ASSIGNMENT 9

SAP Business Object Design Studio 1.5

Exercise: Twitter Data Load into SAP HANA

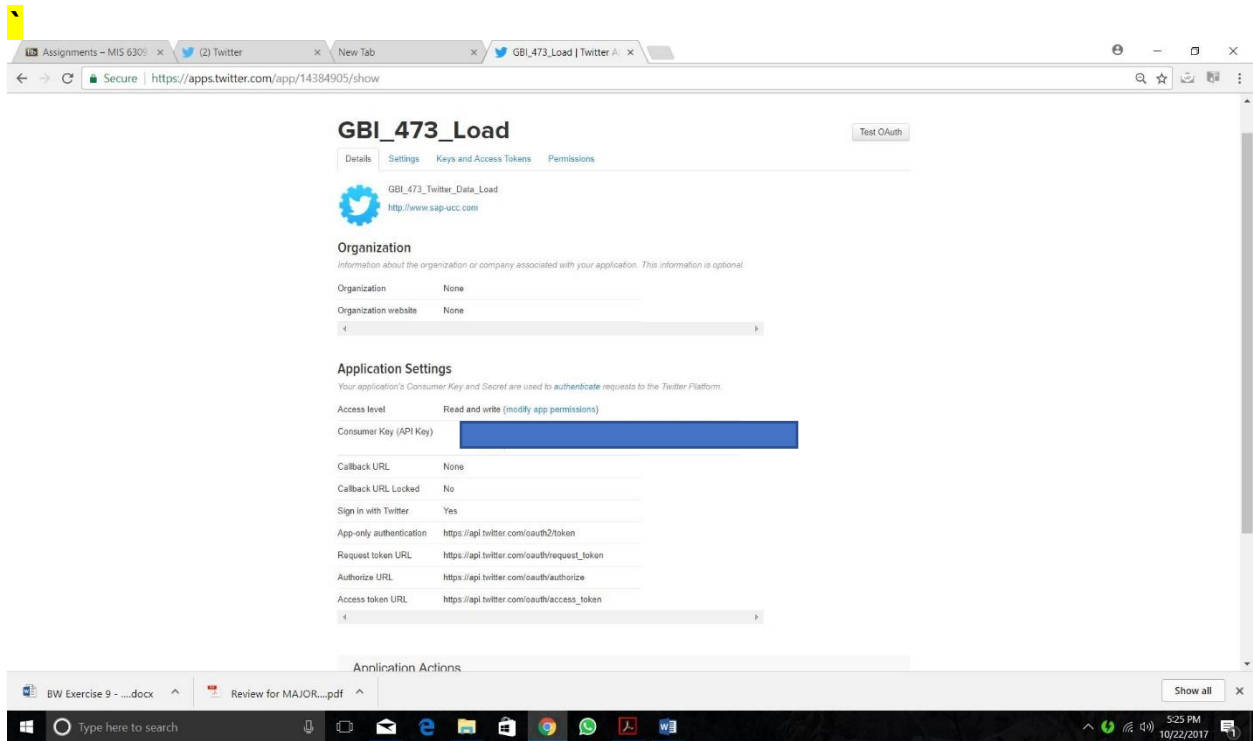**Student Name: RAVI DAWAR**

Date: 10/22/17
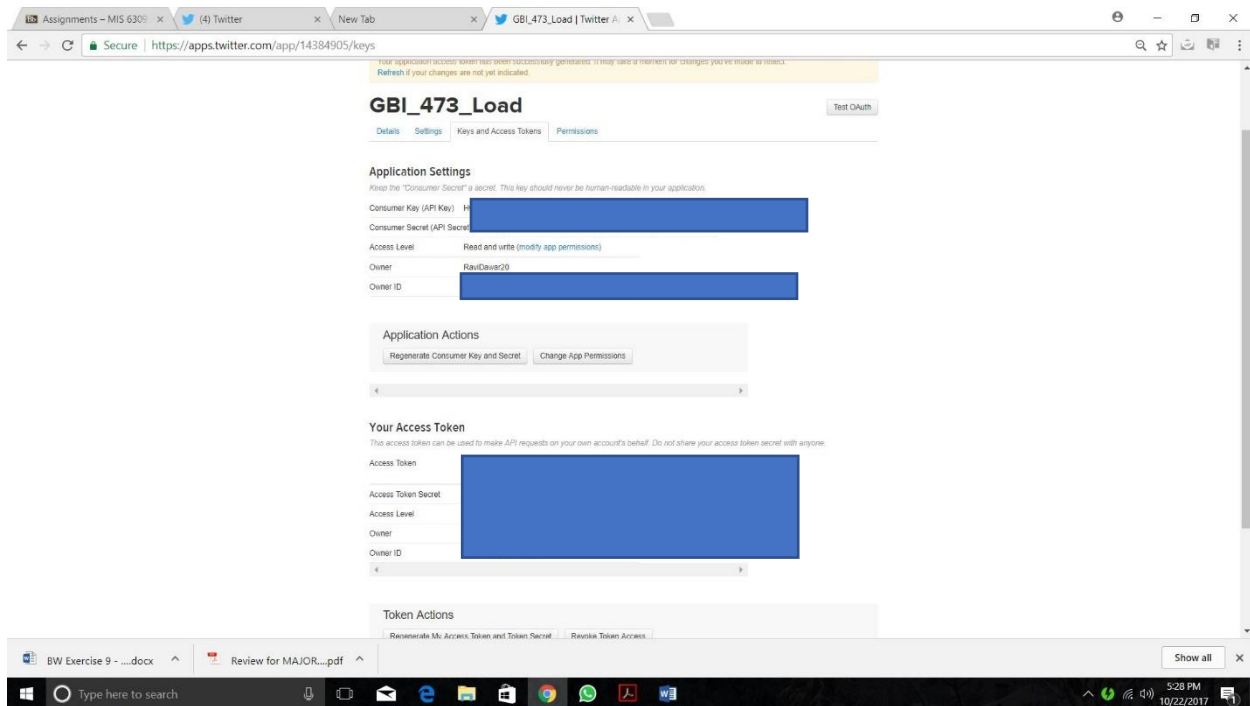
1) **Create an App for your Twitter Account**

   A. Create your Twitter application

   <mark>**Paste your screenshot here.**</mark>
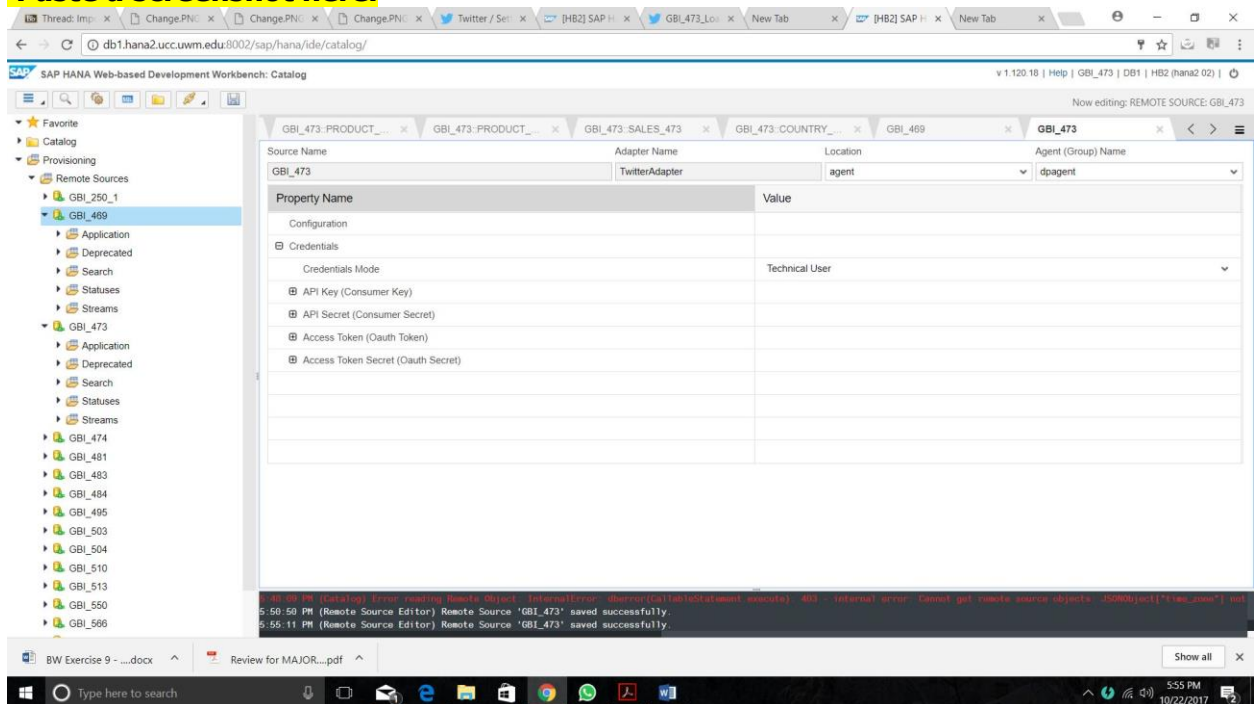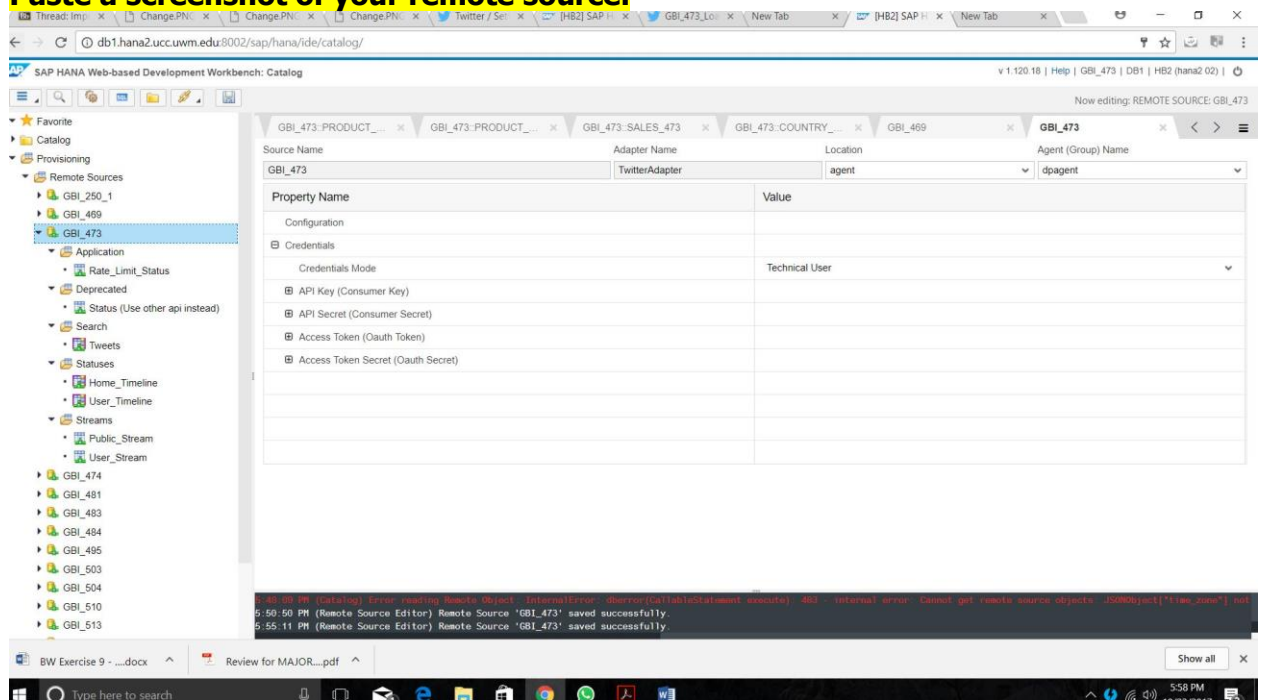
B. Create my access token

2) Configure the Twitter adapter for your SAP HANA system
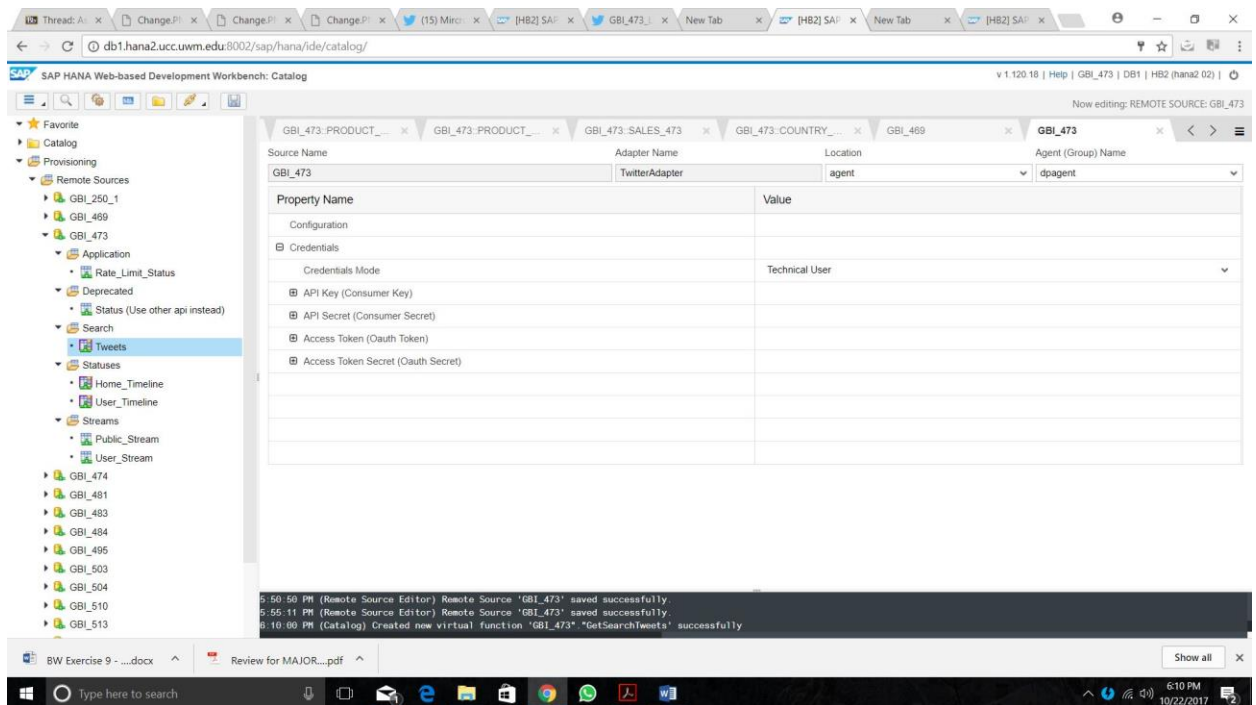## A. Create New Remote Source
Paste a screenshot here.

B. Paste a screenshot of your remote source.

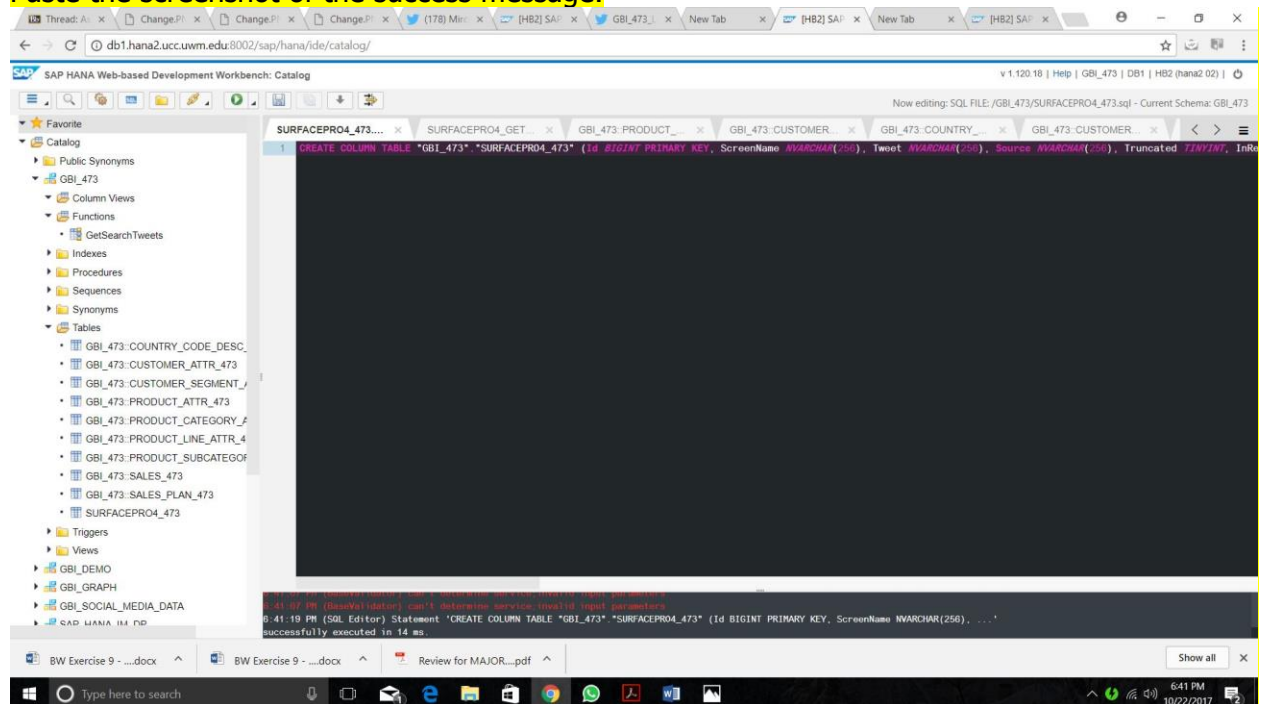## 3) Loading the twitter data using Virtual Function

A. Create New Virtual Function "GetSearchTweets"
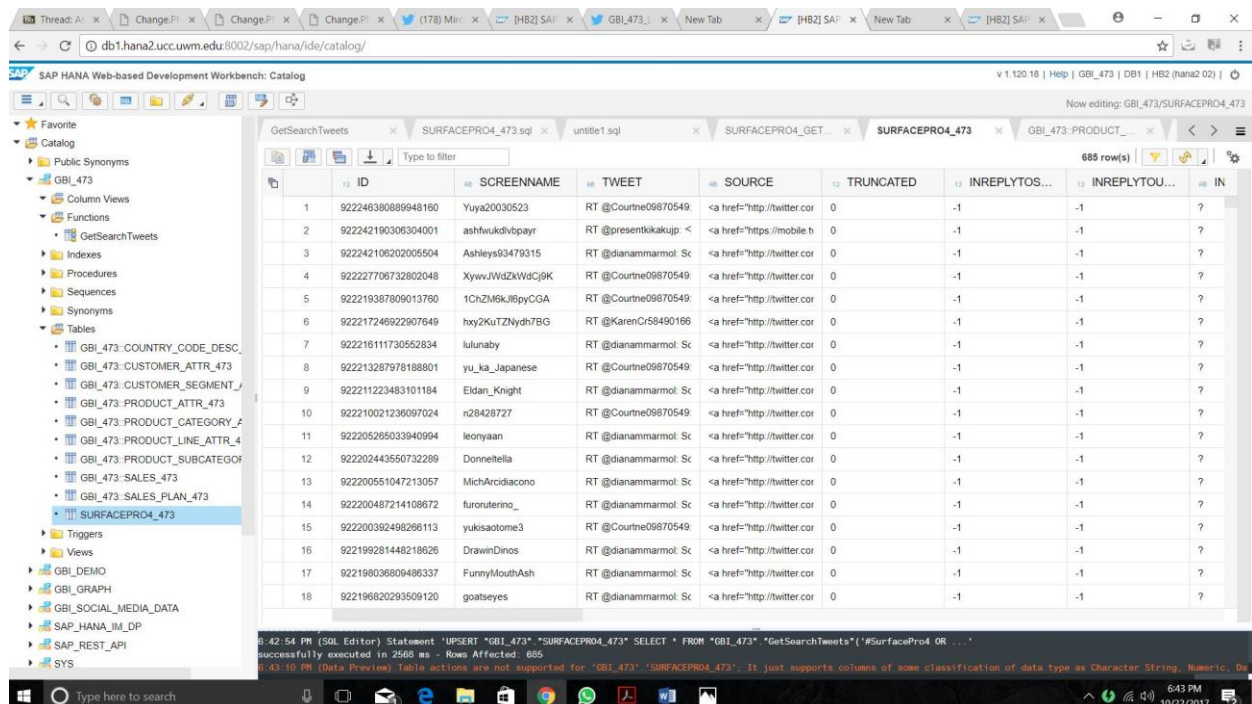Please attach your success message below.

B. Name the query as SURFACEPRO4_473.sql and Execute.
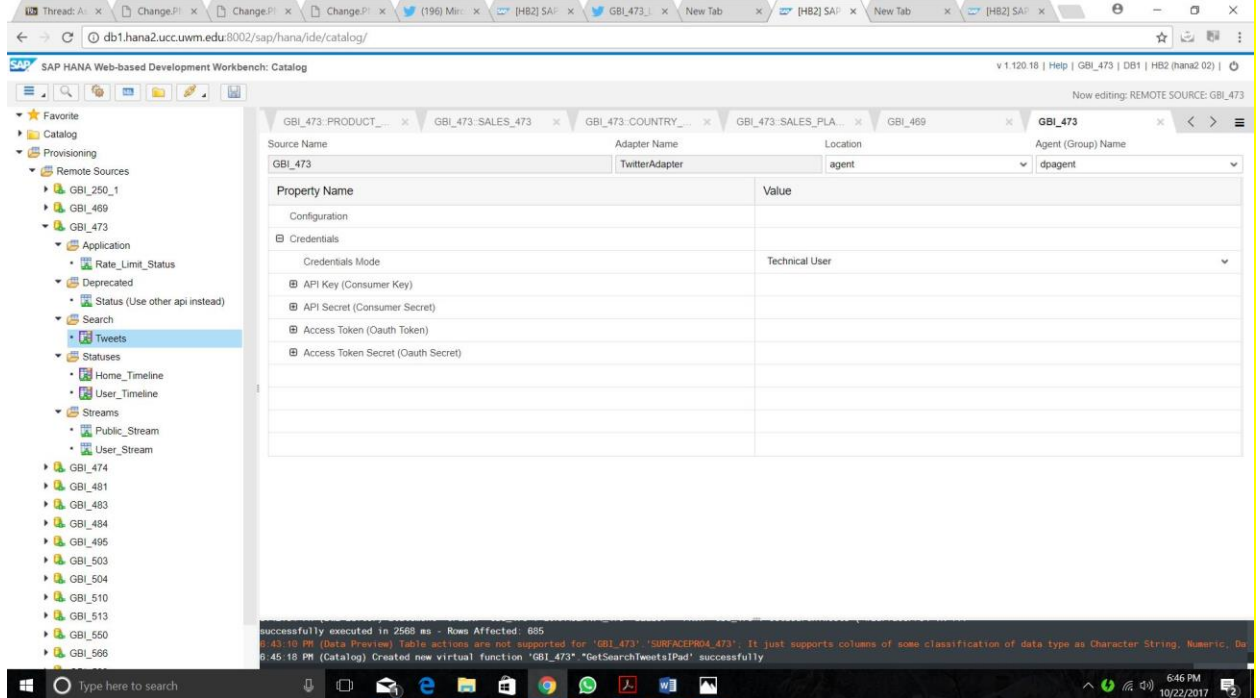   Paste the screenshot of the success message.

C. To get the search tweet into the SURFACEPRO4_473 table from GetSearchTweets table. and Open the table content.
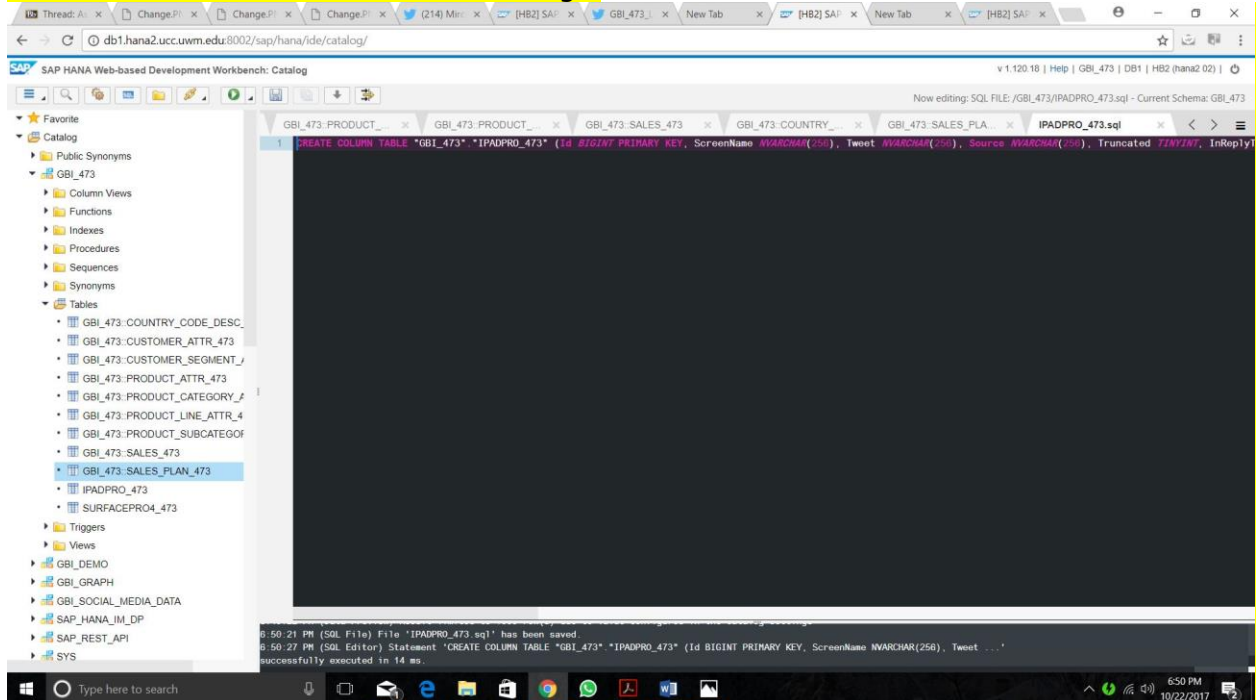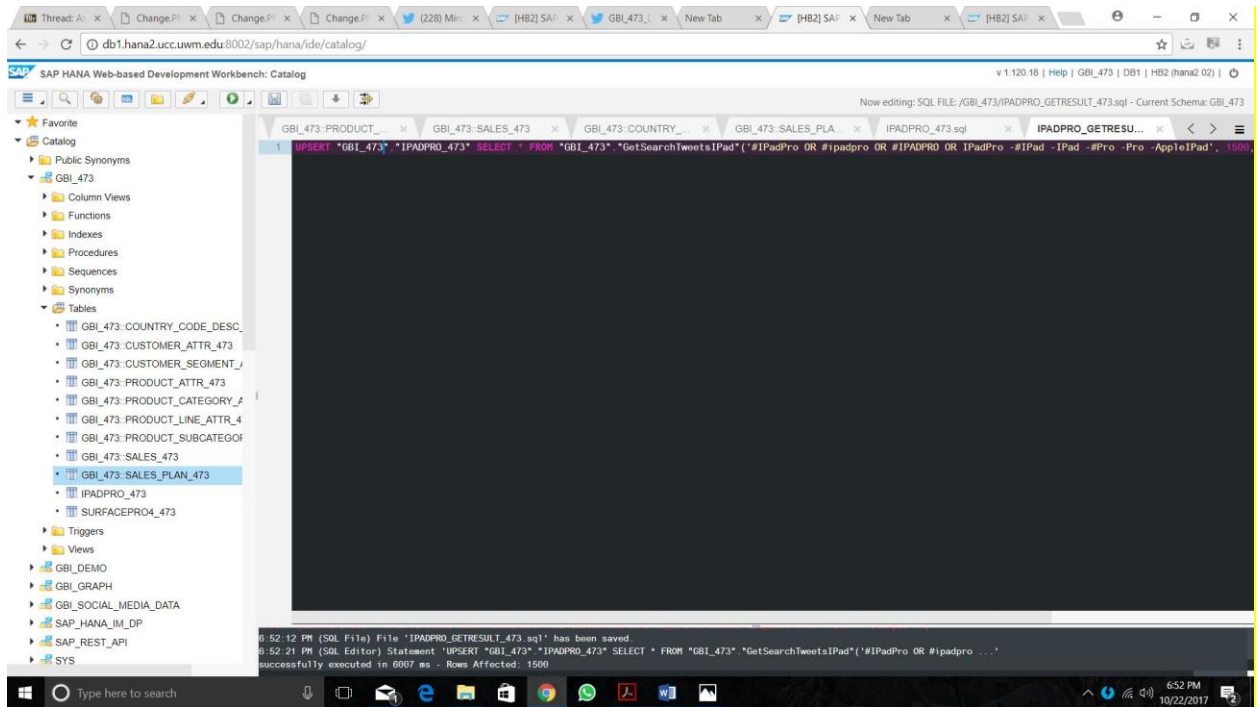
   Paste the screenshot below:

D. Create virtual function as GetSearchTweetsIPad
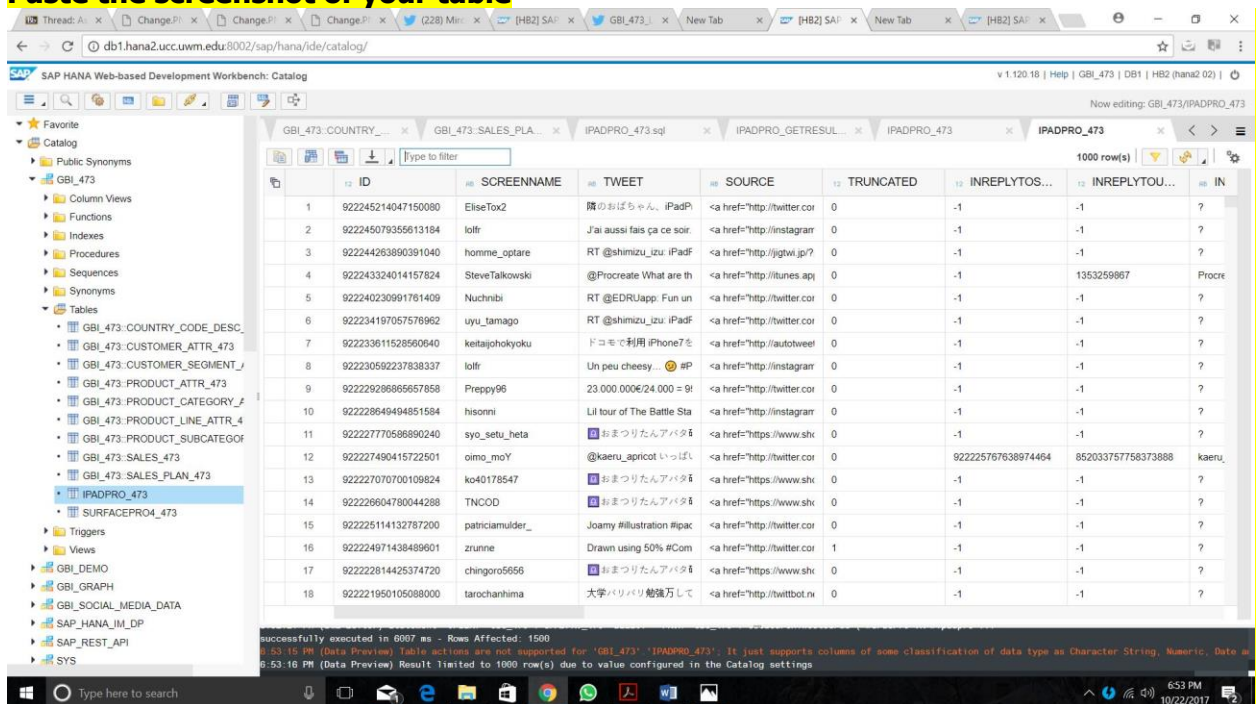Please attach your success message below.

E. Create the table for IPad Pro
Paste the screenshot of the success message.

F. To get the search tweet into the IPADPRO_xxx table from GetSearchTweetsIPad table.
Paste the screenshot of success message.

G. Right click on the table and select Open Content
Paste the screenshot of your table

4) Rate Limit Status table

A. Click on New Virtual Table, the pop up will come.
   Choose the table name as Rate_Limit_Status_XXX.

   Right click on the table and click Open Content.

   <mark>**Paste your screenshot below:**</mark>

B. Now right click on IPADPRO_xxx table and choose open content again.
   <mark>**Paste the screenshot of your table.**</mark>

C. What is the number of remaining calls in your case? Paste the screenshot below.

Answer: Number of remaining calls are 178.

D. Check the **Rate_Limit_Status** table after **GetSearchTweets** used to search tweets for **Samsung Galaxy S 8 TABLE. Paste your screenshot below:**

E. **How many calls are left for endpoint "/search/tweets"?**

Answer: 165 calls are left for endpoint "/search/tweets"

5) Fulltext Index

A. Creates a fulltext index for column "Tweet" for the table GBI_XXX.IPADPRO_010 and open content.
<mark>Paste your screenshot here.</mark>

B. Create a Fulltext index for **Surface Pro 4 and open content.**
<mark>Paste your screenshot here</mark>

C. Custom Dictionary for IPadPro
Paste a screenshot of your dictionary along with the status message.
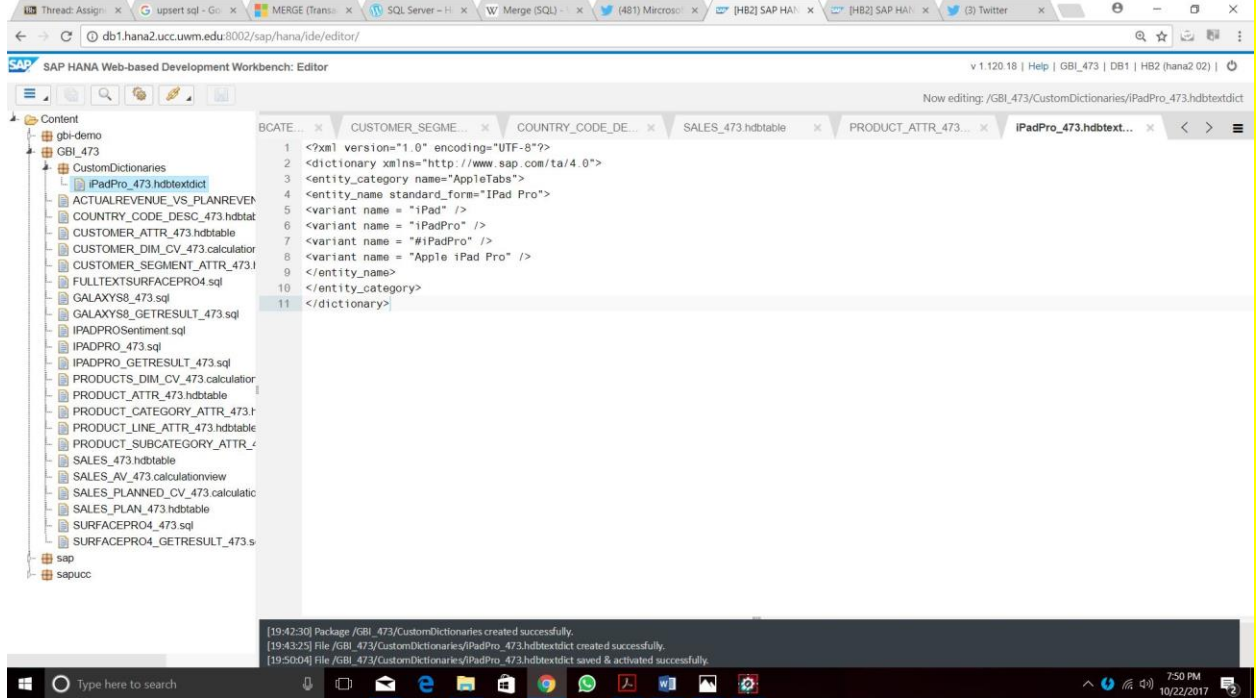
D. Create CustomConfig_###.hdbtextconfig and Save the file.
What is the status message?
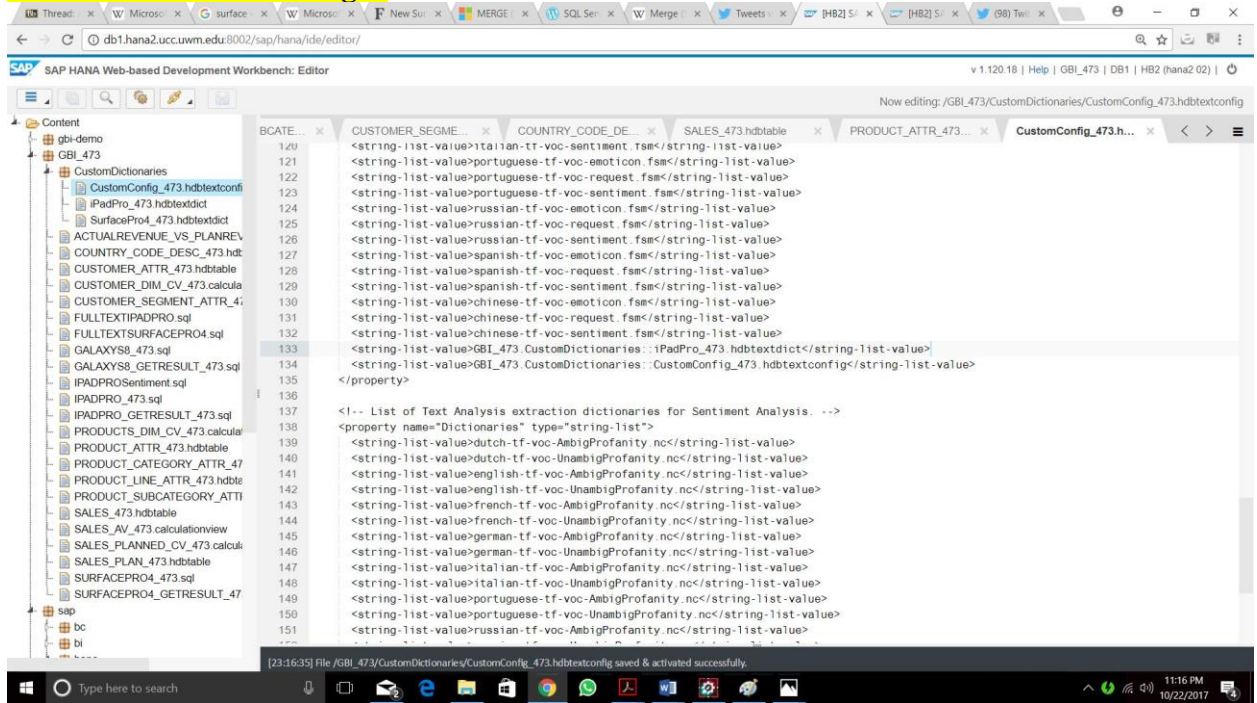
E. Create a custom dictionary for Surface Pro 4 and add
<string-list-value>GBI_473.CustomDictionaries::SurfacePro4_473.hdbtextdict</string-list-value> in CustomConfig_###.hdbtextconfig

<mark>Paste the screenshot of your configuration file along with the status message.</mark>

E.1

E.2

F. Recreate the fulltext indexes with the following statements

For IPADPRO : CREATE FULLTEXT INDEX "GBI_473"."IPadPro_Sentiment_473" ON "GBI_473"."IPADPRO_473" (TWEET)

TEXT ANALYSIS ON

LANGUAGE COLUMN "ISOLANGUAGECODE"

LANGUAGE DETECTION ('EN','FR','DE','ES','ZH')

CONFIGURATION 'GBI_473.CustomDictionaries::CustomConfig_473';
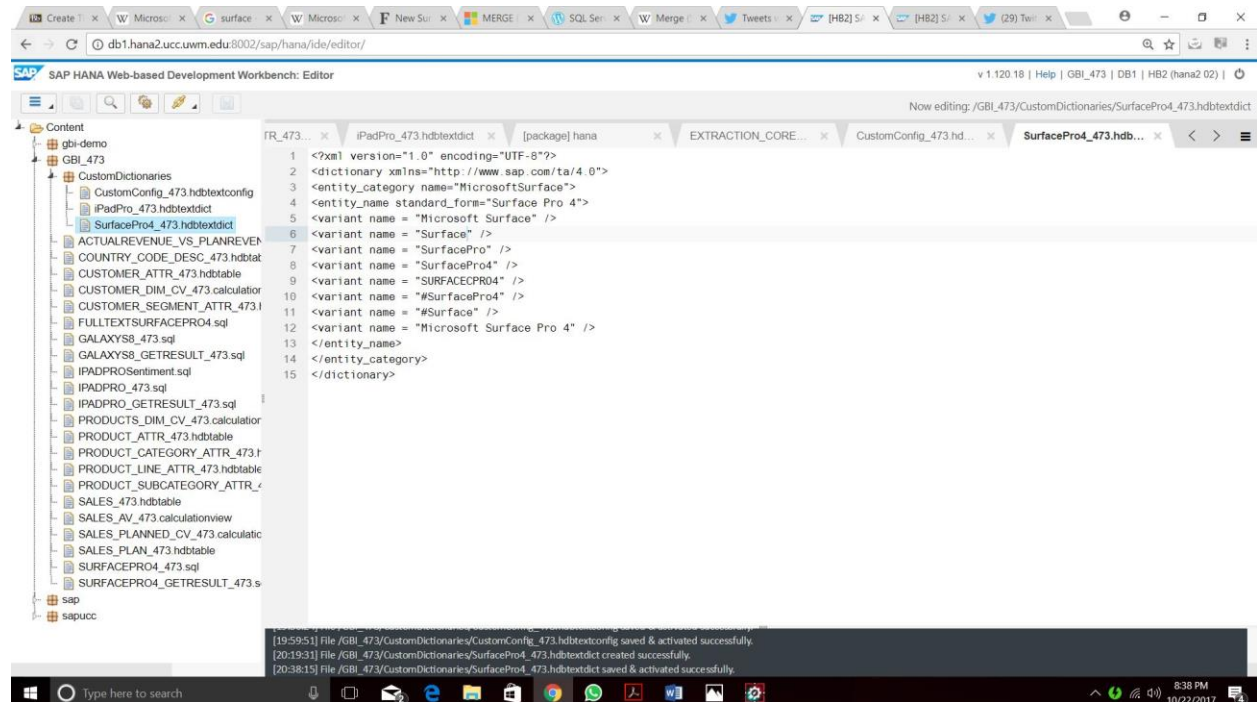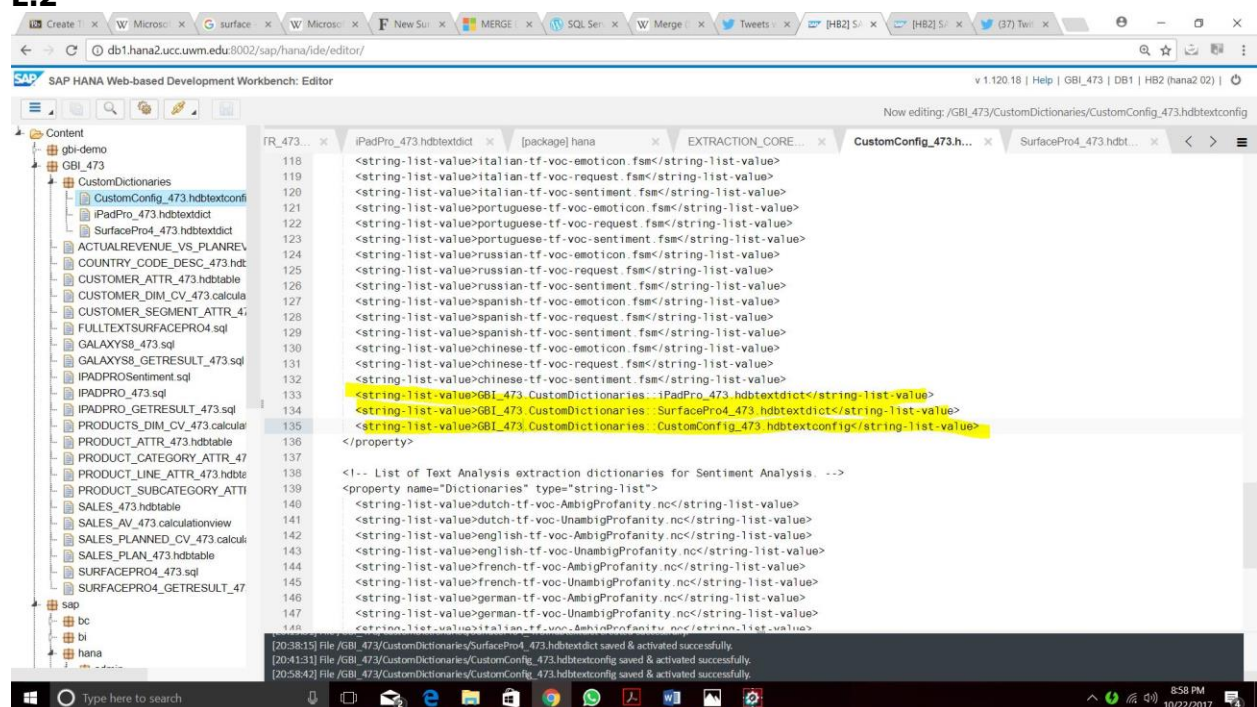
And

For SurfacePro 4:

CREATE FULLTEXT INDEX "GBI_473"."SurfacePro4_Sentiment_473" ON "GBI_473"."SURFACEPRO4_473" (TWEET)
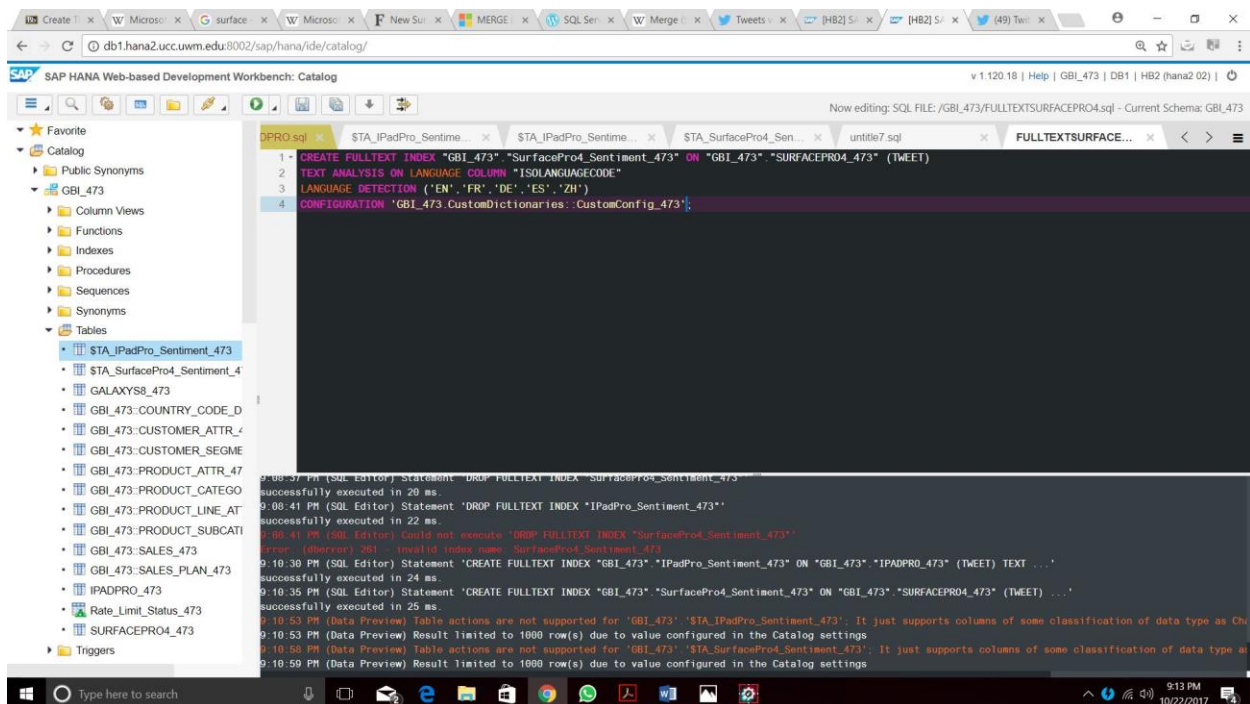
TEXT ANALYSIS ON

LANGUAGE COLUMN "ISOLANGUAGECODE"

LANGUAGE DETECTION ('EN','FR','DE','ES','ZH')

CONFIGURATION 'GBI_473.CustomDictionaries::CustomConfig_473';

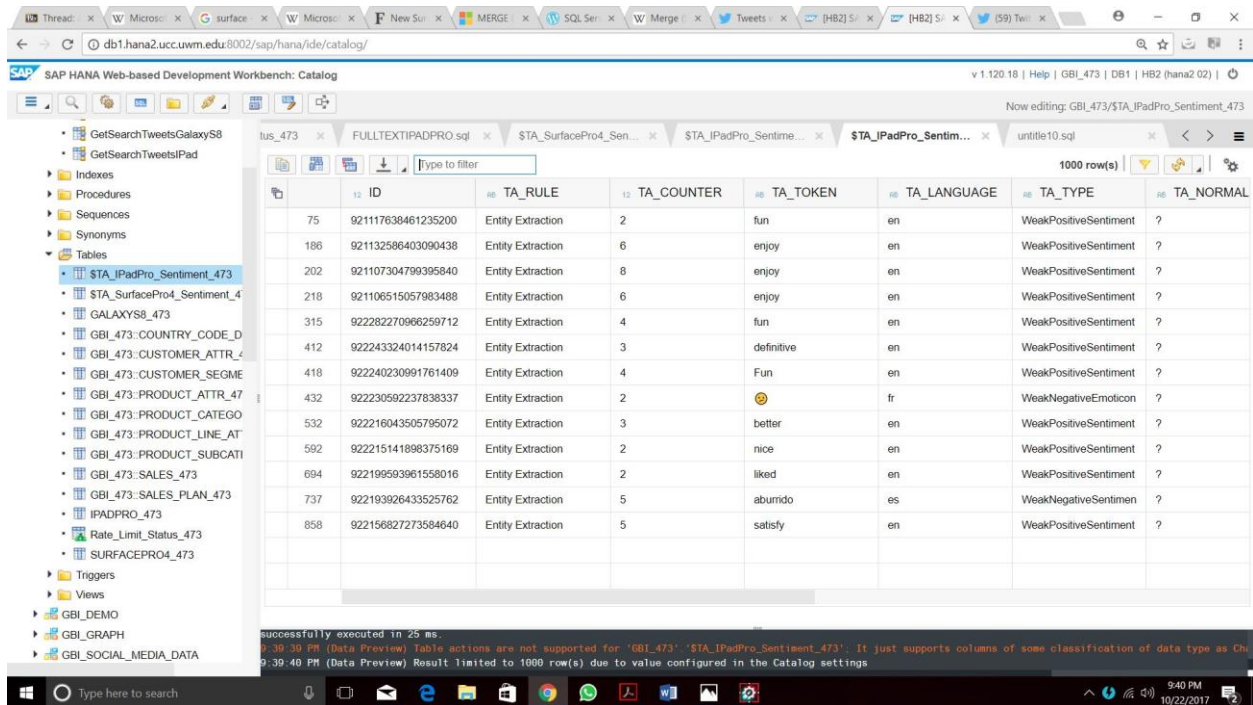==Paste your screenshot of success massage here.==

"$TA_iPadPro_Sentiment_###". Choose **Open Content**

"TA_TYPE" and enter "Weak" into the filter field.

G.1) Paste your screenshot here.

SQL console and copy and paste the following statement

delete from "GBI_473"."$TA_IPadPro_Sentiment_473" where ("TA_TOKEN" = 'fun' or "TA_TOKEN" ='enjoy' OR "TA_TOKEN" ='definitive' or "TA_TOKEN" ='Fun' OR "TA_TOKEN" ='better' or "TA_TOKEN" ='nice' or "TA_TOKEN" ='liked' or "TA_TOKEN" ='aburrido' or "TA_TOKEN" ='satisfy' or "TA_TOKEN" ='☹')

AND "TA_TYPE" IN ('WeakPositiveSentiment','WeakNegativeEmoticon','WeakNegativeSentiment');

G.2) Execute SQL command . Paste your screenshot here.
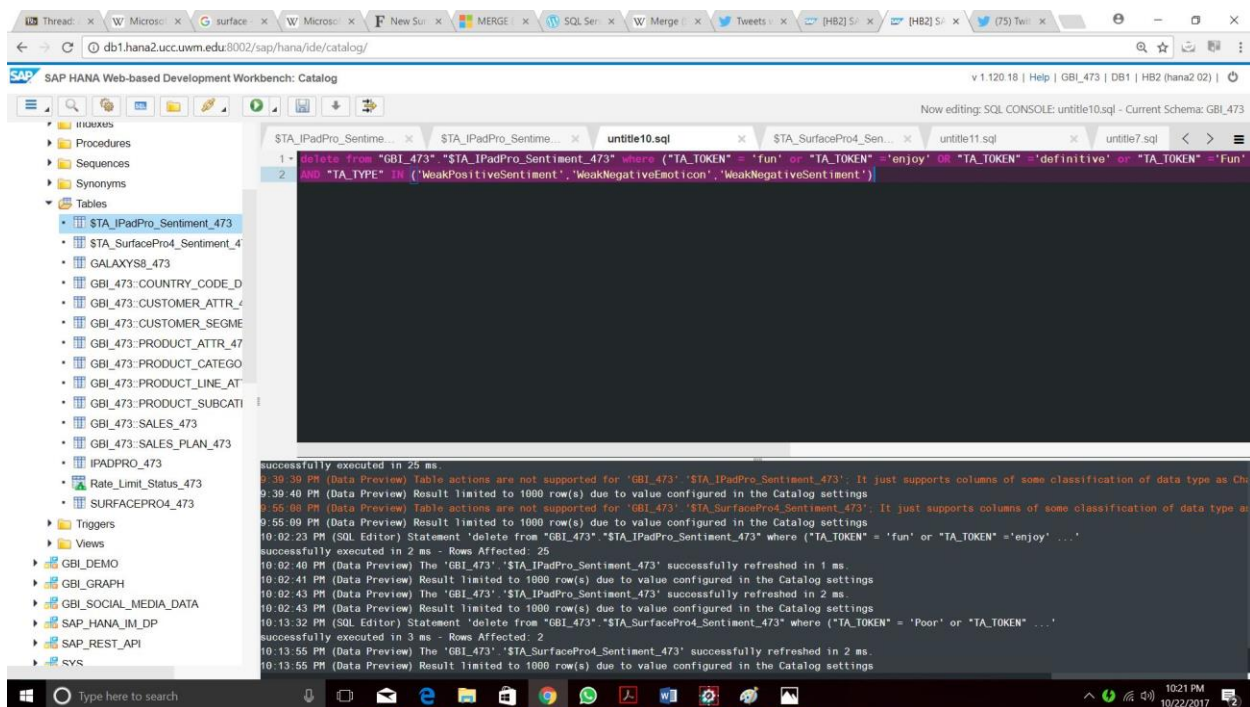
G.3) Open content IpadPro_sentiment after sql command executed. Paste your screenshot here.
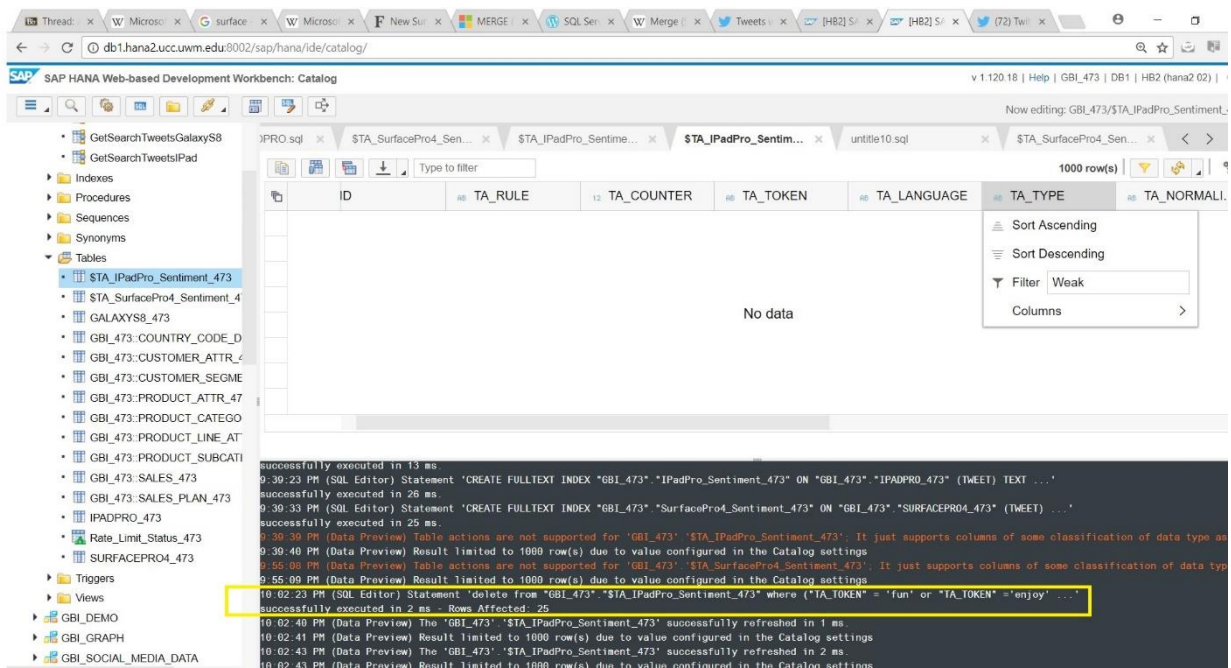
H. "$TA_SurfacePro4_Sentiment_###". Choose Open Content.
"TA_TYPE" and enter "Negative" into the filter field

H.1) <mark>**Paste your screenshot here.**</mark>

SQL console and copy and paste the following statement

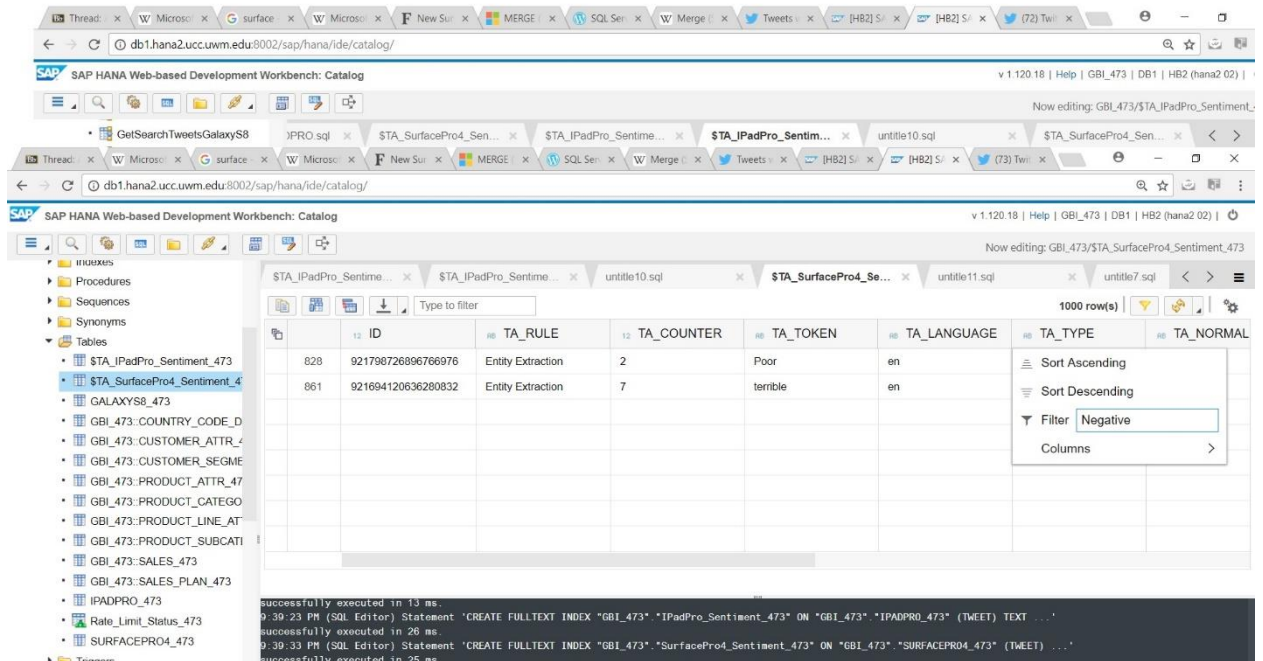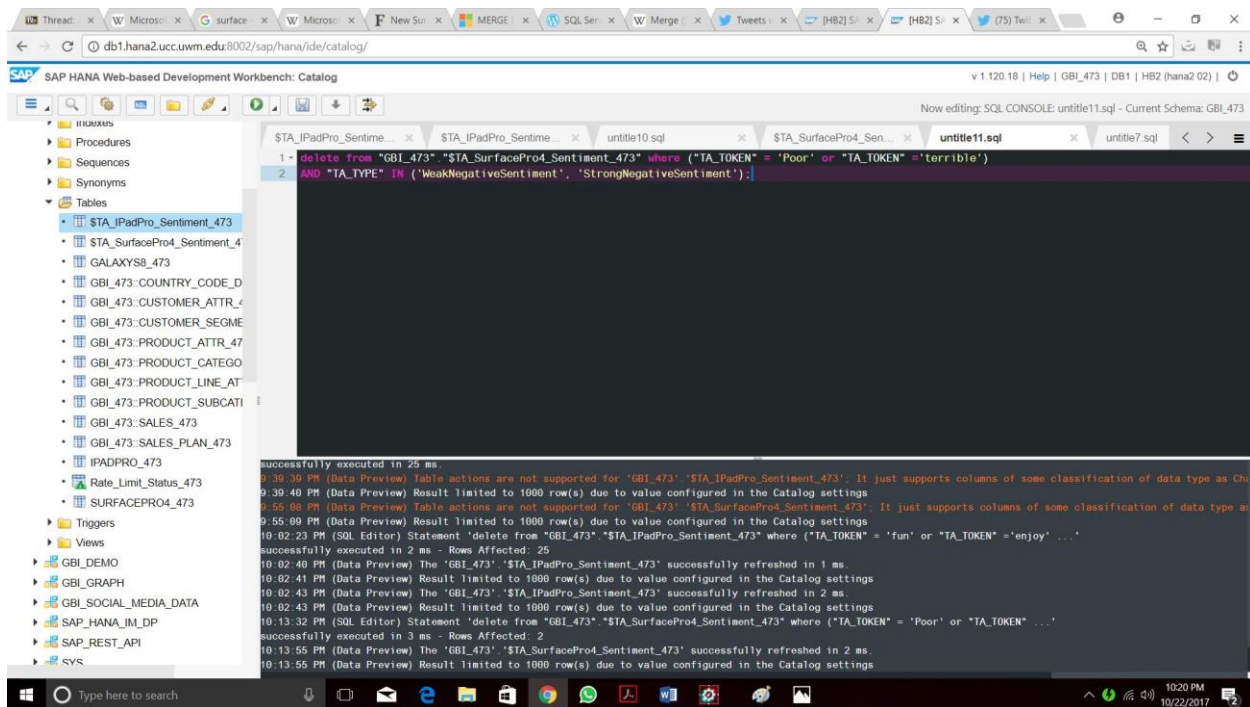**delete from "GBI_473"."$TA_SurfacePro4_Sentiment_473" where ("TA_TOKEN" = 'Poor' or "TA_TOKEN" ='terrible')**

AND "TA_TYPE" IN ('WeakNegativeSentiment', 'StrongNegativeSentiment');

H.2) **Execute SQL command .**<mark>**Paste your screenshot here.**</mark>

H.3) **Open content __SurfacePro4_sentiment__ after sql command executed. <mark>Paste your screenshot here.</mark>**