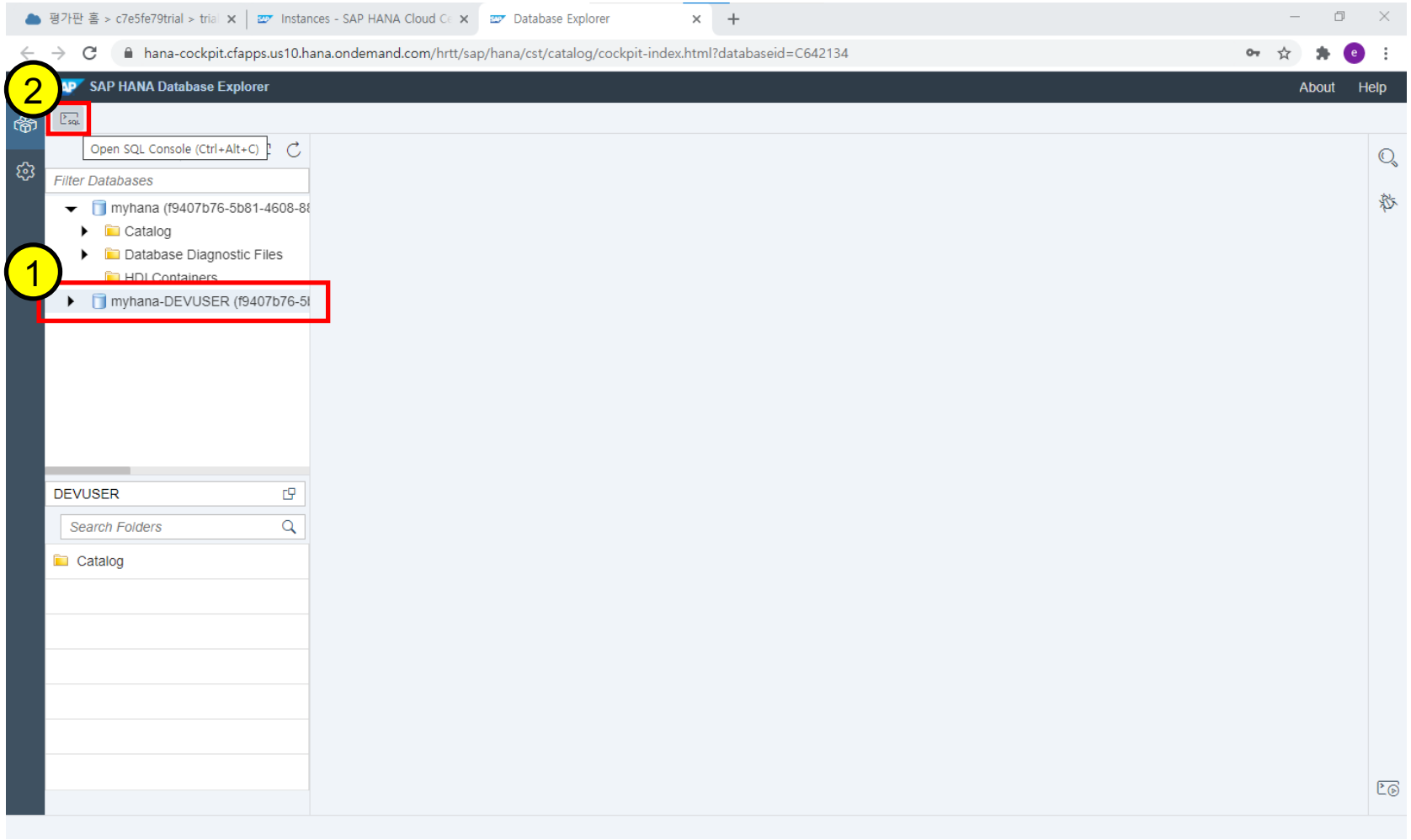


SAP HANA Database Explorer

- 신규 Connection 생성 확인

SAP HANA Database Explorer

SQL Console

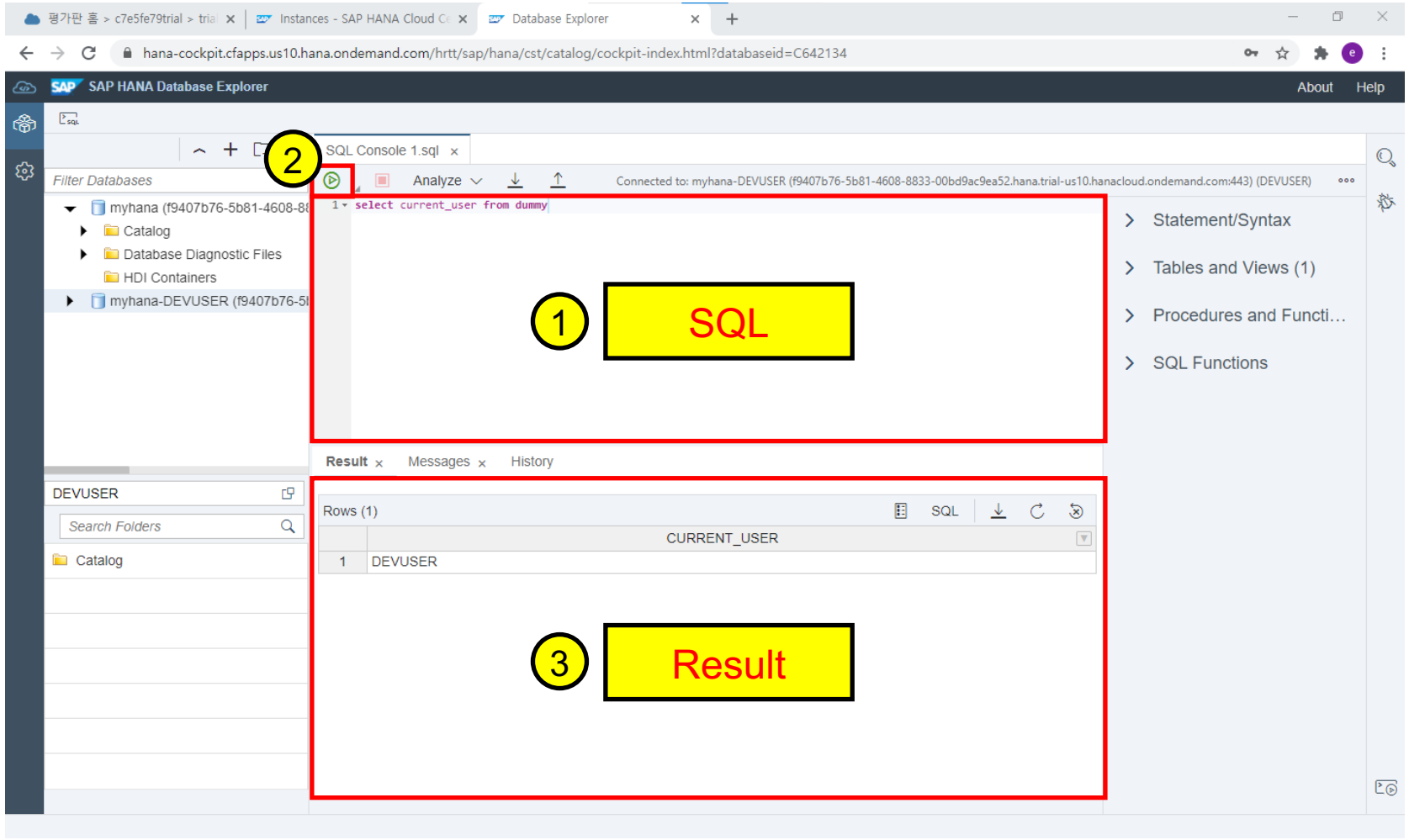


SAP HANA Database Explorer

- 신규 Connection 클릭
- “SQL” 버튼 클릭

SAP HANA Database Explorer

SQL Console



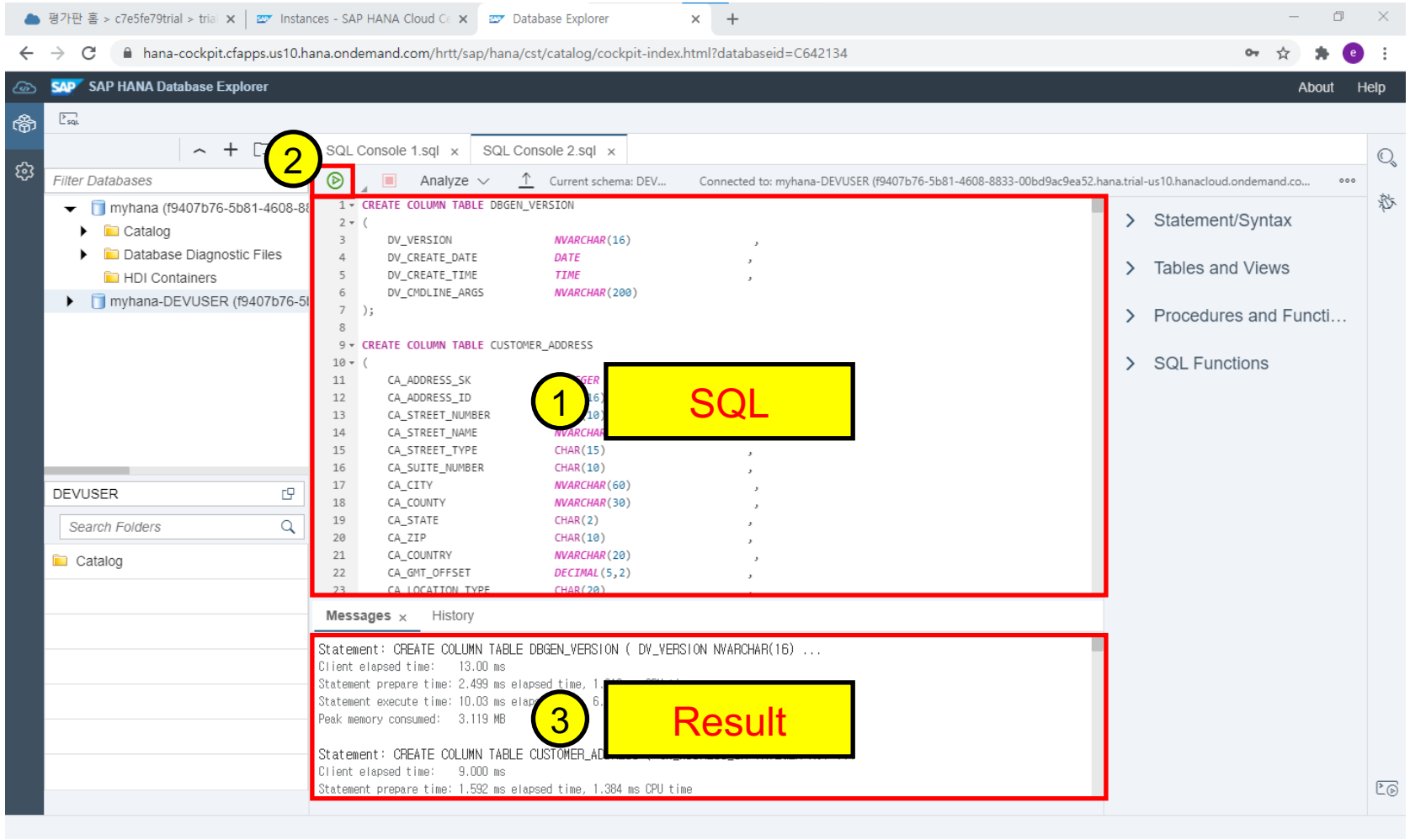
SAP HANA Database Explorer

- SQL을 입력할 수 있는 창이 오픈
- “select current_user from dummy” 입력
-  버튼 클릭하면 해당 SQL 실행
- 하단의 Result 부분에 현재 접속한 User 조회 : DEVUSER

SAP HANA Database Explorer

Table 생성

File Location :
https://github.com/euimankim/HANA_Cloud_Enablement

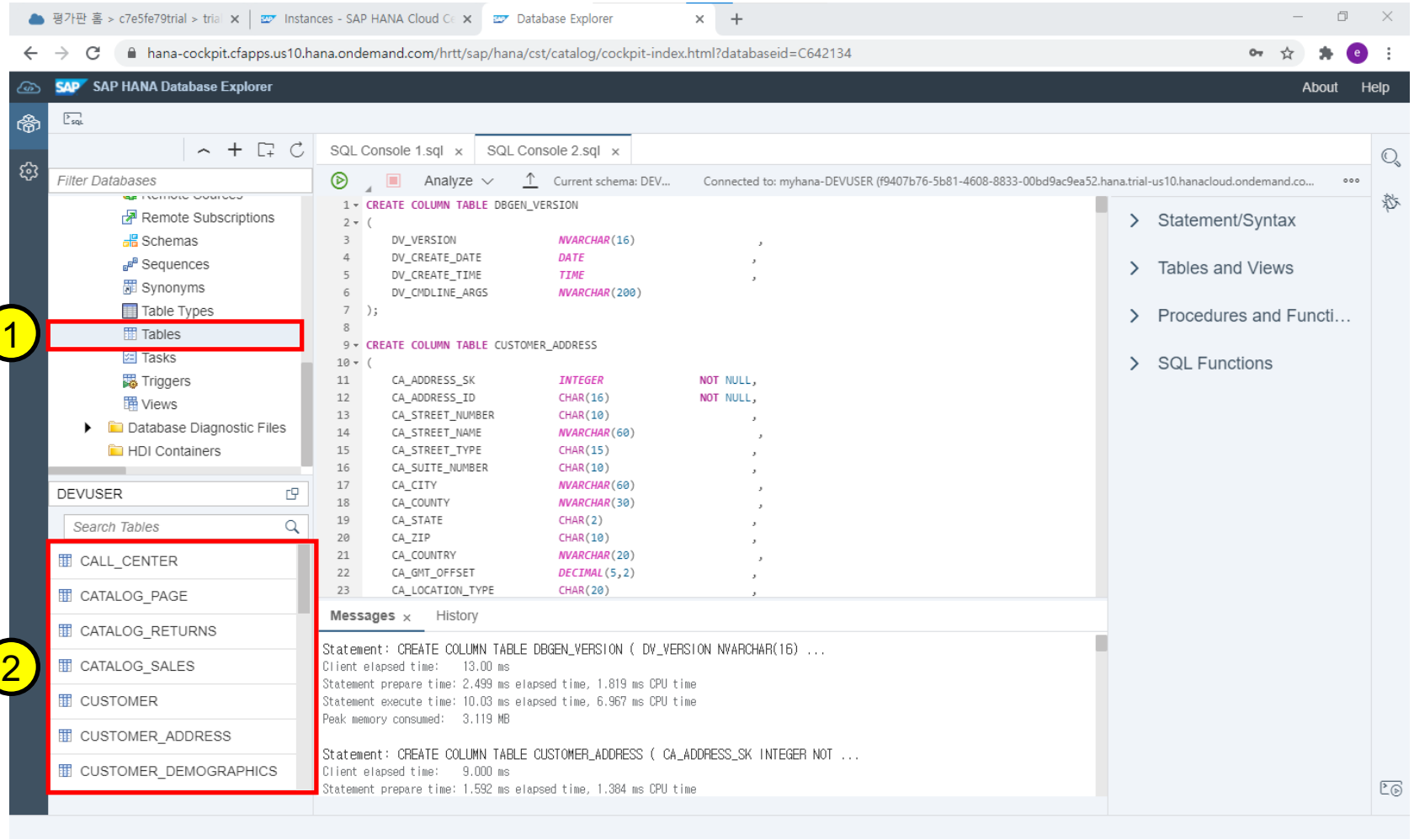


SAP HANA Database Explorer

- 새로운 SQL Console을 오픈
- create_table.sql 파일의 내용을 전체 복사 후 붙여넣기
-  버튼 클릭하면 해당 SQL 실행
- 하단의 Result 부분에 실행 결과 조회

SAP HANA Database Explorer

Table 생성

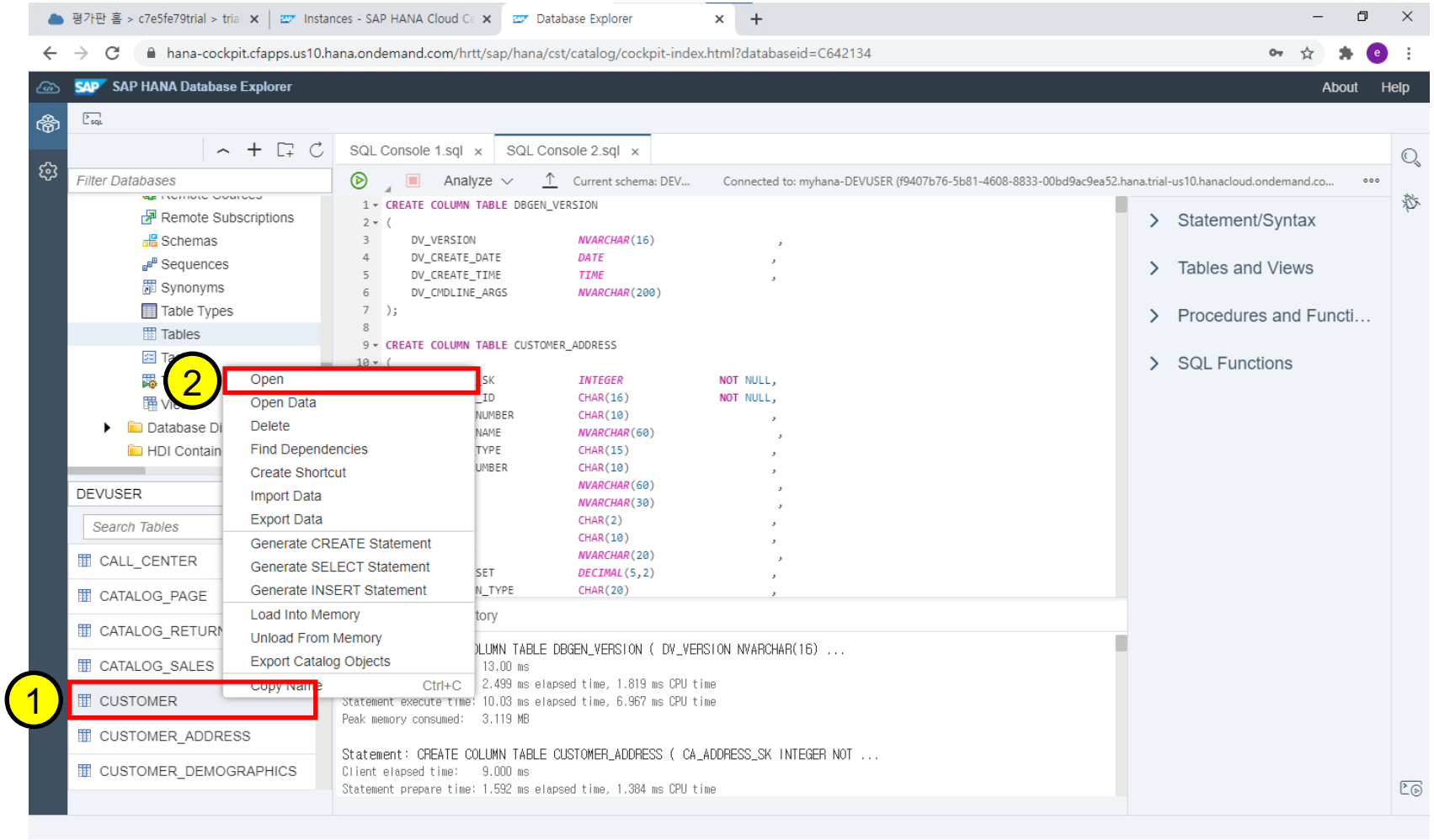


SAP HANA Database Explorer

- 좌측 메뉴에서 Catalog >> Tables 클릭
- 좌측 하단에 생성한 Table 리스트 확인

SAP HANA Database Explorer

Table 생성

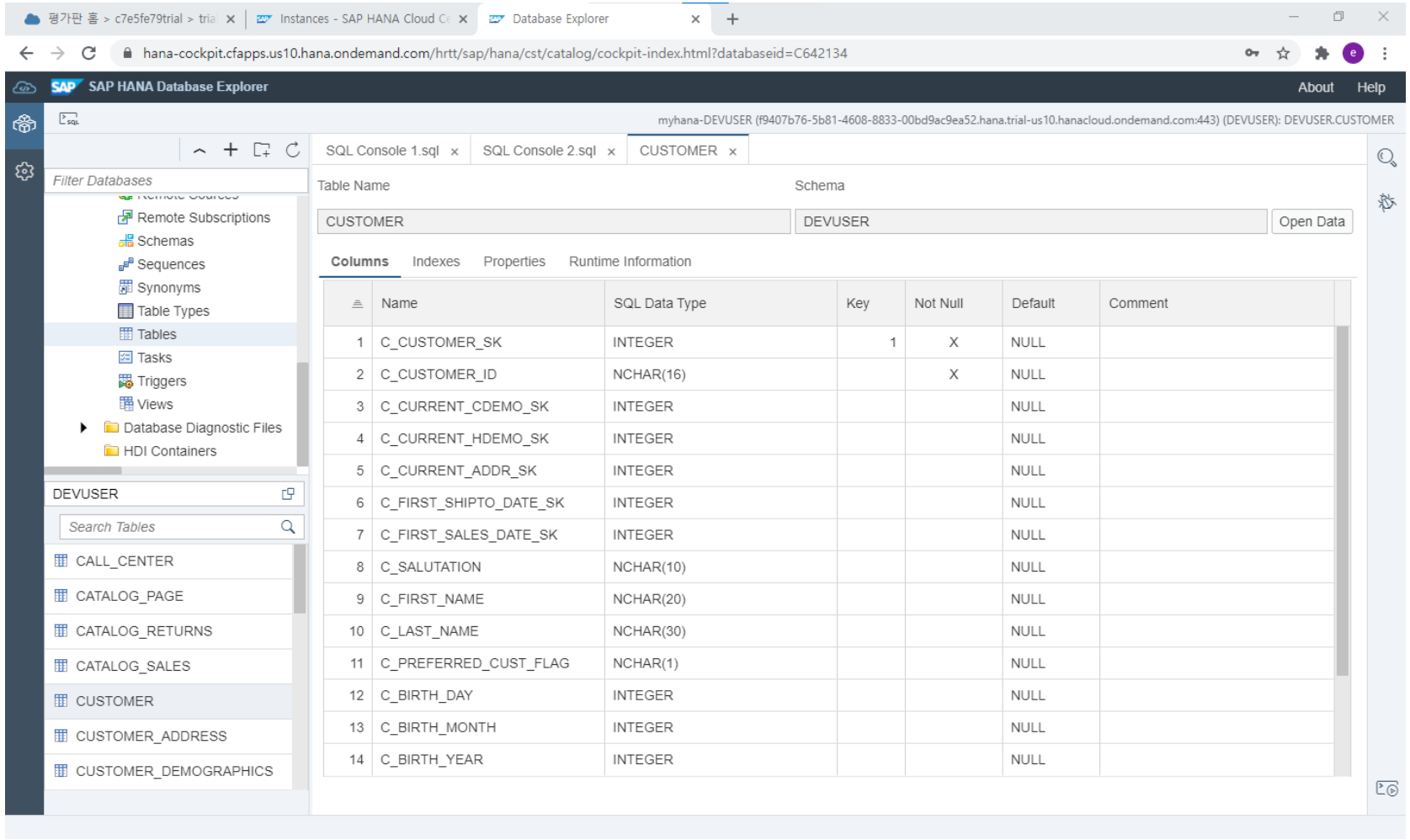


SAP HANA Database Explorer

- CUSTOMER 테이블을 클릭하거나 우클릭을 통해 Popup 메뉴에서 “Open” 클릭

SAP HANA Database Explorer

Table 생성



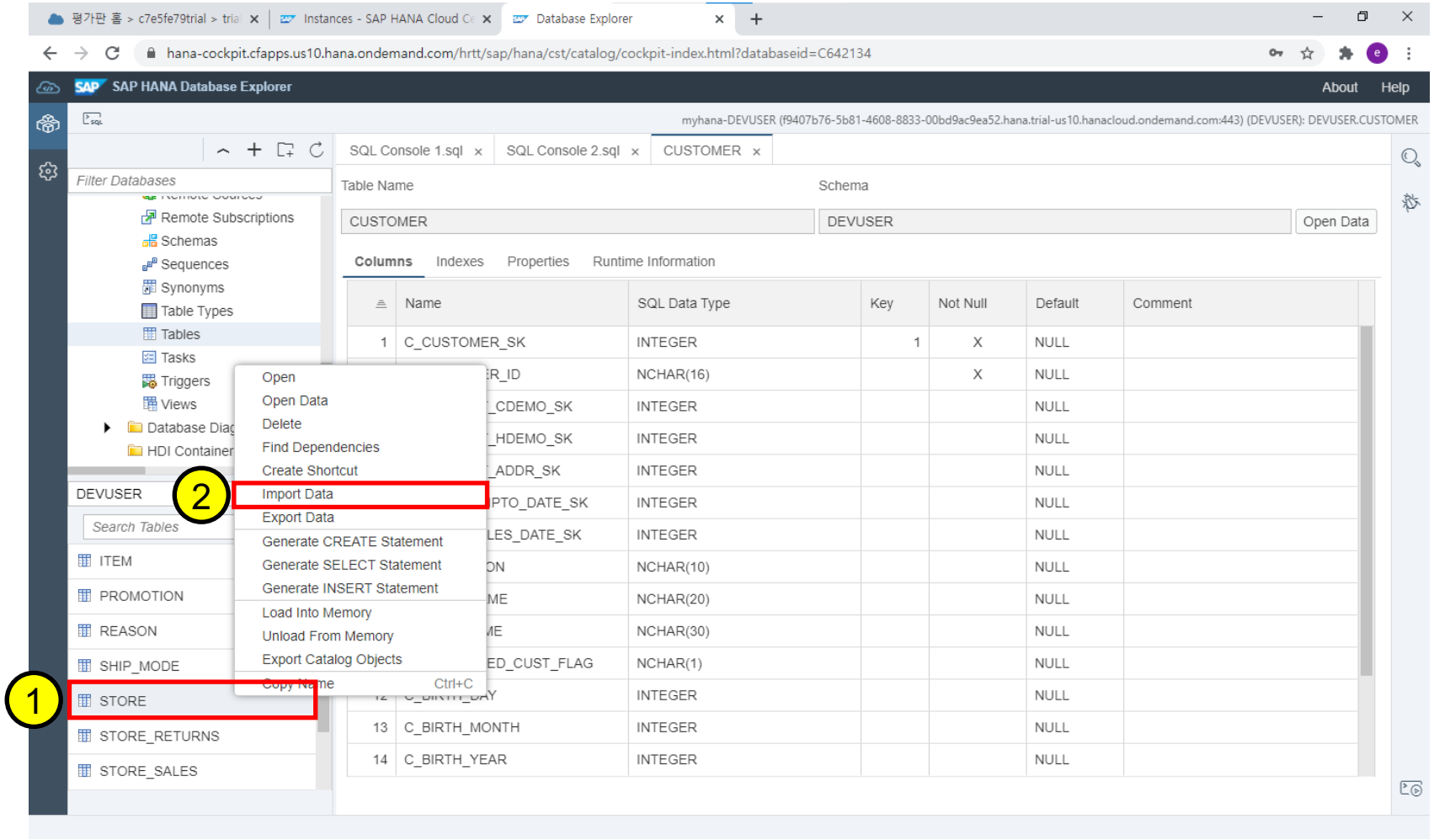
	Name	SQL Data Type	Key	Not Null	Default	Comment
1	C_CUSTOMER_SK	INTEGER	1	X	NULL	
2	C_CUSTOMER_ID	NCHAR(16)		X	NULL	
3	C_CURRENT_CDEMO_SK	INTEGER			NULL	
4	C_CURRENT_HDEMO_SK	INTEGER			NULL	
5	C_CURRENT_ADDR_SK	INTEGER			NULL	
6	C_FIRST_SHIPTO_DATE_SK	INTEGER			NULL	
7	C_FIRST_SALES_DATE_SK	INTEGER			NULL	
8	C_SALUTATION	NCHAR(10)			NULL	
9	C_FIRST_NAME	NCHAR(20)			NULL	
10	C_LAST_NAME	NCHAR(30)			NULL	
11	C_PREFERRED_CUST_FLAG	NCHAR(1)			NULL	
12	C_BIRTH_DAY	INTEGER			NULL	
13	C_BIRTH_MONTH	INTEGER			NULL	
14	C_BIRTH_YEAR	INTEGER			NULL	

SAP HANA Database Explorer

- CUSTOMER 테이블의 정의를 조회

SAP HANA Database Explorer

Local Data Load

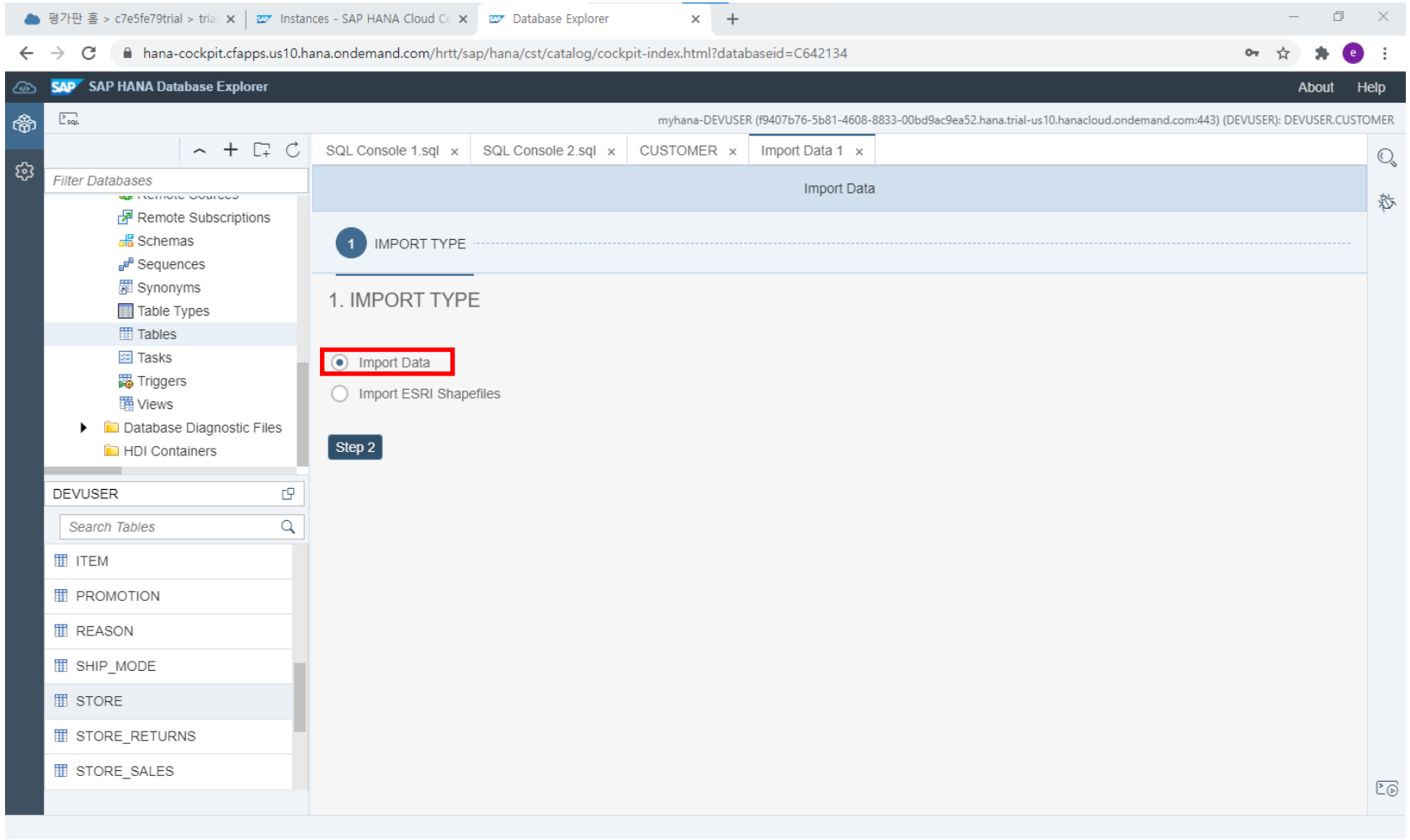


SAP HANA Database Explorer

- STORE 테이블을 우 클릭
- Popup 메뉴에서 “Import Data” 클릭

SAP HANA Database Explorer

Local Data Load



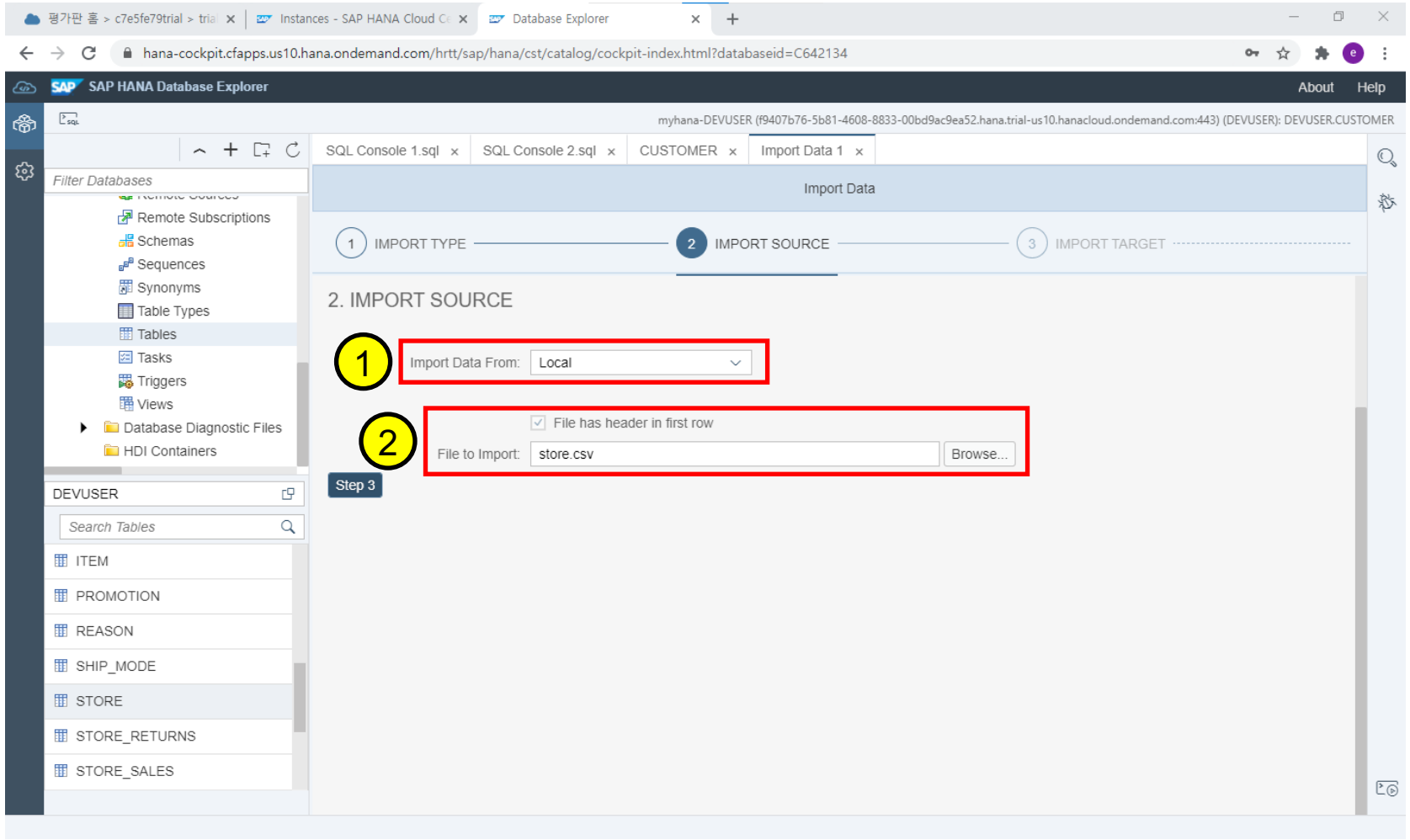
SAP HANA Database Explorer

- “Import Data” 선택”
- “Step 2” 버튼 클릭

SAP HANA Database Explorer

Local Data Load

File Location :
https://github.com/euimankim/HANA_Cloud_Enablement

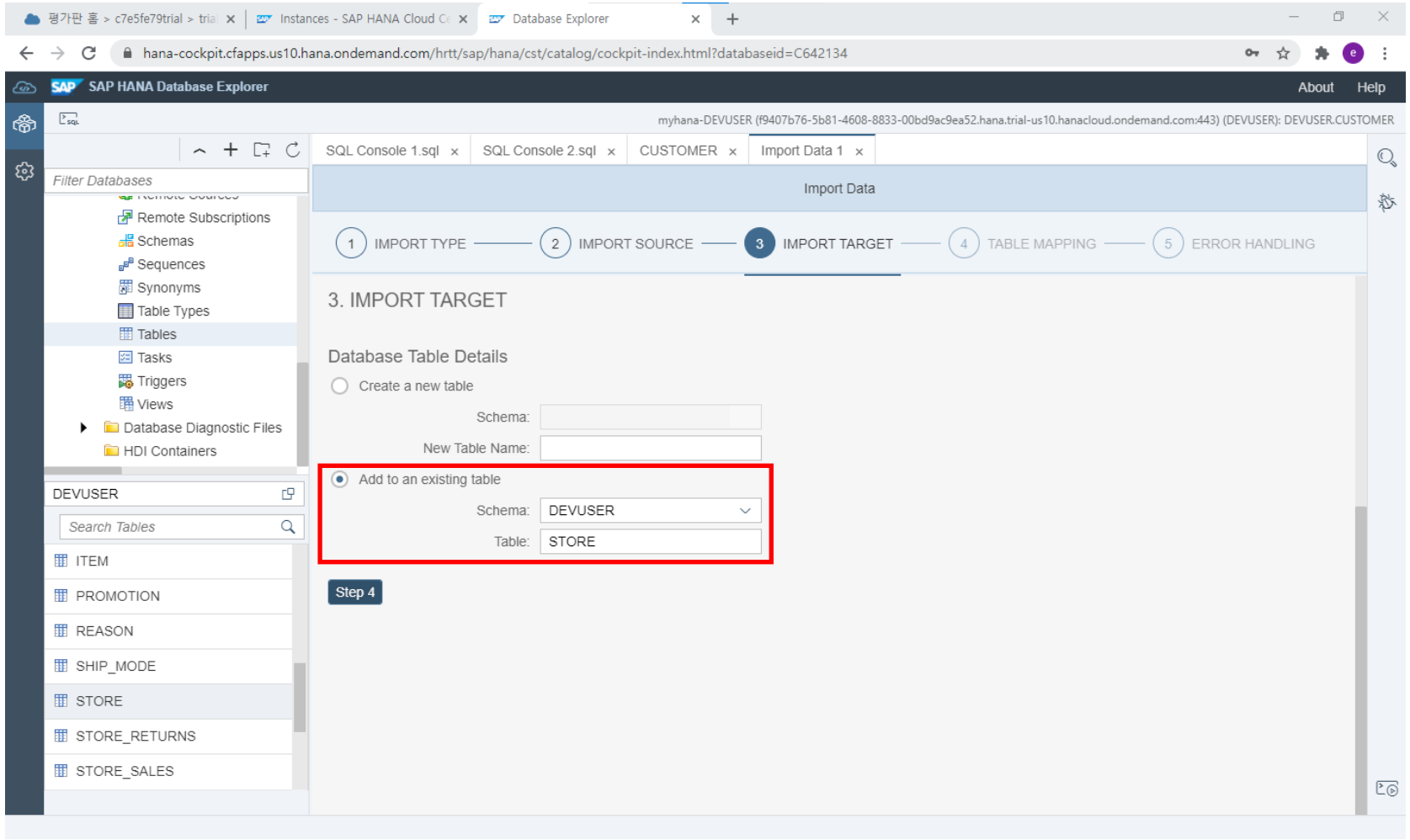


SAP HANA Database Explorer

- “Import Data From” 드롭다운박스에서 “Local” 선택
- “File has header in first row” 체크박스 선택
- “File to Import” 에서 store.csv 파일 선택
- store.csv 파일은 위 URL에서 Local PC로 미리 Download 필요
- “Step 3” 버튼 클릭

SAP HANA Database Explorer

Local Data Load

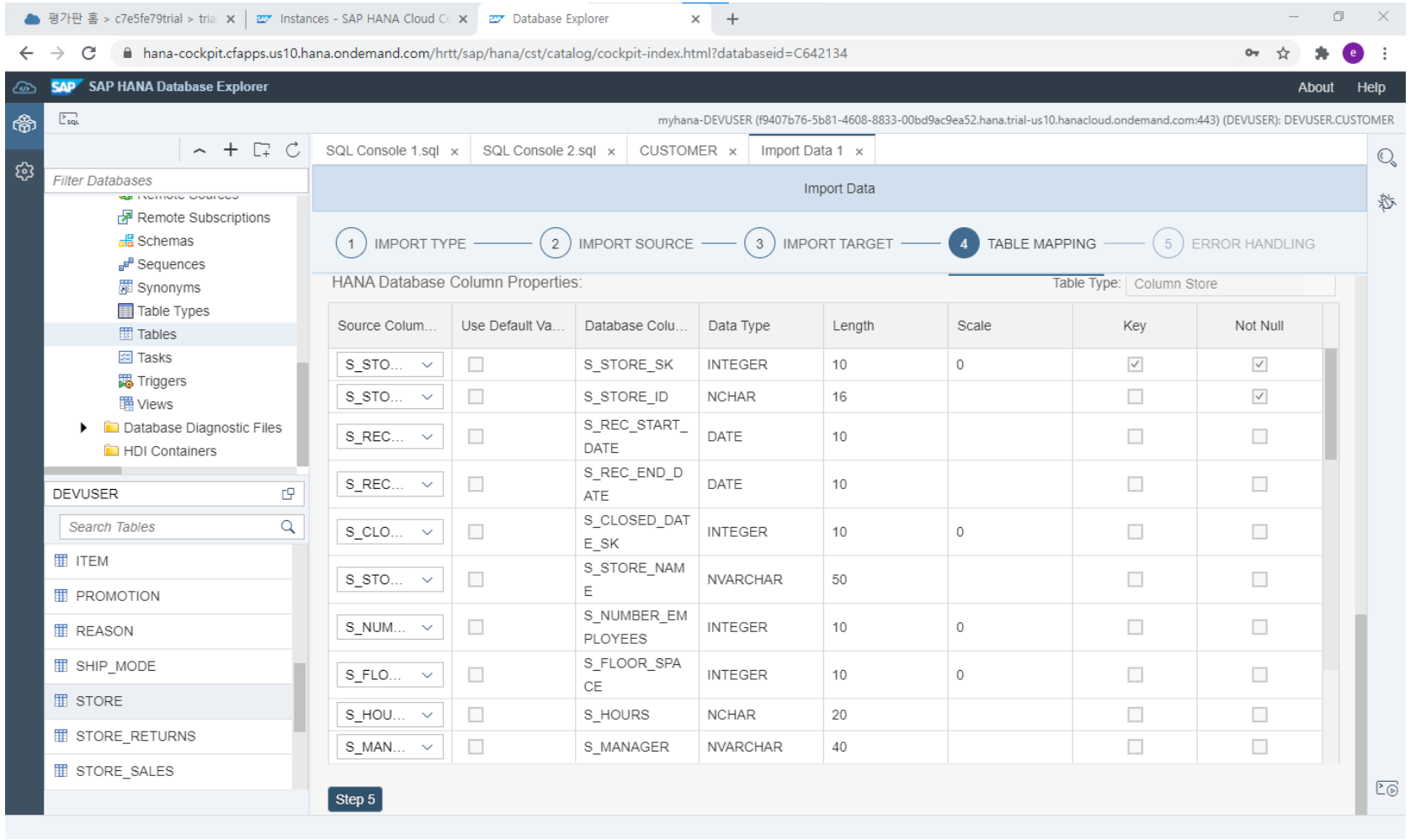


SAP HANA Database Explorer

- “Add to an existing table” 선택
- Schema : DEVUSER
- Table : STORE
- “Step 4” 버튼 클릭

SAP HANA Database Explorer

Local Data Load

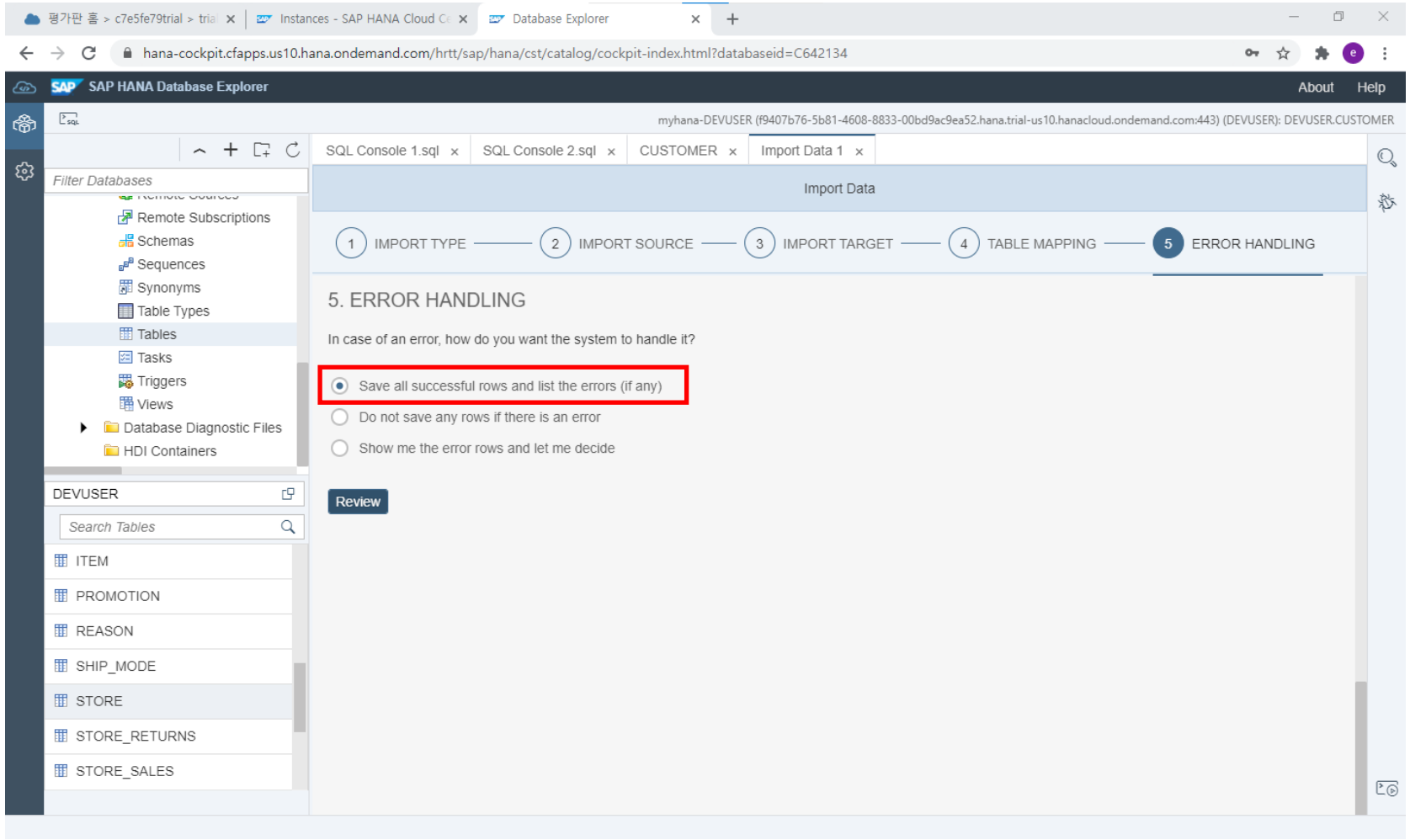


SAP HANA Database Explorer

- CSV 파일의 Header Column과 Table Column과 매핑 필요
- 단, **CSV 파일의 Header Column 이름과 Table Column 이름이 같으면 자동으로 매핑되고 이름이 다르면 수동으로 매핑**
- “Step 5” 버튼 클릭

SAP HANA Database Explorer

Local Data Load

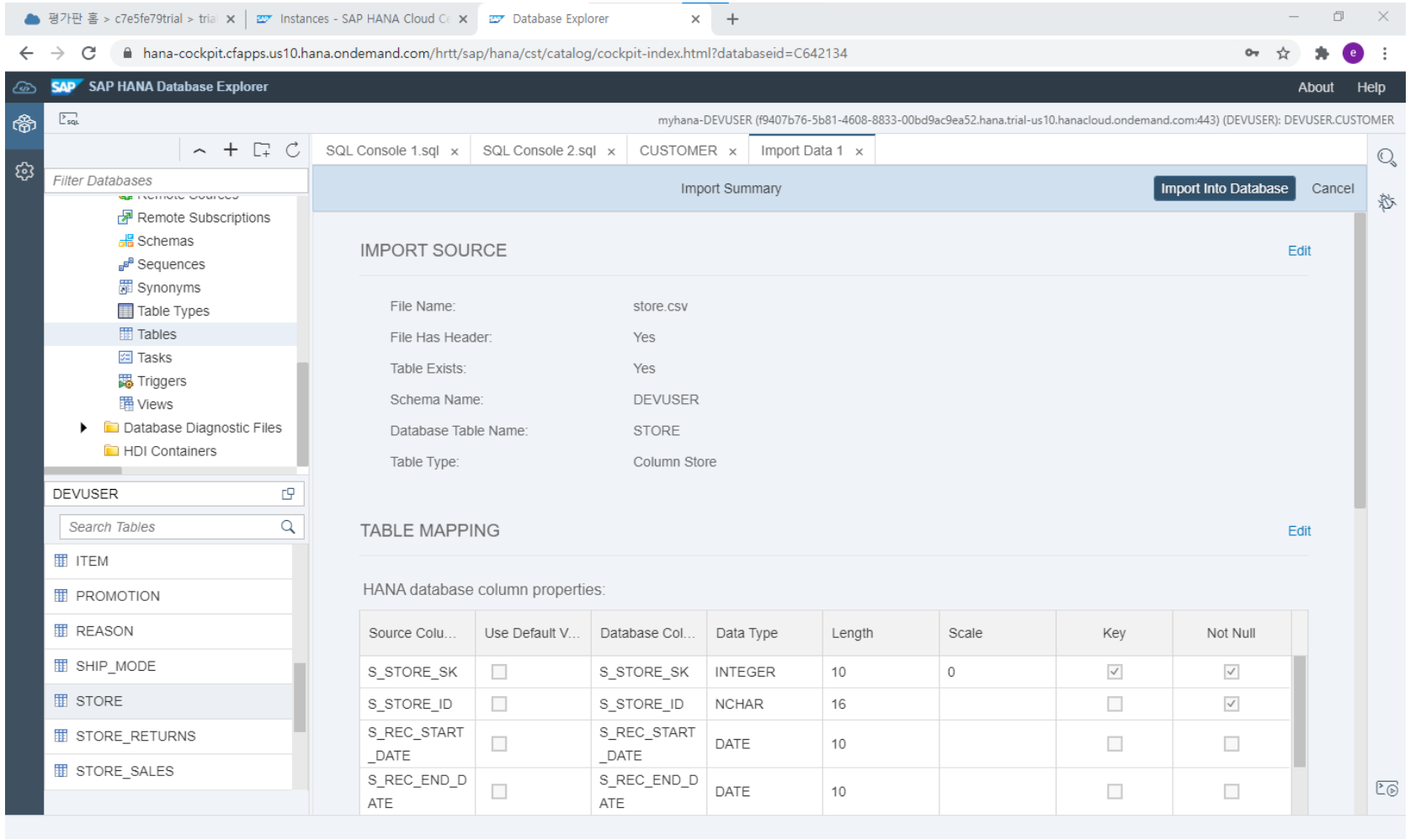


SAP HANA Database Explorer

- 적재 작업 중 오류 발생 시 처리 방식 선택
- “Review” 버튼 클릭

SAP HANA Database Explorer

Local Data Load

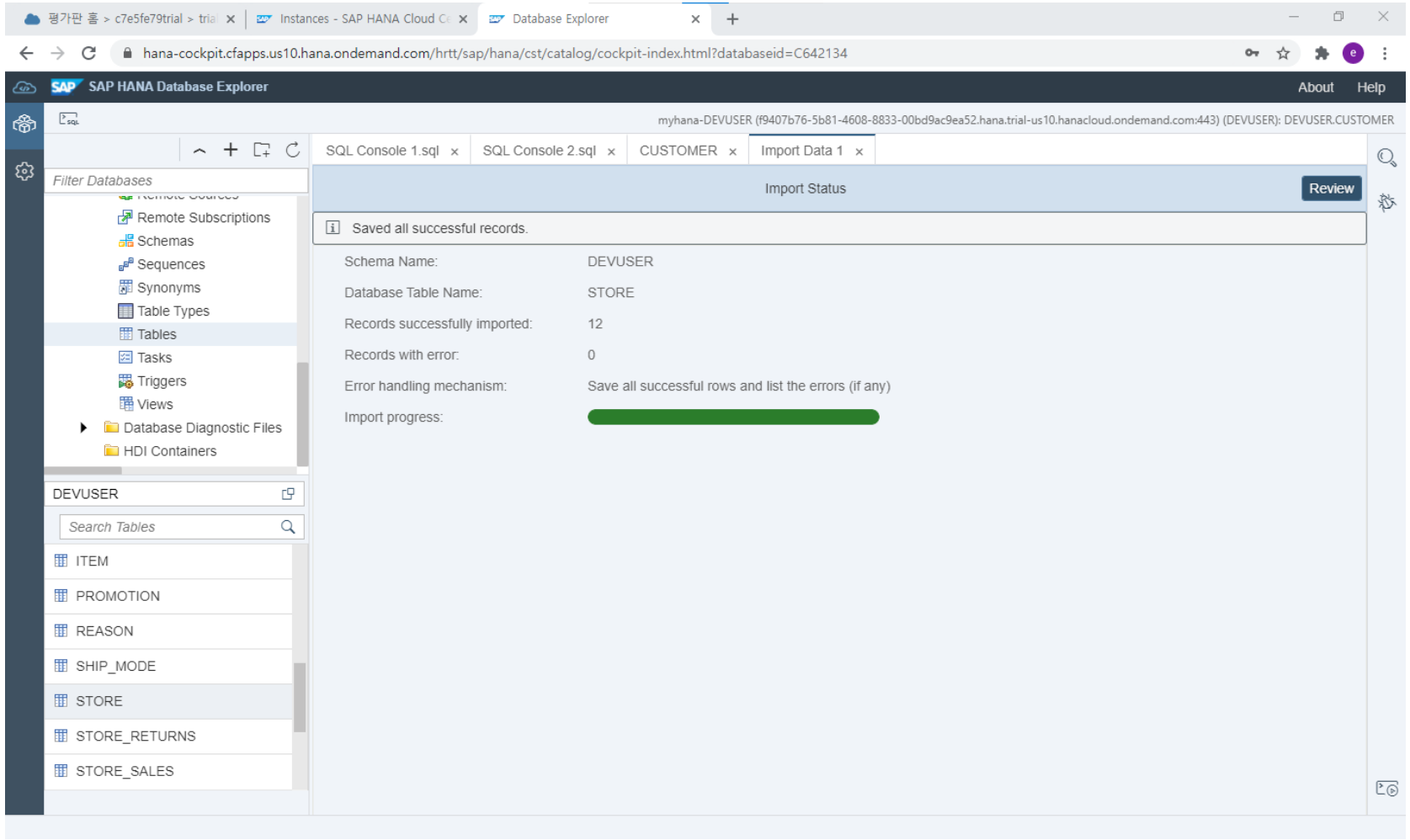


SAP HANA Database Explorer

- 설정 내용 확인
- “Import into Database” 버튼 클릭

SAP HANA Database Explorer

Local Data Load

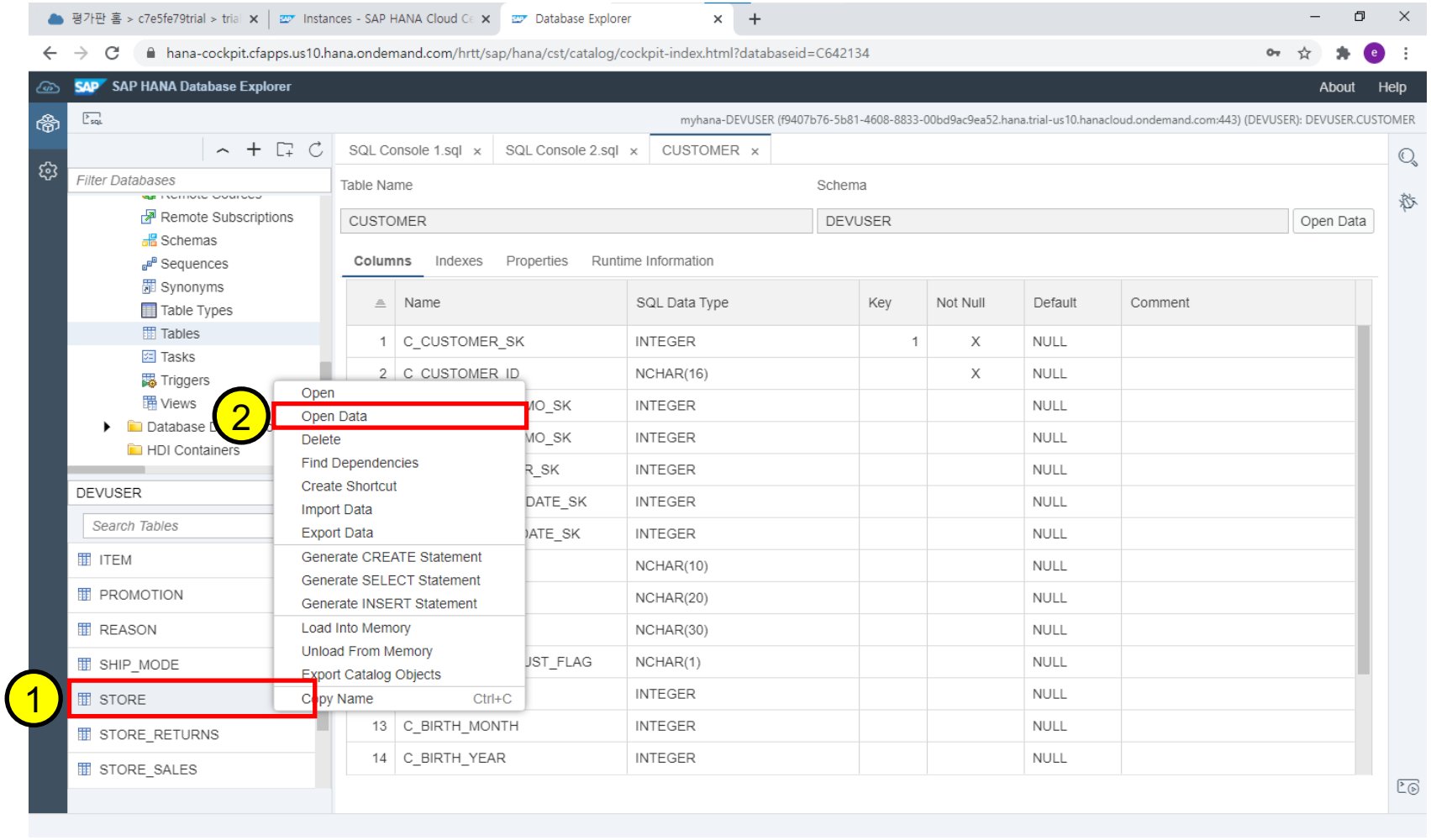


SAP HANA Database Explorer

- 적재 작업 완료 확인

SAP HANA Database Explorer

Local Data Load

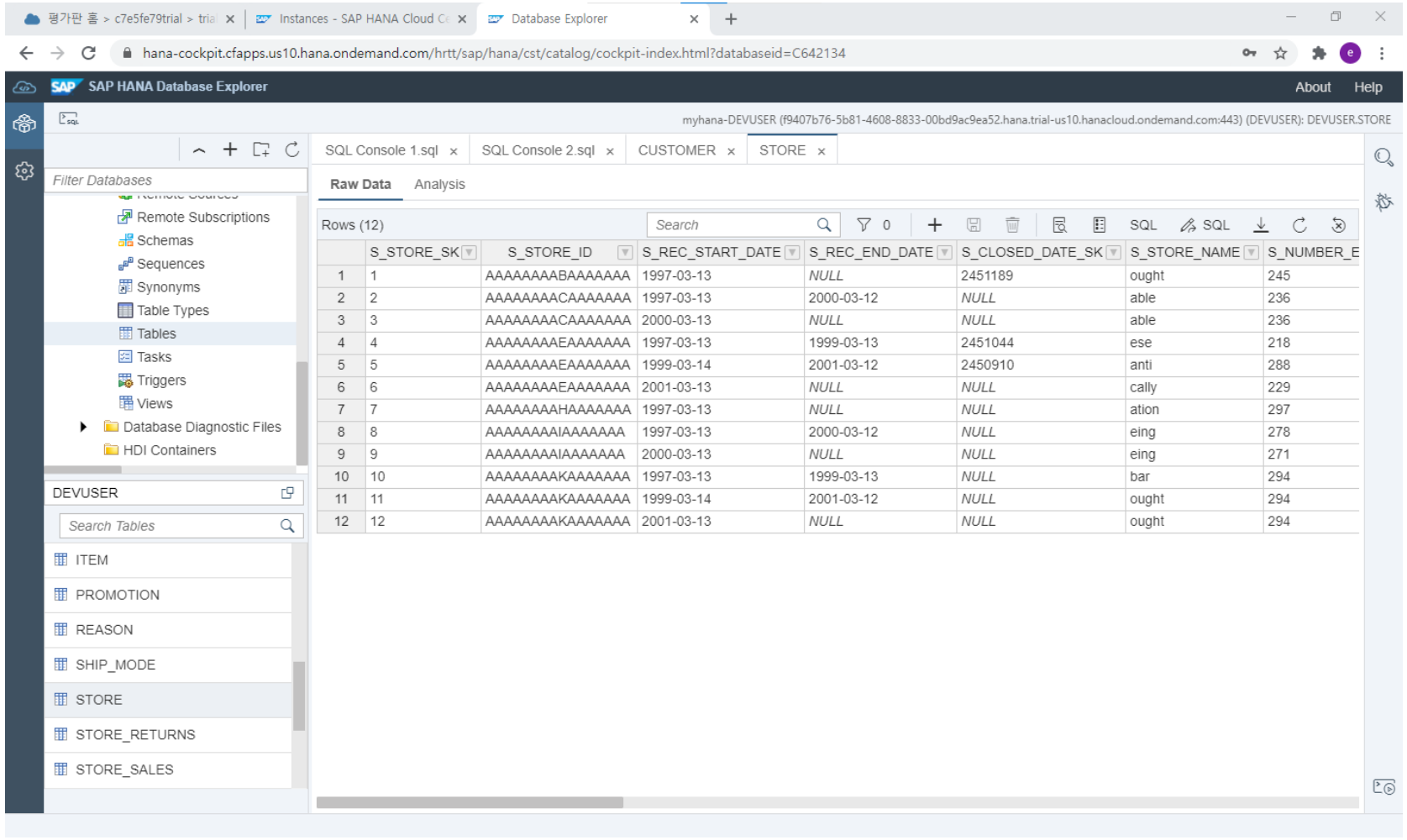


SAP HANA Database Explorer

- STORE 테이블을 우 클릭
- Popup 메뉴에서 “Open Data” 클릭

SAP HANA Database Explorer

Local Data Load



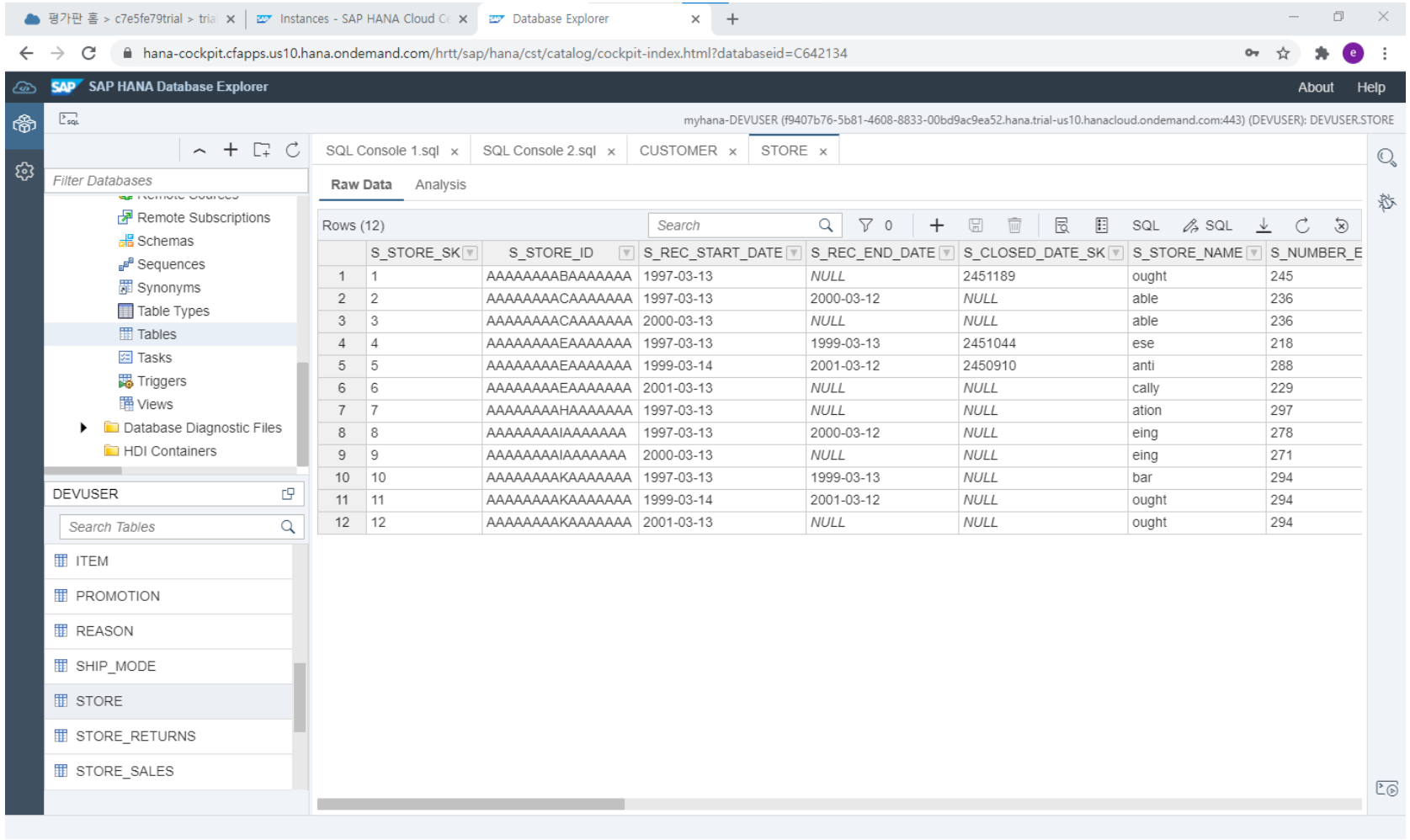
	S_STORE_SK	S_STORE_ID	S_REC_START_DATE	S_REC_END_DATE	S_CLOSED_DATE_SK	S_STORE_NAME	S_NUMBER_E
1	1	AAAAAAAABAAAAAAA	1997-03-13	NULL	2451189	ought	245
2	2	AAAAAAAACAAAAAAA	1997-03-13	2000-03-12	NULL	able	236
3	3	AAAAAAAACAAAAAAA	2000-03-13	NULL	NULL	able	236
4	4	AAAAAAAAEAAAAAAA	1997-03-13	1999-03-13	2451044	ese	218
5	5	AAAAAAAAEAAAAAAA	1999-03-14	2001-03-12	2450910	anti	288
6	6	AAAAAAAAEAAAAAAA	2001-03-13	NULL	NULL	cally	229
7	7	AAAAAAAAHAAAAAAA	1997-03-13	NULL	NULL	ation	297
8	8	AAAAAAAAIAAAAAAA	1997-03-13	2000-03-12	NULL	eing	278
9	9	AAAAAAAAIAAAAAAA	2000-03-13	NULL	NULL	eing	271
10	10	AAAAAAAAKAAAAAAA	1997-03-13	1999-03-13	NULL	bar	294
11	11	AAAAAAAAKAAAAAAA	1999-03-14	2001-03-12	NULL	ought	294
12	12	AAAAAAAAKAAAAAAA	2001-03-13	NULL	NULL	ought	294

SAP HANA Database Explorer

- 적재 데이터 확인

SAP HANA Database Explorer

Local Data Load



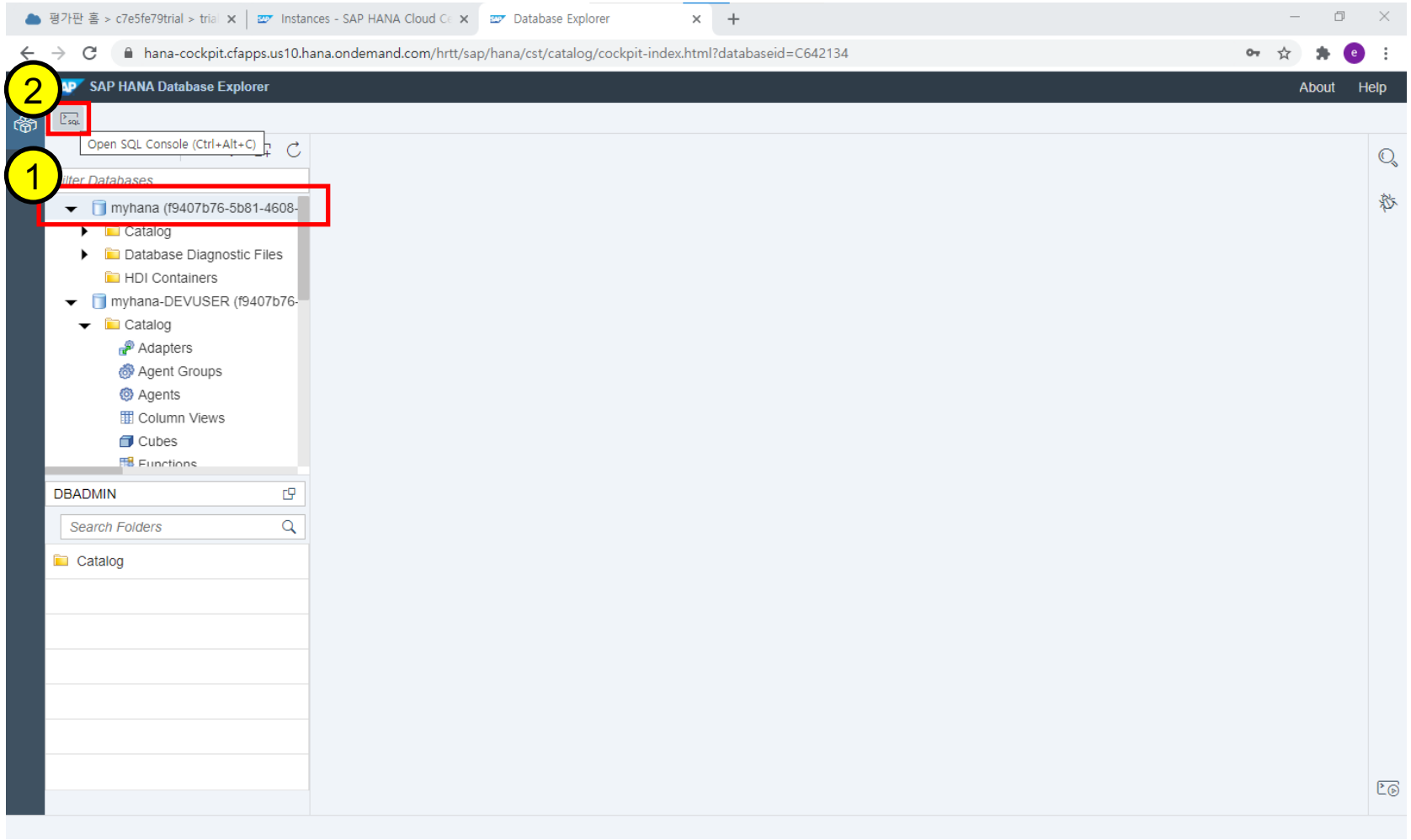
	S_STORE_SK	S_STORE_ID	S_REC_START_DATE	S_REC_END_DATE	S_CLOSED_DATE_SK	S_STORE_NAME	S_NUMBER_E
1	1	AAAAAAAABAAAAAAA	1997-03-13	NULL	2451189	ought	245
2	2	AAAAAAAACAAAAAAA	1997-03-13	2000-03-12	NULL	able	236
3	3	AAAAAAAACAAAAAAA	2000-03-13	NULL	NULL	able	236
4	4	AAAAAAAAEAAAAAAA	1997-03-13	1999-03-13	2451044	ese	218
5	5	AAAAAAAAEAAAAAAA	1999-03-14	2001-03-12	2450910	anti	288
6	6	AAAAAAAAEAAAAAAA	2001-03-13	NULL	NULL	cally	229
7	7	AAAAAAAAHAAAAAAA	1997-03-13	NULL	NULL	ation	297
8	8	AAAAAAAAIAAAAAAA	1997-03-13	2000-03-12	NULL	eing	278
9	9	AAAAAAAAIAAAAAAA	2000-03-13	NULL	NULL	eing	271
10	10	AAAAAAAAKAAAAAAA	1997-03-13	1999-03-13	NULL	bar	294
11	11	AAAAAAAAKAAAAAAA	1999-03-14	2001-03-12	NULL	ought	294
12	12	AAAAAAAAKAAAAAAA	2001-03-13	NULL	NULL	ought	294

SAP HANA Database Explorer

- 적재 데이터 확인

SAP HANA Database Explorer

Table 생성



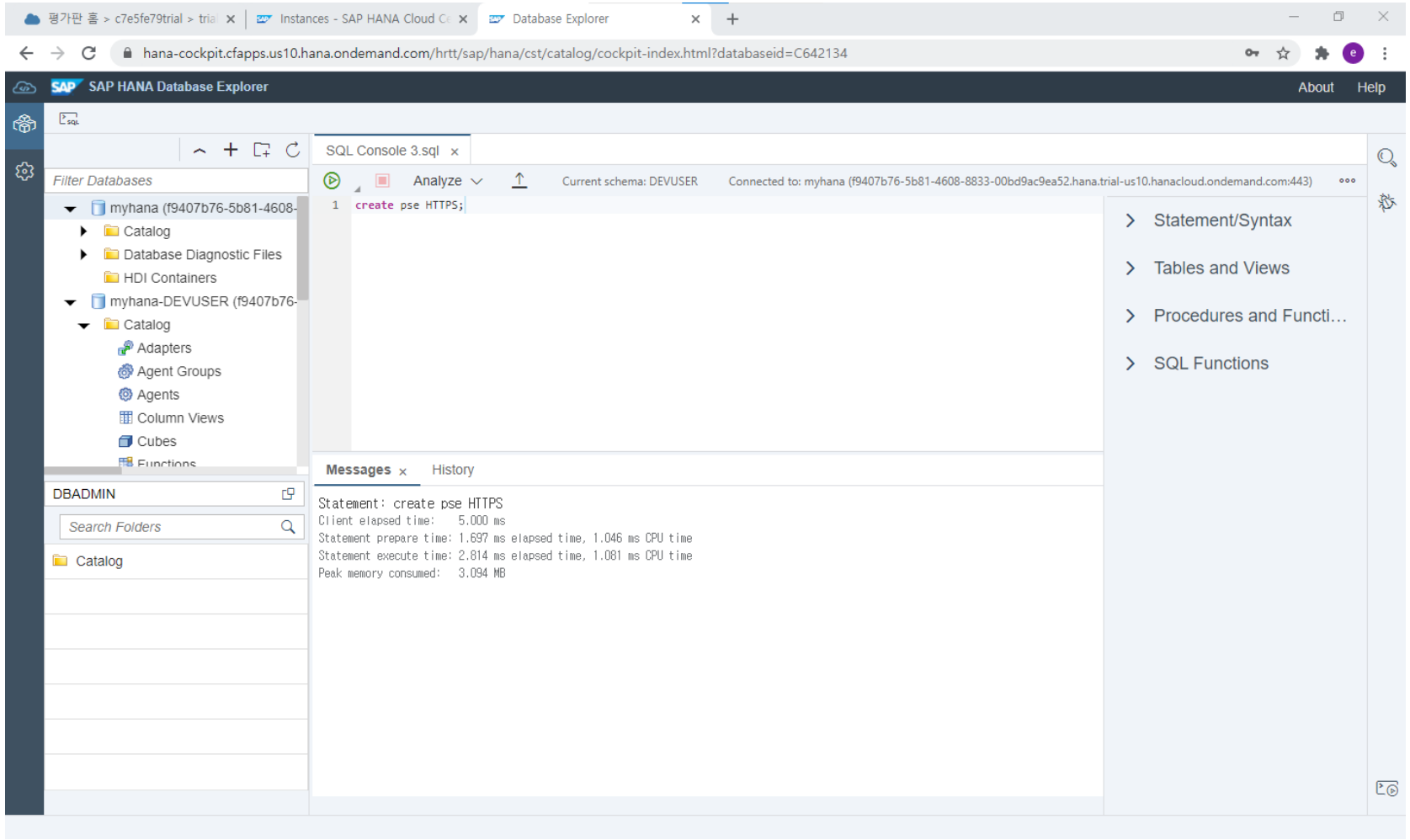
SAP HANA Database Explorer

- DBADMIN Connection 클릭
- “SQL” 버튼 클릭

SAP HANA Database Explorer

AWS S3 인증 등록

File Location :
https://github.com/euimankim/HANA_Cloud_Enablement



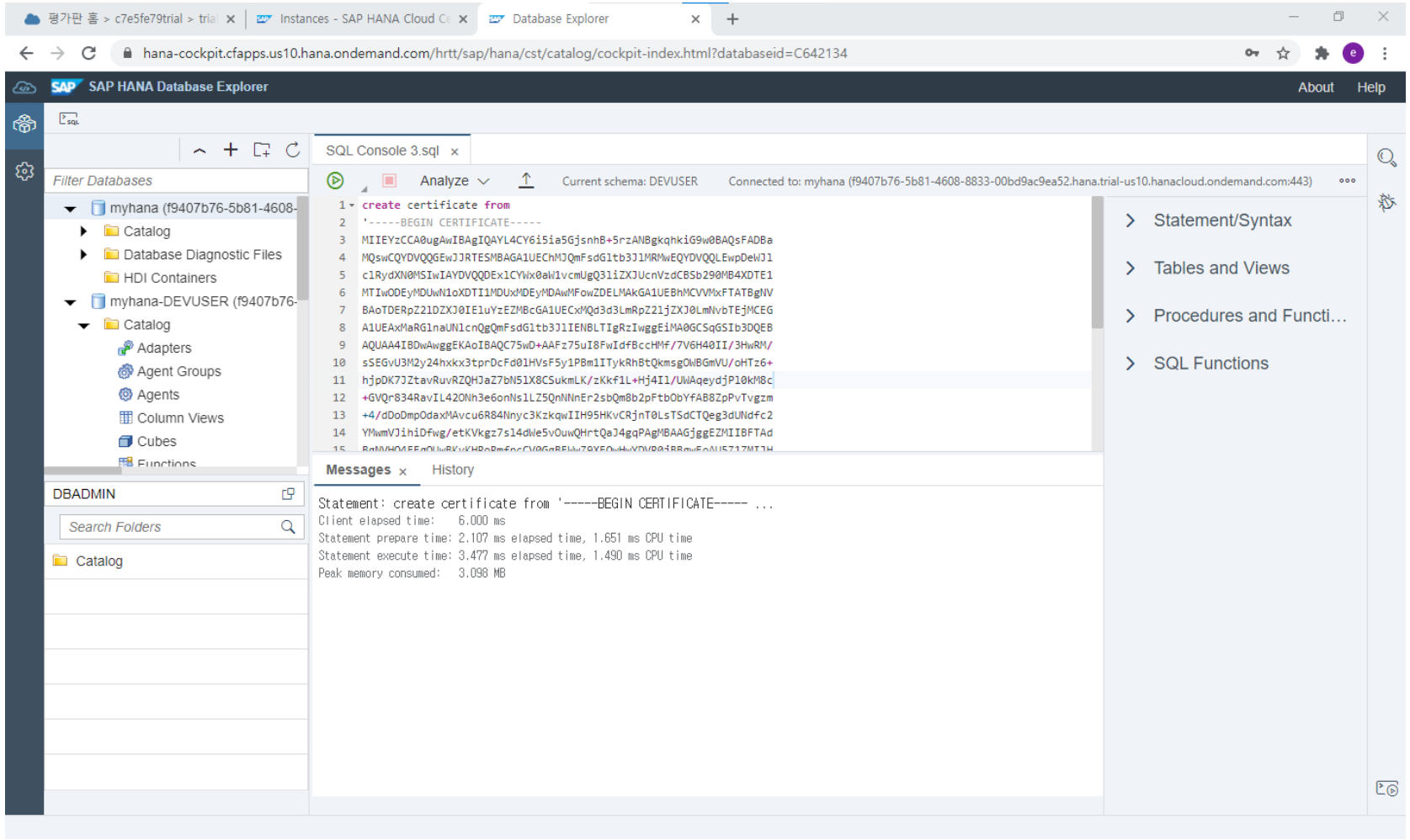
SAP HANA Database Explorer

- DBADMIN Connection 클릭
- aws_S3_certificate.sql 파일의 내용 중 1 단계 SQL을 복사 후 붙여넣기
-  버튼을 클릭하면 해당 SQL 실행

SAP HANA Database Explorer

AWS S3 인증 등록

File Location :
https://github.com/euimankim/HANA_Cloud_Enablement



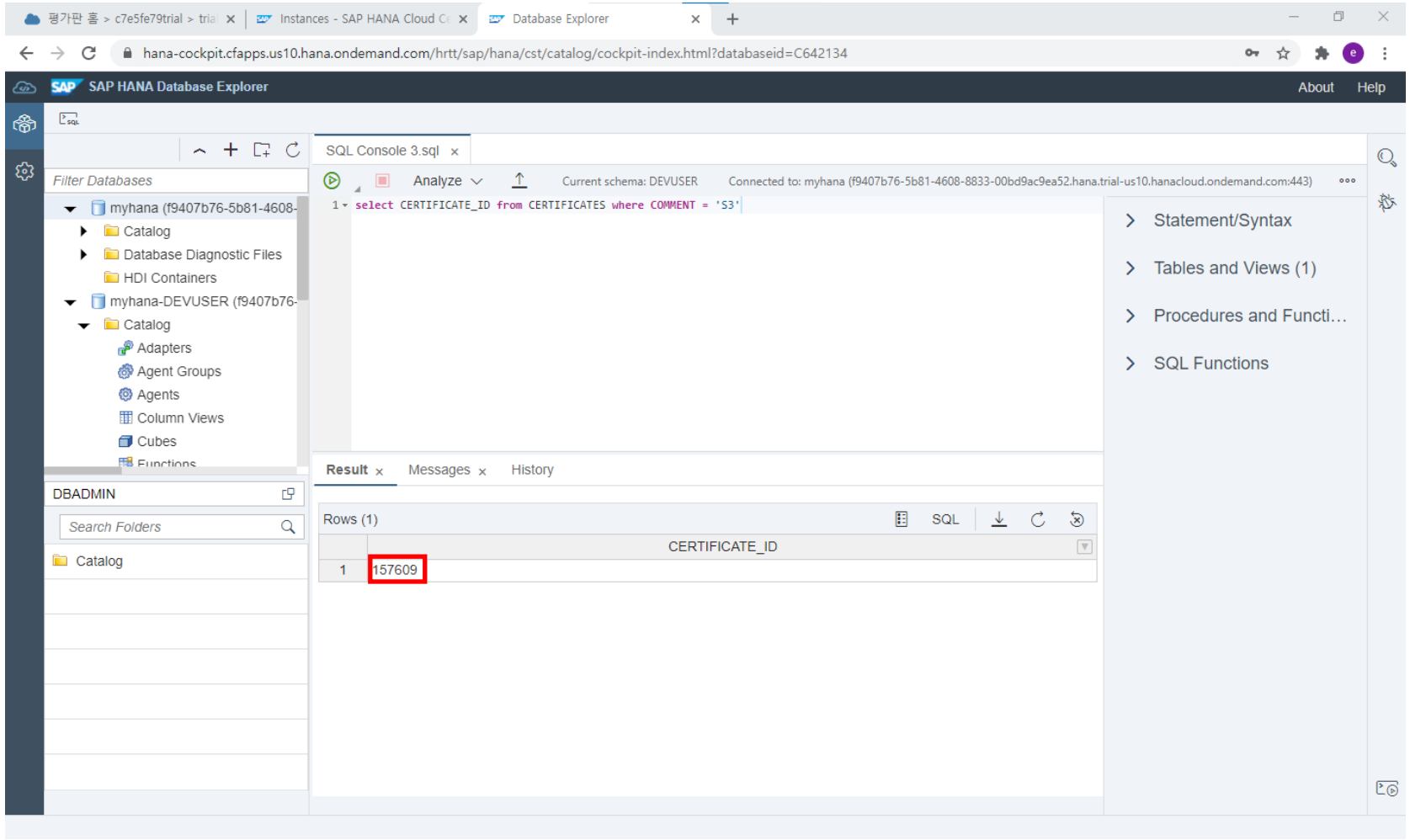
SAP HANA Database Explorer

- DBADMIN Connection 클릭
- aws_S3_certificate.sql 파일의 내용 중 2단계 SQL을 복사 후 붙여넣기
-  버튼을 클릭하면 해당 SQL 실행

SAP HANA Database Explorer

AWS S3 인증 등록

File Location :
https://github.com/euimankim/HANA_Cloud_Enablement



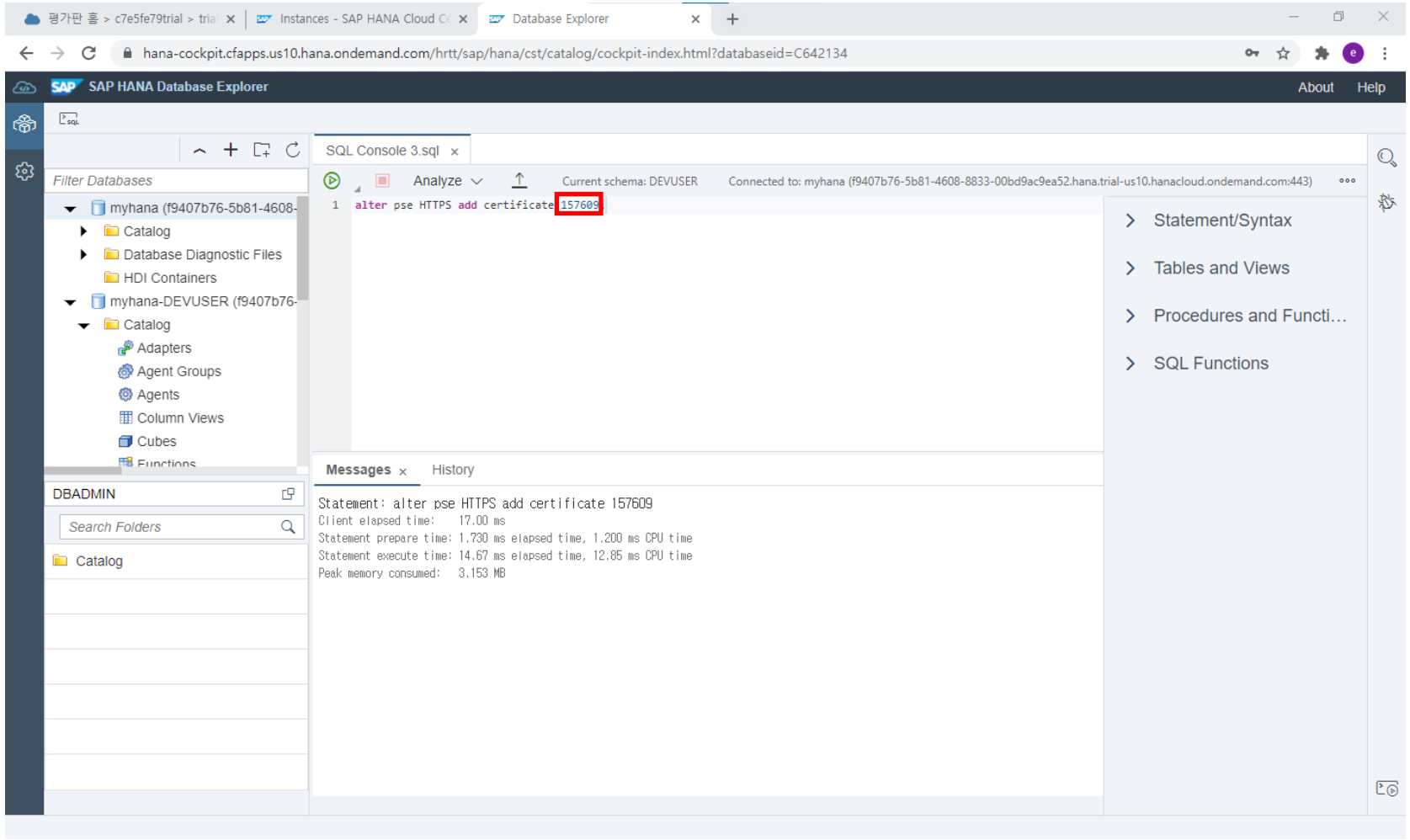
SAP HANA Database Explorer

- DBADMIN Connection 클릭
- aws_S3_certificate.sql 파일의 내용 중 3 단계 SQL을 복사 후 붙여넣기
-  버튼을 클릭하면 해당 SQL 실행
- Result 에 조회된 CERTIFICATE_ID 값을 다음 단계에서 사용

SAP HANA Database Explorer

AWS S3 인증 등록

File Location :
https://github.com/euimankim/HANA_Cloud_Enablement



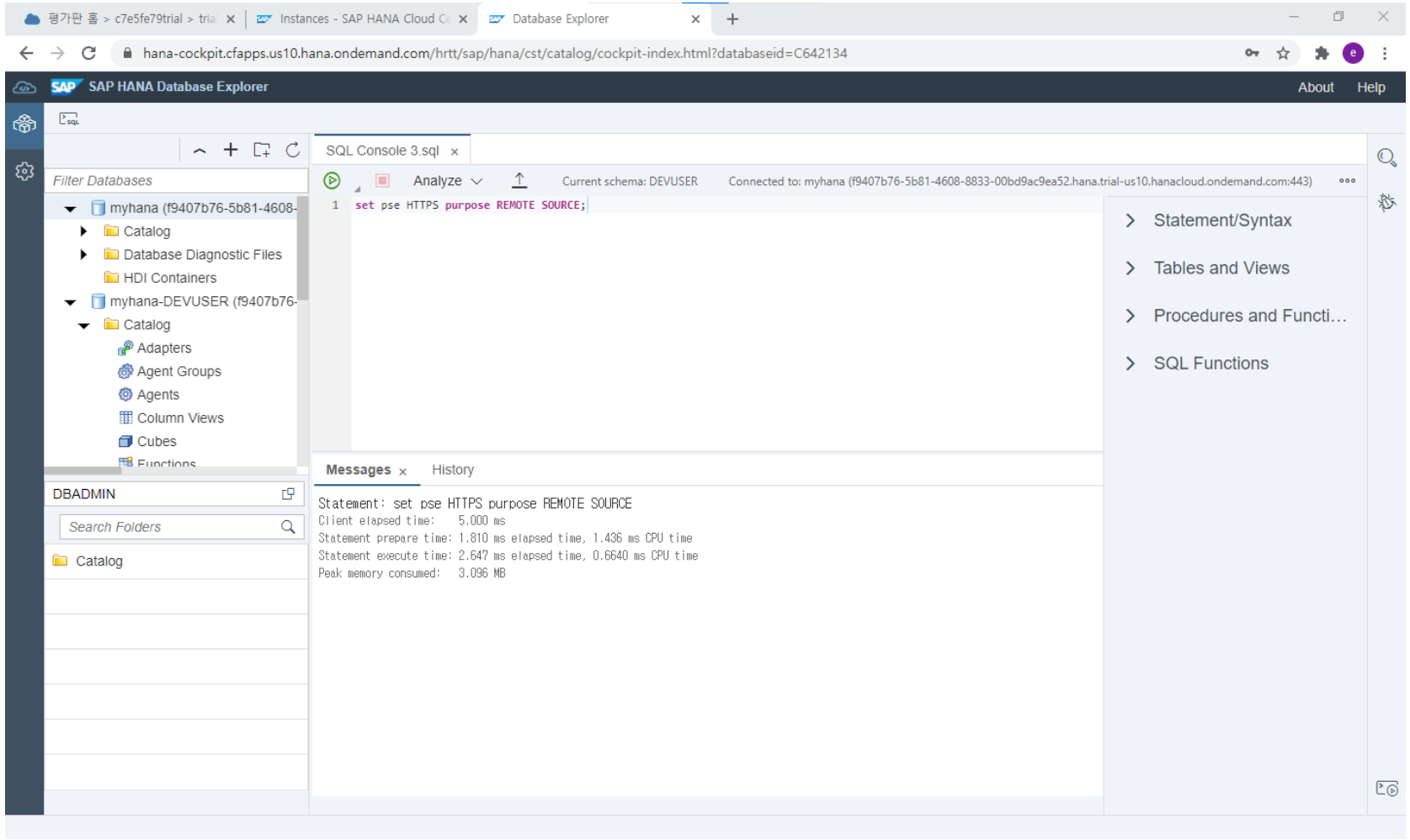
SAP HANA Database Explorer

- DBADMIN Connection 클릭
- aws_S3_certificate.sql 파일의 내용 중 4 단계 SQL을 복사 후 붙여넣기
- <Certificate_Id> 부분에 이전 단계의 CERTIFICATE_ID 값으로 대체
- 버튼을 클릭하면 해당 SQL 실행

SAP HANA Database Explorer

AWS S3 인증 등록

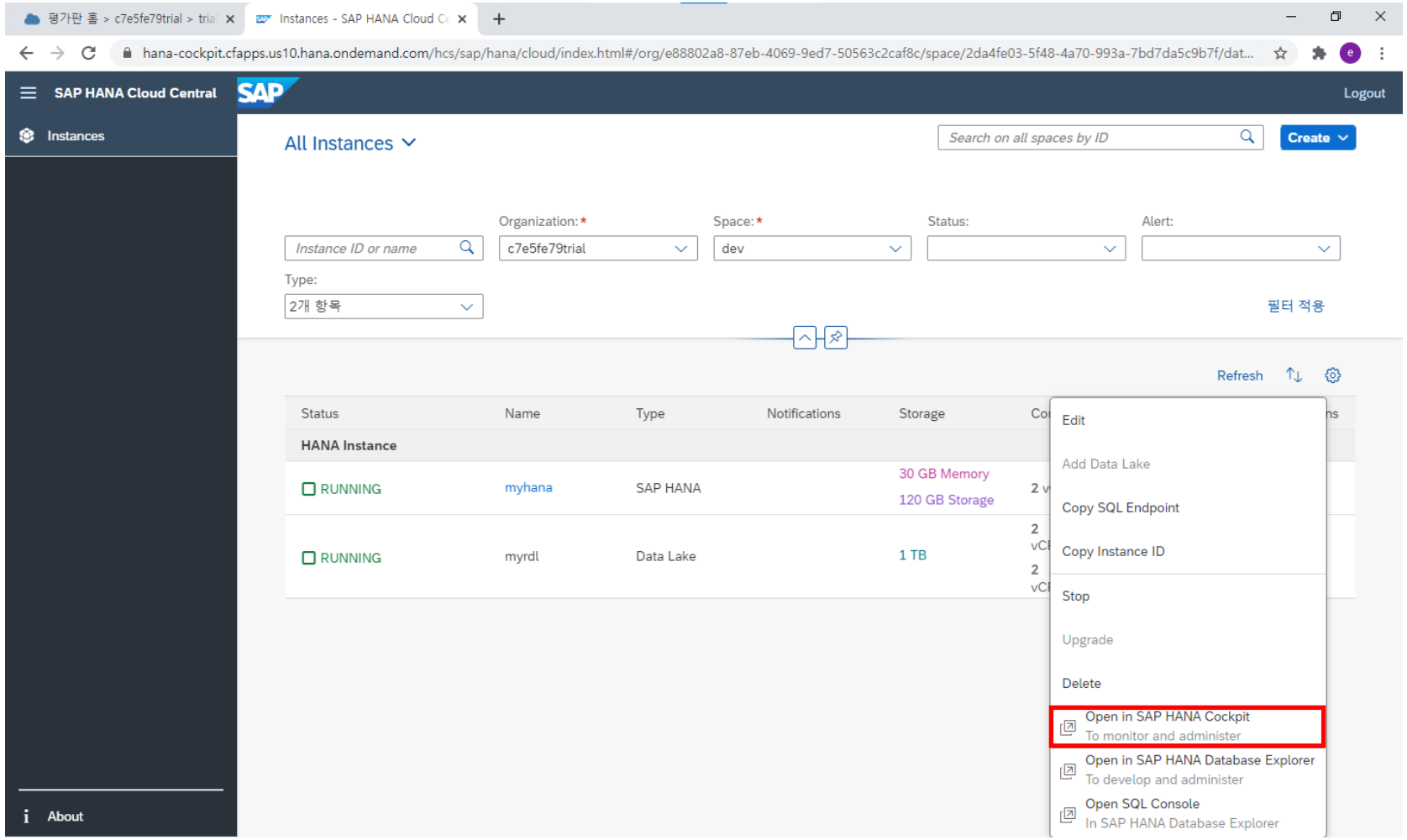
File Location :
https://github.com/euimankim/HANA_Cloud_Enablement



SAP HANA Database Explorer

- DBADMIN Connection 클릭
- aws_S3_certificate.sql 파일의 내용 중 5단계 SQL을 복사 후 붙여넣기
-  버튼을 클릭하면 해당 SQL 실행

SAP HANA Cockpit
SAP HANA Cloud 인스턴스 관리자

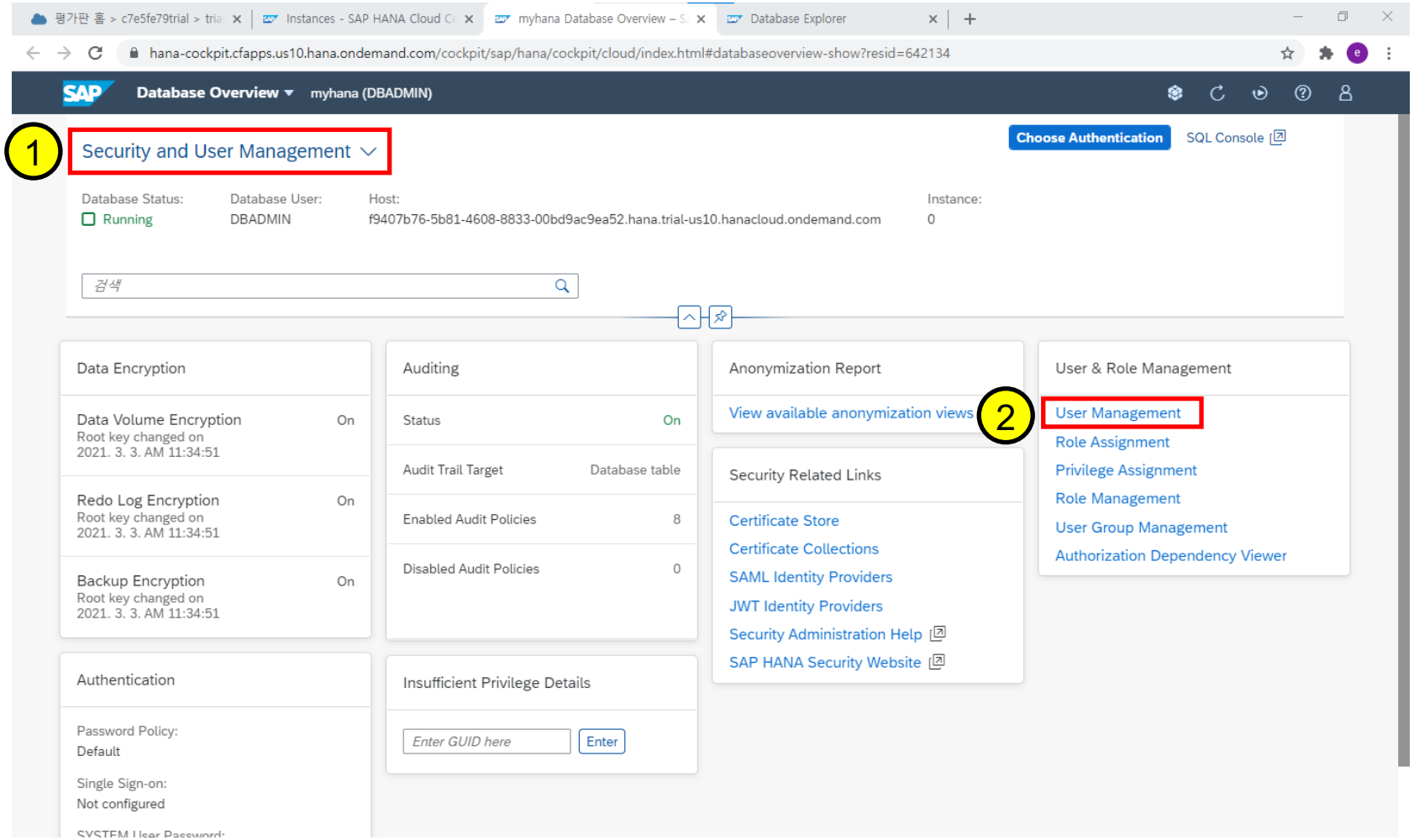


SAP HANA Cloud 인스턴스 관리자

- myhana 인스턴스의 “Actions” 컬럼을 클릭
- Popup 메뉴에서 “**Open in SAP HANA Cockpit**”을 클릭

SAP HANA Cockpit

Import/Export 권한 부여

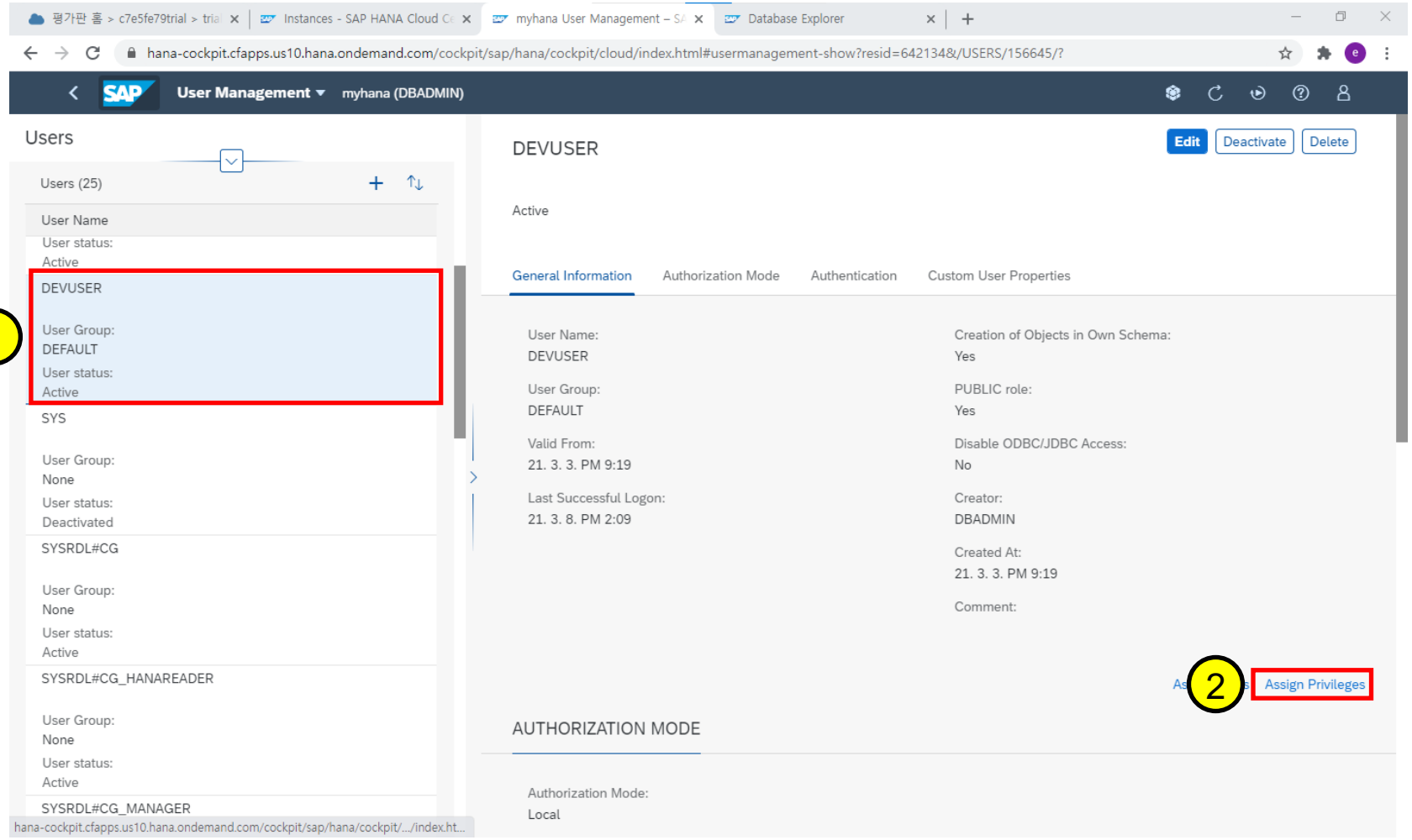


SAP HANA Cockpit

- Security and User Management 화면 전환
- “User Management” 클릭

SAP HANA Cockpit

Import/Export 권한 부여

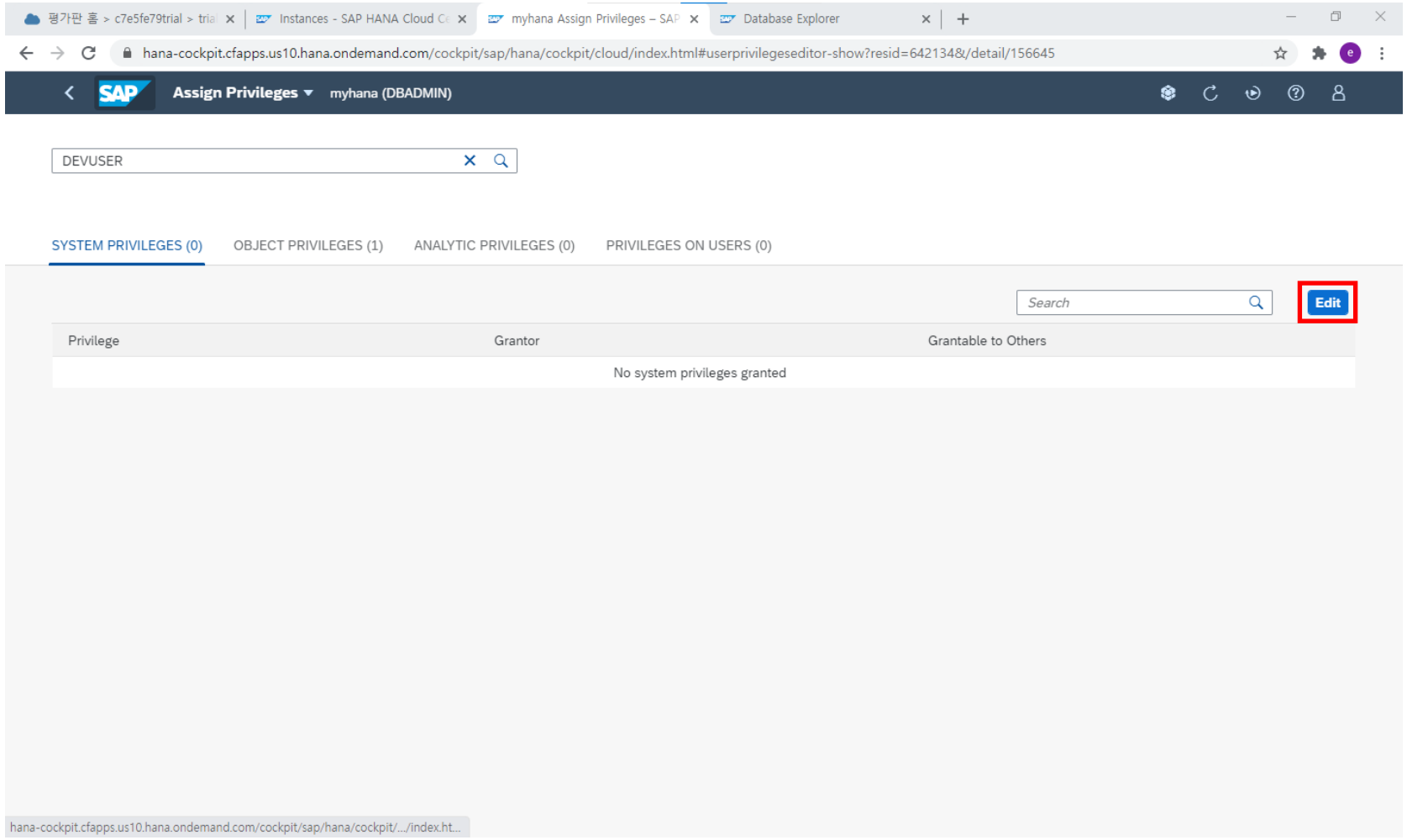


SAP HANA Cockpit

- DEVUSER 클릭
- “Assign Privileges” 클릭

SAP HANA Cockpit

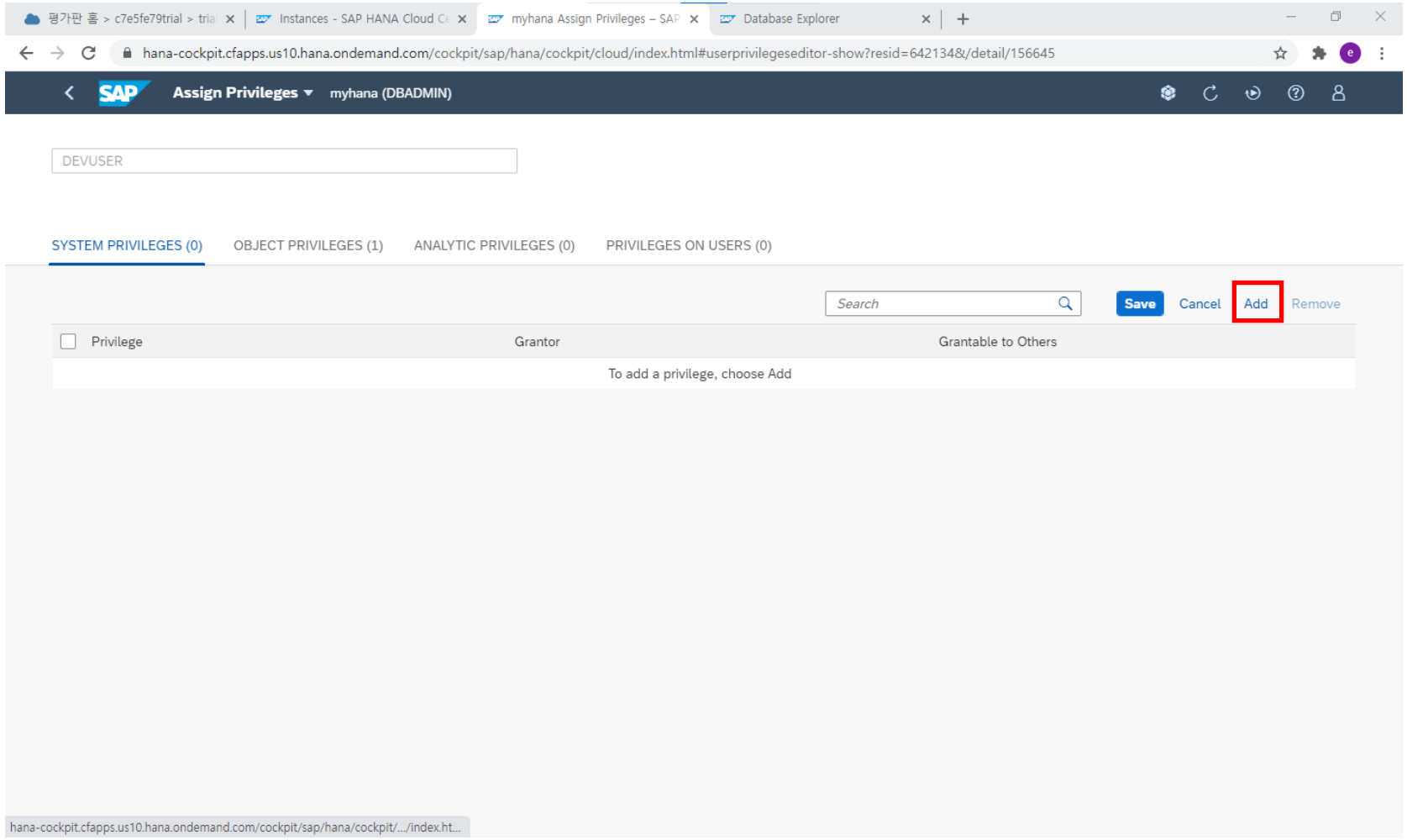
Import/Export 권한 부여



SAP HANA Cockpit

- “Edit” 버튼 클릭

SAP HANA Cockpit
Import/Export 권한 부여

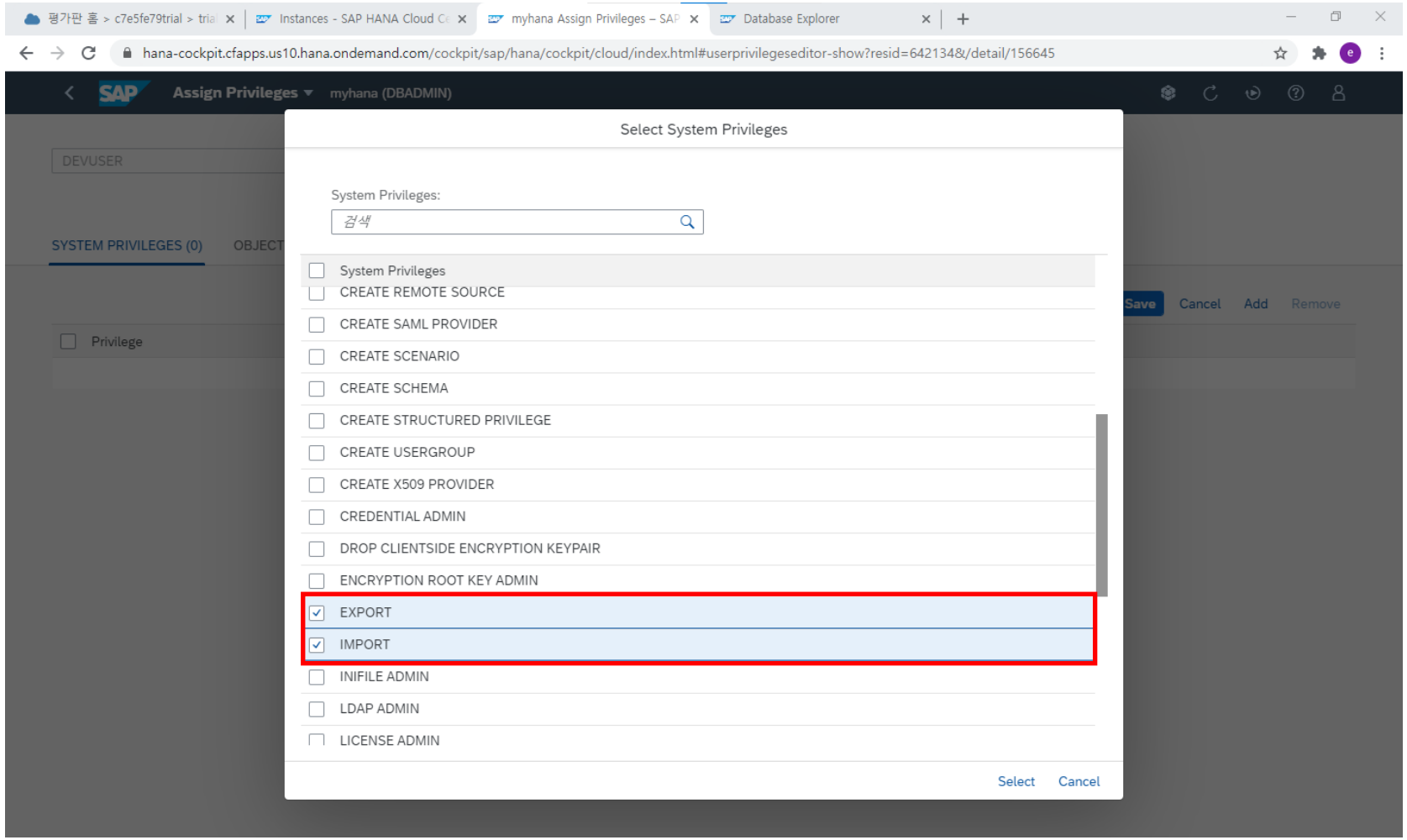


SAP HANA Cockpit

- “Add” 버튼 클릭

SAP HANA Cockpit

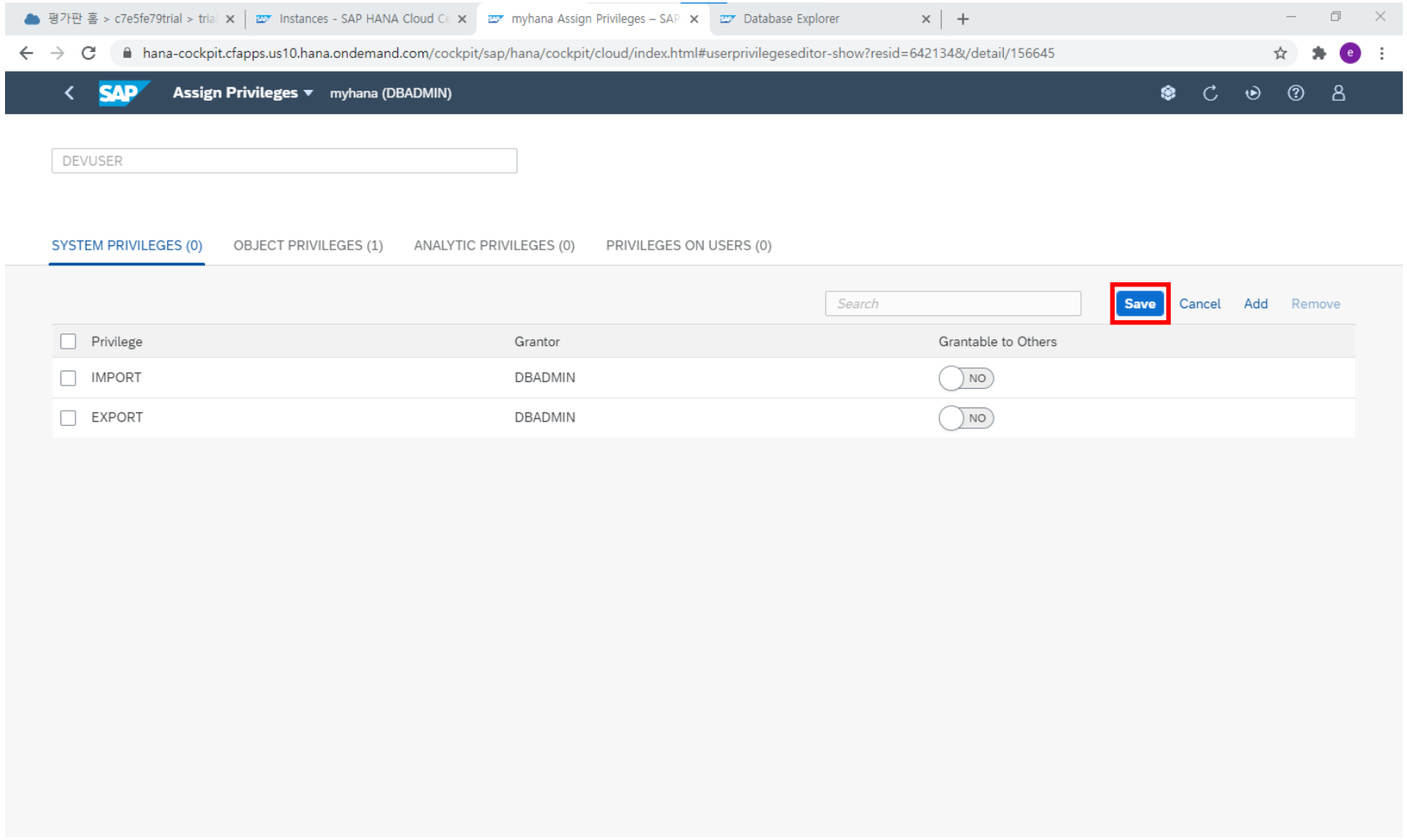
Import/Export 권한 부여



SAP HANA Cockpit

- Export 및 Import 선택
- “Select” 버튼 클릭

SAP HANA Cockpit
Import/Export 권한 부여

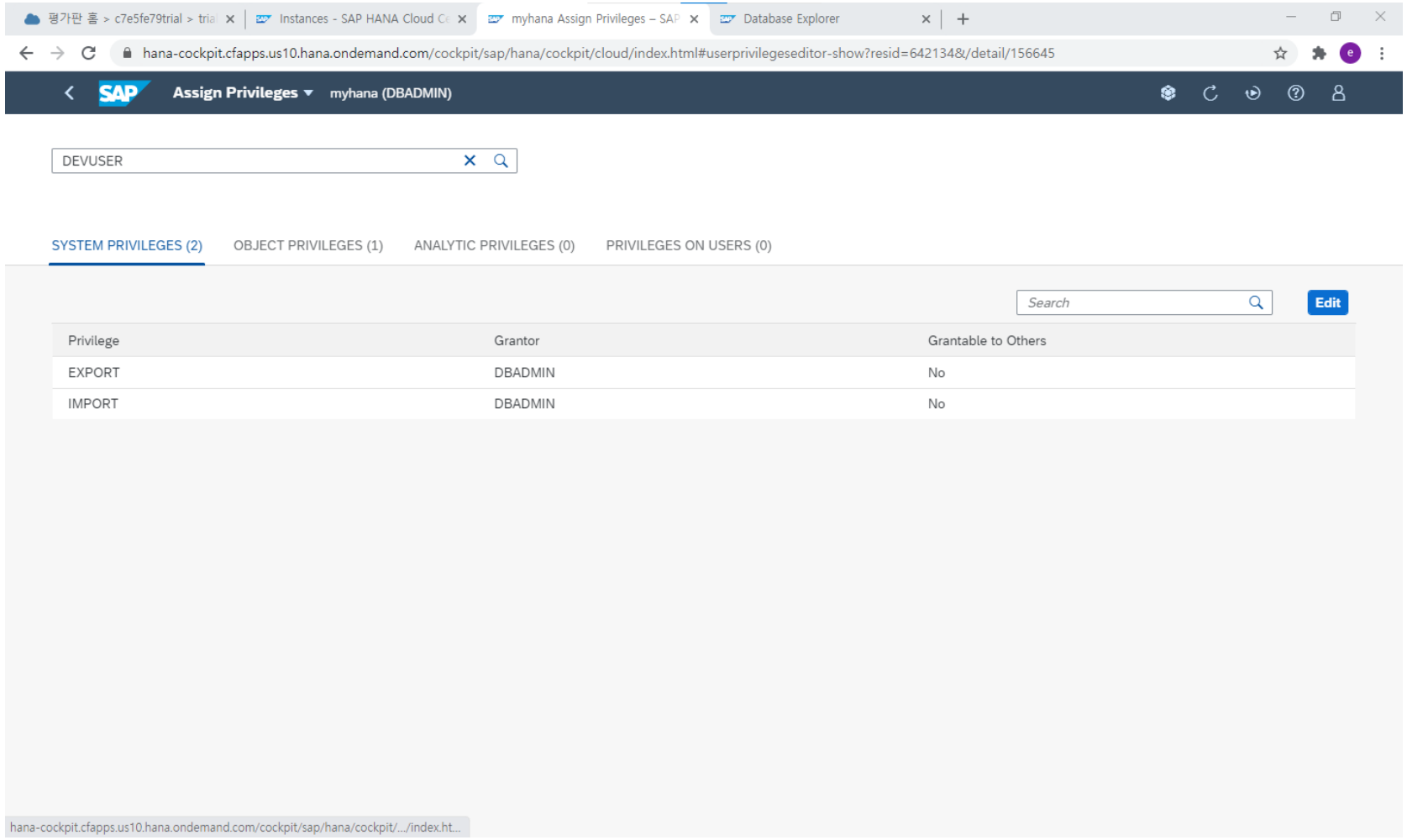


SAP HANA Cockpit

- “Save” 버튼을 클릭

SAP HANA Cockpit

Import/Export 권한 부여

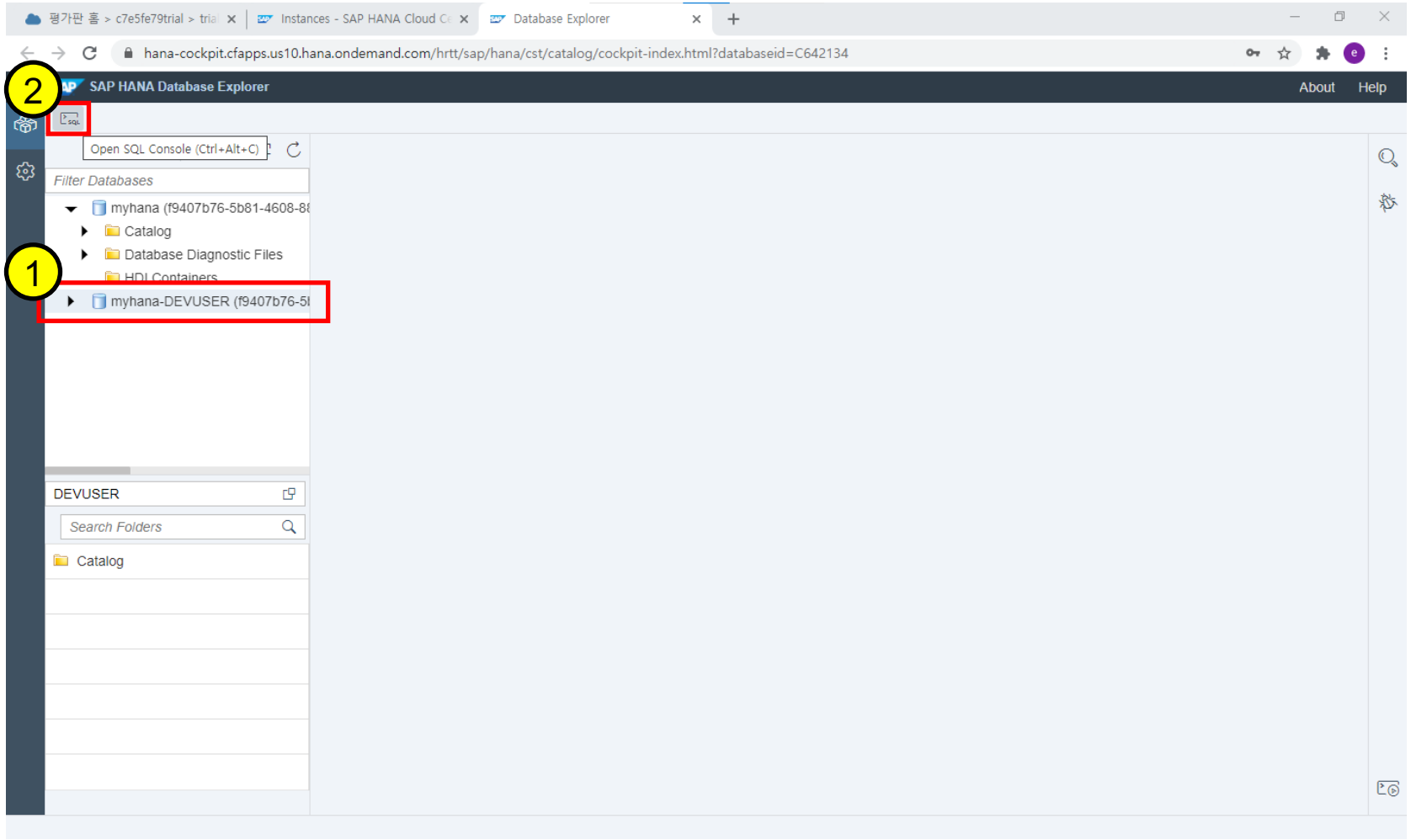


SAP HANA Cockpit

- 결과 조회

SAP HANA Database Explorer

AWS S3 File to HANA Cloud Data Load



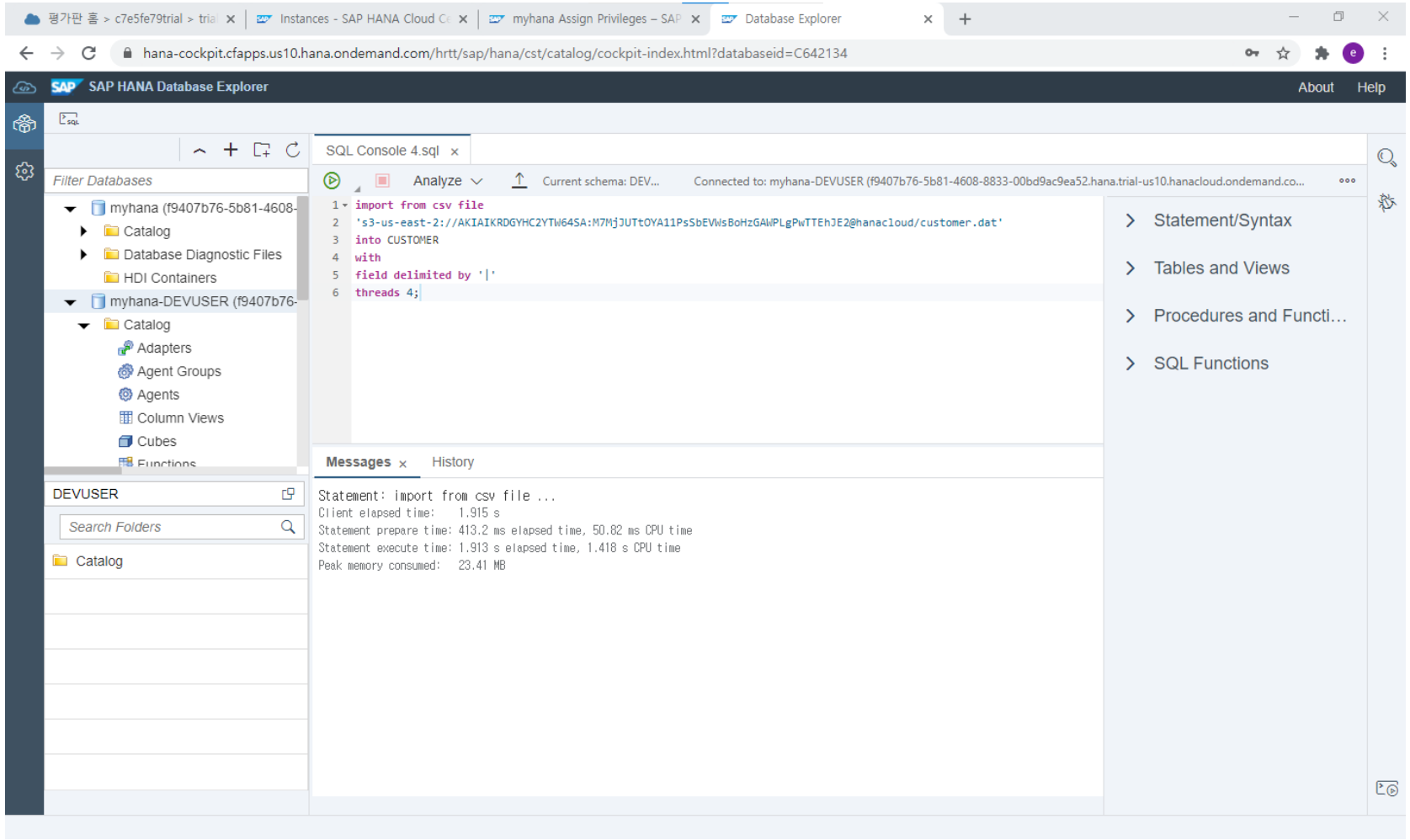
SAP HANA Database Explorer

- DEVUSER Connection 클릭
- “SQL” 버튼 클릭

SAP HANA Database Explorer

AWS S3 File to HANA Cloud Data Load

File Location :
https://github.com/euimankim/HANA_Cloud_Enablement



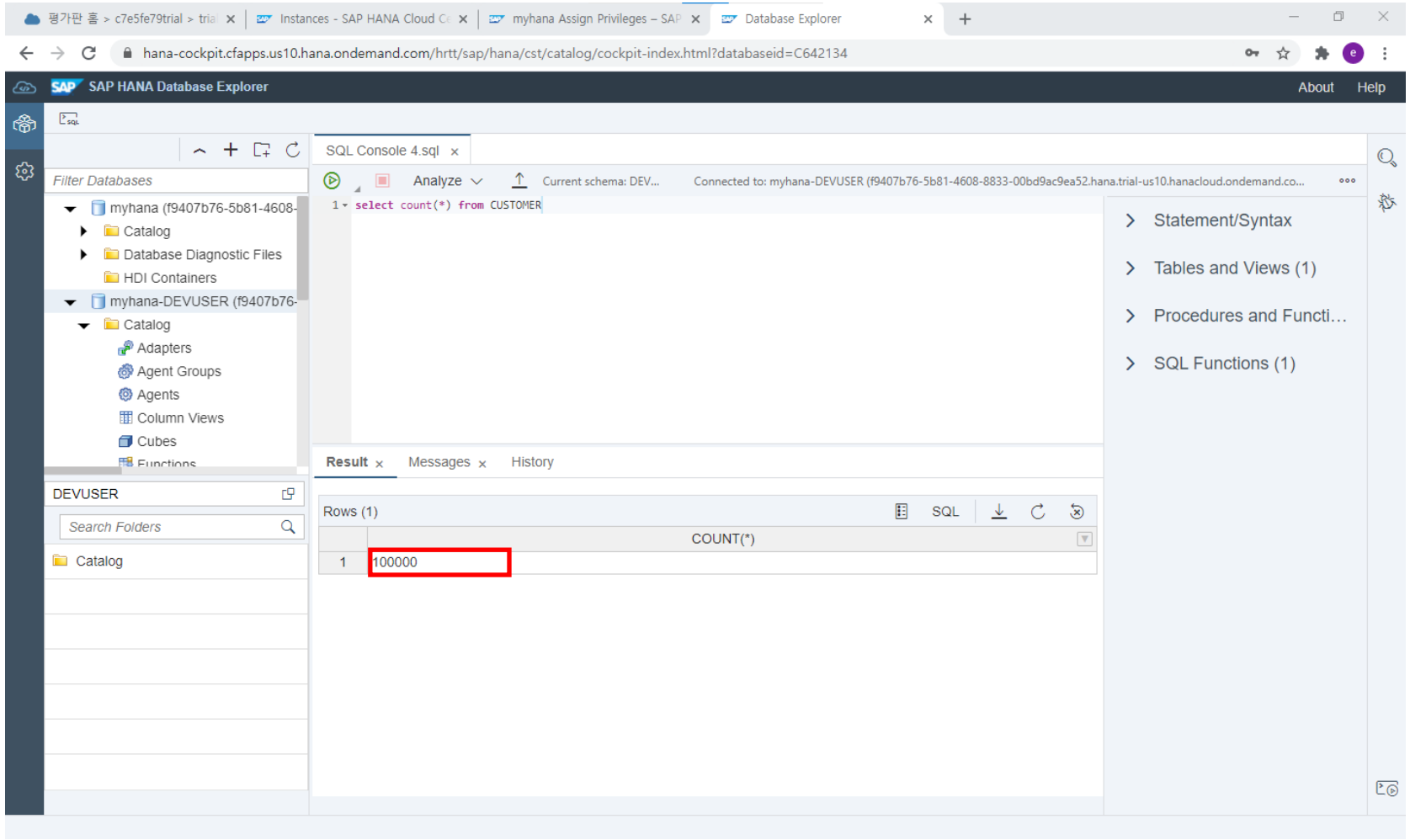
SAP HANA Database Explorer

- import_data_hana_cloud.sql 파일의 내용 중 1 단계 SQL을 복사 후 붙여넣기
-  버튼을 클릭하면 해당 SQL 실행
- CUSTOMER 테이블에 데이터 적재

SAP HANA Database Explorer

AWS S3 File to HANA Cloud Data Load

File Location :
https://github.com/euimankim/HANA_Cloud_Enablement



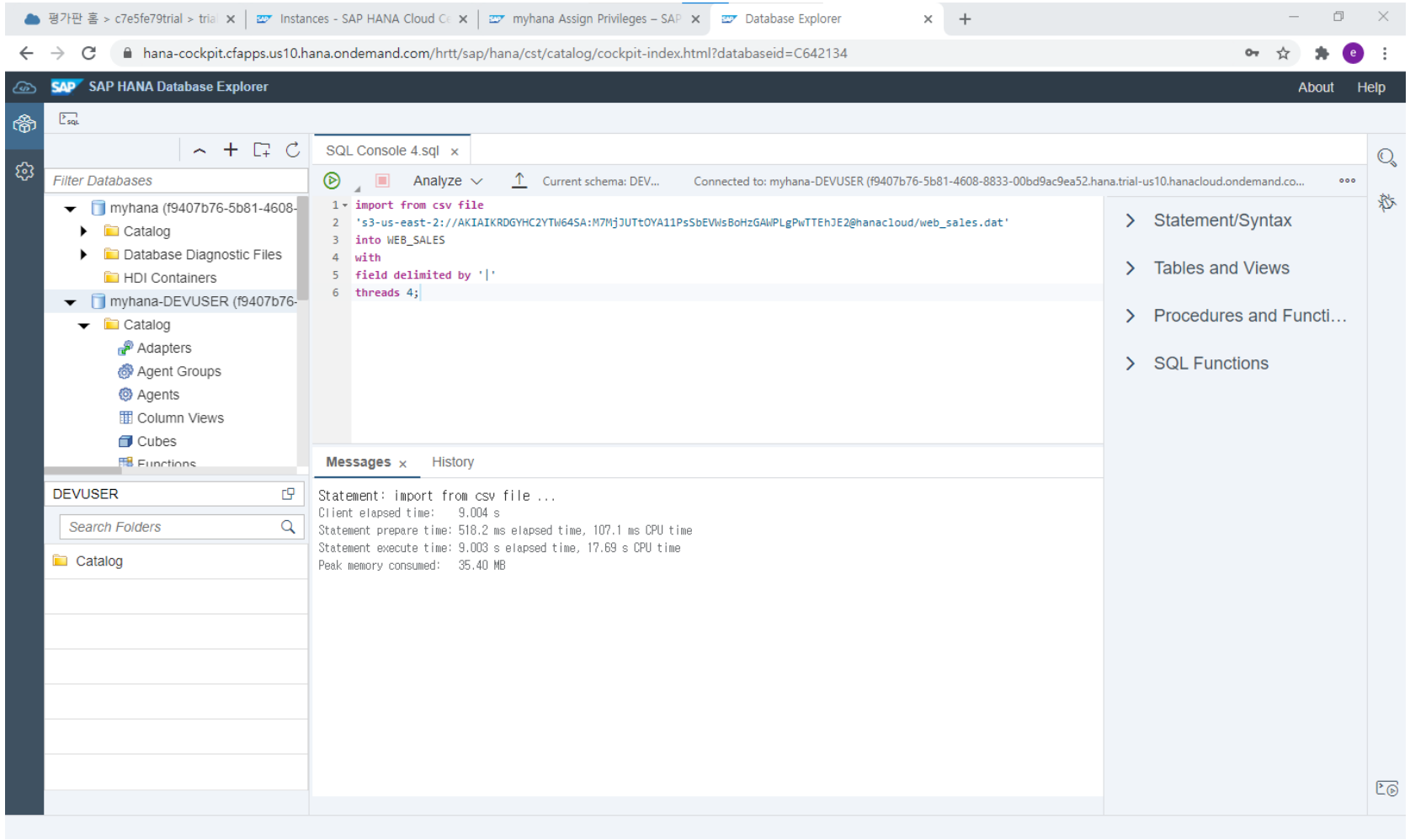
SAP HANA Database Explorer

- import_data_hana_cloud.sql 파일의 내용 중 2 단계 SQL을 복사 후 붙여넣기
-  버튼을 클릭하면 해당 SQL 실행
- CUSTOMER 테이블의 적재 건수 확인

SAP HANA Database Explorer

AWS S3 File to HANA Cloud Data Load

File Location :
https://github.com/euimankim/HANA_Cloud_Enablement



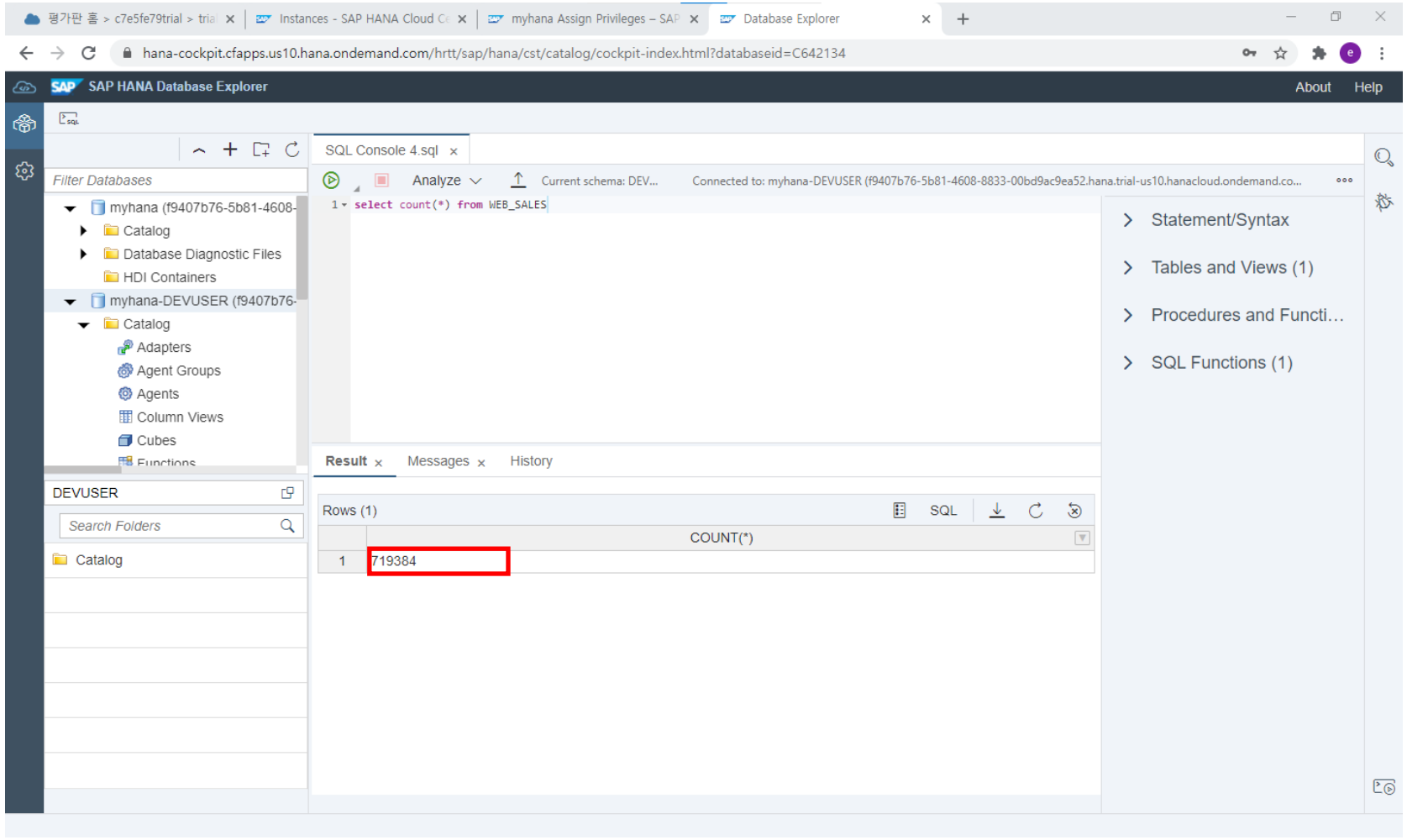
SAP HANA Database Explorer

- import_data_hana_cloud.sql 파일의 내용 중 4 단계 SQL을 복사 후 붙여넣기
- 버튼을 클릭하면 해당 SQL 실행
- WEB_SALES 테이블에 데이터 적재

SAP HANA Database Explorer

AWS S3 File to HANA Cloud Data Load

File Location :
https://github.com/euimankim/HANA_Cloud_Enablement



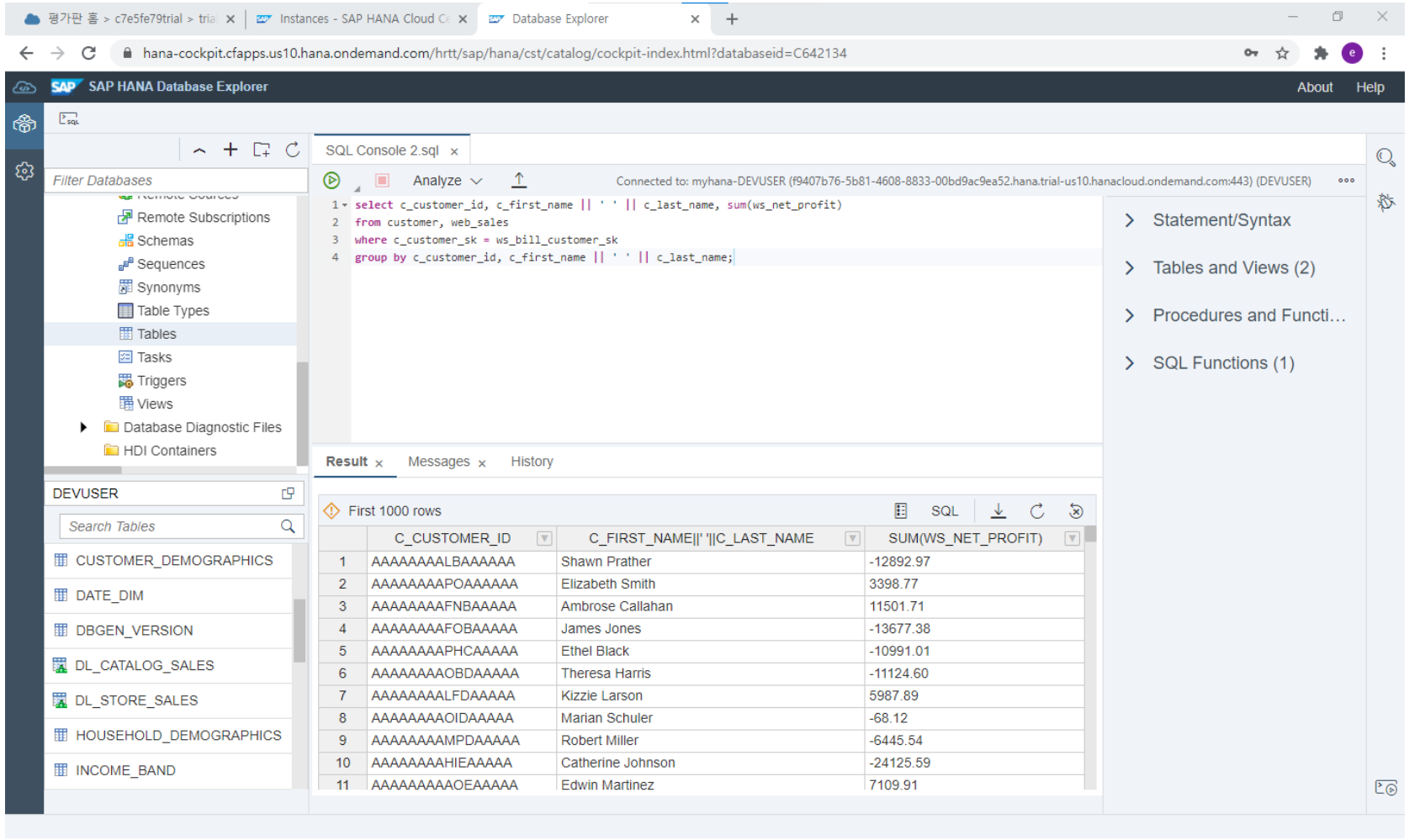
SAP HANA Database Explorer

- import_data_hana_cloud.sql 파일의 내용 중 5 단계 SQL을 복사 후 붙여넣기
- 버튼을 클릭하면 해당 SQL 실행
- WEB_SALES 테이블의 적재 건수 확인

SAP HANA Database Explorer

HANA Cloud + HANA Cloud Join Query

File Location :
https://github.com/euimankim/HANA_Cloud_Enablement



SAP HANA Database Explorer

- query.sql 파일의 내용 중 1 단계 SQL을 복사 후 붙여넣기
- 버튼을 클릭하면 해당 SQL 실행
- Result 에서 결과 조회