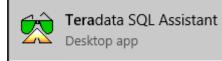


Teradata Connection

This tutorial assumes you have access to the University of Arkansas VMWare client or the Remote desktop client for participating universities (access can be requested from the University of Arkansas at <u>https://walton.uark.edu/enterprise/</u>. The intent of this exercise is to extract KPI data from the Dillard's 2016 dataset to an Excel file in order to load the information into an application of your choice. Questions can be directed to Ron Freeze at <u>rfreeze@walton.uark.edu</u>.

NOTE: the data used during this workshop should not be downloaded to your personal drives and should remain on the Remote Desktop S: drive provided by the University of Arkansas. This is due to our agreement with the data providers.

1. From the Desktop or Start Menu, search for and open the software Teradata SQL Assistant. You will see a Windows similar to the below screenshot.



 Copy and paste the query below onto the Query window to access the UA_Dillards_2016 and click on the "footsteps" execute button

DATABASE ua dillards 2016;

Image: Construction	File Edit View Tools Window Help ④ 008C - 《테그 같 교 3 ※ 대 전 가 안 감 원 및 실 환 區 환 종 왕 본 4 대로 전 위 및 그 표 전 20 >> 표 표 (~) /* 표 유 슈 슈 볼 식 이 가 는 • 볼 대 제 표 고 Lu I 또 또 표 표 I 께 된 # (2) Query	
○ ● ● ● ≫ ● 臣 语 (→ / + 臣 応 款 益 単 4 = ● 4 = ● ▶ 4 ● , ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	□ ● ● 図 ≫• □ 理 ⊑ (+) /* 巻 佘 淼 淼 繰 編 び ▶ と ● 🚽 强 開 吾 Σ 🖬 [11] 常 睅 圖 👩 甌 井	: m A. H. H. H. M. H. H. M. H. H. M. H. H. M. H. H. M. H. M. H. M. H. M. H. M. H. M. H. H. H. M. H. H. M. H. H
○ ● ● ● ≫ ● 臣 语 (→ / + 臣 応 款 益 単 4 = ● 4 = ● ▶ 4 ● , ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	□●●●∞ ∞ □ 理 (+) /* 差 佘 ☆ ▲ ● ↓ ● ↓ ● ↓ ● ↓ ◎ ↓ ☆ ■ 第 至 Ⅲ Ⅲ 常 图 ■ #	: m A. H. H. M. M. H. M. M. M. M. M
Covery	<u> </u>	
Istory Source Elapsed Rows Result Notes SQL Statement 100302017 16.41.43 Waten College Teradata 000.0019 7393000 DATABASE us_dillards_2016; 100302017 16.34.33 Waten College Teradata 00.006 225 DATABASE us_dillards_2016;	(D) Query	
Istory Source Elapsed Rows Result Notes SQL Statement 100302017 16.41.43 Waten College Teradata 000.0019 7393000 DATABASE us_dillards_2016; 100302017 16.34.33 Waten College Teradata 00.006 225 DATABASE us_dillards_2016;		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 000:019 733000 DATABASE us_dilards_2016; DATABASE Logical and a context of the		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 000:019 733000 DATABASE us_dilards_2016; DATABASE Logical and a context of the		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 000:019 733000 DATABASE us_dilards_2016; DATABASE Logical and a context of the		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 000:019 733000 DATABASE us_dilards_2016; DATABASE Logical and a context of the		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 000:019 733000 DATABASE us_dilards_2016; DATABASE Logical and a context of the		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 000:019 733000 DATABASE us_dilards_2016; DATABASE Logical and a context of the		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 000:019 733000 DATABASE us_dilards_2016; DATABASE Logical and a context of the		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 000:019 733000 DATABASE us_dilards_2016; DATABASE Logical and a context of the		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 000:019 733000 DATABASE us_dilards_2016; DATABASE Logical and a context of the		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 000:019 733000 DATABASE us_dilards_2016; DATABASE Logical and a context of the		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 000:019 733000 DATABASE us_dilards_2016; DATABASE Logical and a context of the		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <		
Date / Time Source Elapsed Rows Result Notes SQL Statement 10302017 16:4143 Waten College Teradata 00:00:19 730000 DATABASE us_dillarde_2016; DATABASE Log Allarde_2016; Log Allarde_2016; DATABASE Log Allarde_2016; <	4	
10/30/2017 1641:43 Walton College Teradata 00:00:19 793000 DATABASE ua_dillards_2016: 10/30/2017 16:36:31 Walton College Teradata 00:00:06 25 DATABASE ua_dillards_2016;	4	
10/30/2017 1641:43 Walton College Teradata 00:00:19 793000 DATABASE ua_dillards_2016: 10/30/2017 16:36:31 Walton College Teradata 00:00:06 25 DATABASE ua_dillards_2016;	د. History	
10/30/2017 1641:43 Walton College Teradata 00:00:19 793000 DATABASE ua_dillards_2016; 10/30/2017 16:36:31 Walton College Teradata 00:00:06 25 DATABASE ua_dillards_2016;	4 History	
10/30/2017 16:36:31 Walton College Teradata 00:00:06 25 DATABASE ua_dillards_2016;		SOI Statement
	Date / Time Source Elapsed Rows Result Notes SQL Statement	
	1 10/30/2017 16:41:43 Walton College Teradata 00:00:19 793000 DATABASE ua_dillards_2016;	BASE ua_dillards_2016;
10202017 1025 22 Michael Cellere Translate 00.00.01 1 2004 DATABASE un fillerate 2010	Date / Time Source Elapsed Rows Result Notes SQL Statement 1 10/30/2017 16.41.43 Walton College Teradata 00 00 19 733000 DATABASE ua_dillards_2016;	BASE ua_dillards_2016;
10/30/2017 16:35:23 Walton College Feradata 00:00:01 1 3804 DATABASE 0a_dillards_2016;	Date / Time Source Elapsed Rows Result Notes SQL Statement 1 103/02017 15 41-43 Velton College Teradtai 000019 793000 DATABASE us_dillards_2016; DATABASE us_dillards_2016; 1 003/021 15 433 Velton College Teradtai 00006 25 DATABASE us_dillards_2016;	BASE ua_dillards_2016; BASE ua_dillards_2016;
	Date / Time Source Elapsed Rows Result Notes SQL Statement 1 10/00/2017 164143 Walton College Teradatai 00:0019 733000 DATABASE ua_dillards_2016;	BASE ua_dillards_2016; BASE ua_dillards_2016;
	Date / Time Source Elapsed Rows Result Notes SQL Statement 1 10/30/2017 164143 Velton College Trandata 000019 793000 DATABASE us_dillards_2016; SQL Statement 2 10/30/2017 16331 Velton College Trandata 0000 19 793000 DATABASE us_dillards_2016;	BASE ua_dillards_2016; BASE ua_dillards_2016;
	Date / Time Source Elapsed Rows Result Notes SQL Statement 1 103/02017 15 41-43 Velton College Teradtai 000019 793000 DATABASE us_dillards_2016; DATABASE us_dillards_2016; 1 003/021 15 433 Velton College Teradtai 00006 25 DATABASE us_dillards_2016;	BASE ua_dillards_2016; BASE ua_dillards_2016;
	Date / Time Source Elapsed Rows Result Notes SQL Statement 1 103/02017 15 41-43 Velton College Teradtai 000019 793000 DATABASE us_dillards_2016; DATABASE us_dillards_2016; 1 003/021 15 433 Velton College Teradtai 00006 25 DATABASE us_dillards_2016;	BASE ua_dillards_2016; BASE ua_dillards_2016;

File Edit View Tools Window Help	
: 🐠 ODBC 🖙 🐠 🗅 🗁 🛃 🥔 🐒 🗈 🙈 😕 😢 😭 👫 🦓 🐙	1 🔁 🗞 🔇 🌾 🎺 🌒 🖃 🔁 🔘 🖕
: 🗔 🖲 📧 📨 · i 亘 亘 (…) /* 端 🖧 Ăa i 🌉 🖧 i 😈 🕨 🛵 •	, · · · · · · · · · · · · · · · · · · ·
(D) Query	- =
DATABASE us dillards 2016;	

3. A Select Data Source window will pop up to ask you the credentials to access the Dillard's database. Navigate to the **Machine Data Source** tab on top. Then double-click on **Walton College Teradata** (as shown to the right).

- 4. Click OK
- 5. Here you will see another pop-up window called **Teradata Database Connect...**
- 6. Enter the **Username**: and **Password**: provided by your instructor. Click **OK**
- Congratulations! Now you are connected to the UA_Dillards_2016 database and ready to extract the data needed for your assignment.

SQL Query to extract data

The Dillard's 2016 dataset has approximately 450 million rows. We need to narrow the data extraction down to only the KPI's we are interested in reviewing. To do this, we will run a query to extract transaction data from the TRANSACT

table and associated identifying information (Store, City, State & Zip Code) from the STORE table.

- 8. Running the Query
 - a. Navigate to the query window and delete any current code
 - b. Copy and paste the SQL query below into the query window

&

9. Click the "footsteps" execute button

on the menu bar.

The final query should take approximately 30 seconds to 1 minute to run depending on the connection from your computer. You should have 298,516 rows of records in the final selection. Your result table should look like the picture below and the records can be verified on this screen.



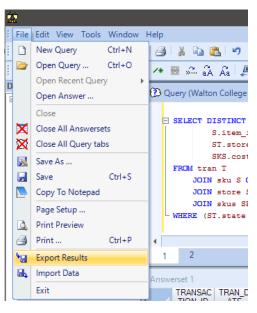
Teradata Database (Connect	×
	ess: 130.184.26.161	•
Authentication		
Use Integrated	Security	
Mechanism:	•	
Parameter:		Change
Username:	*your given username*	
Password:	******	
	Teradata Wallet String	
Optional		
Default Database:		
Account String:		
ОК	Cancel	Help



Export result table in a text file

Now we will export to a file in order to provide access to the application of our choice

- 11. Navigate to File on the top bar, and select Export Results...
- 12. Now click the "footsteps" execute button again to have Teradata run the query again and export the result directly.
- 13. You will now see a pop up window, prompting you for the location you want to save
- 14. Select your desired location, the File name: and make sure you Save as type: Delimited Text [ANSI] (*.txt).



15. **IMPORTANT**: after you click Save, Teradata will take a

while to export everything. It will take about 3 minute or less depending on your computer, since there are 298,516 rows of data to be exported.

	FROM Tra INNER JOIN ON tra WHERE tra GROUP BY to ORDER BY to	ansact store ssact.store = an_type = 'p' ran_date, cit ran_date;	= Store.	store e, Zip_	Code, stor	e.store	, Store.Stor	e, SUM(tran_amt) AS amount	
	TRAN_DATE	CITY	Z	P_CODE	STATE	STORE	amount		
1	1/1/2014	JACKSONVILLE			FL	511	5,145.40		
2	1/1/2014	LONGVIEW	75	605	TX	748	79,596.14		
3	1/1/2014	MIDLAND	79	705	TX	746	77,607.09		
	1/1/2014	HUNTSVILLE	35	801	AL	460	74,033.21		
	1/1/2014	CEDAR PARK	78	613	TX	735	79,348.10		
	1/1/2014	HUMBLE	77	338	TX	780	54,484.41		
	1/1/2014	AURORA	80	012	CO	982	29,735.11		
	1/1/2014	ABILENE	79	606	TX	744	66,863.06		
		LAKE HAVASU CI	ITY 86	404	AZ	912	20,109.53		
	1/1/2014	CARE HAVADU CI			1.4	136	63,927.25		
		ALEXANDRIA		301	LA	400	63,927.25		
)	1/1/2014		71	301 806	NC	508			
)	1/1/2014 1/1/2014	ALEXANDRIA	71 28	806	1.7.	508			
)	1/1/2014 1/1/2014 1/1/2014	ALEXANDRIA ASHEVILLE	71 28 0 37 63	806 129 117	NC TN MO	508 427 301	4.734.55 57,252.94 109,337.12		
)	1/1/2014 1/1/2014 1/1/2014	ALEXANDRIA ASHEVILLE MURFREESBOR(71 28 0 37 63	806 129	NC TN	508 427 301	4.734.55 57,252.94		
)	1/1/2014 1/1/2014 1/1/2014	ALEXANDRIA ASHEVILLE MURFREESBOR(71 28 0 37 63	806 129 117	NC TN MO	508 427 301	4.734.55 57,252.94 109,337.12		
Hi	1/1/2014 / 1/1/2014 / 1/1/2014 / 1/1/2014 / story ate /	ALEXANDRIA ASHEVILLE MURFREESBOR(ST. LOUIS	71 28 0 37 63	806 129 117	NC TN MO	508 427 301	4.734.55 57,252.94 109,337.12	SQI Statement	lepat
) 1 2 3 Hi D	1/1/2014 / 1/1/2014 / 1/1/2014 / 1/1/2014 / 1/1/2014 / story ate / Sour	ALEXANDRIA ASHEVILLE MURFREESBOR(ST. LOUIS	71 28 0 37 63	806 129 117 Resul	NC TN MO	508 427 301	4,734,55 57,252,94 109,337,12	SQL Statement Store Zip code, Store State, Store Store, SUM(1	Lengt 263



✓ ひ Search ERP3

✓ All Files

Tools 🔻 Open 💌

Size

57,707 KB

?

BEE 🔻 🔲

Cancel

16. After Teradata finishes saving the result table as txt file in your folder, go to the location that you saved it to make sure it exports successfully. In this example, the file has been named DillardsTUN-Export-KPIs.txt

Name	Date modified	Туре	Size
DillardsTUN-Export-KPIs	5/15/2018 8:23 AM	Text Document	12,267 KB

→ ~ ↑ 📙 > Network > mydocs.uark.edu > mydocs > hqtruong > Documents > MIS > ERP3

Date modified

Туре

10/30/2017 9:22 AM Text Document

Import Text file into Excel

Organize 👻 New folder

🖈 Quick access

Desktop

Pictures

💻 This PC

💣 Network

Name

File name: SQLAExport

SQLAExport

- 17. Open MS Excel.
- Select File -> Open and Navigate to your .txt file folder
- 19. Choose the file format as **All Files** (as shown below)
- 20. Select your file
- 21. Click **Open**.
- 22. You will now see a window called **Text Import Wizard**, with different options of how you want to format your Excel file from a text file.
- 23. Accept the default settings and click **Finish** to import the file.
- 24. After couple seconds, you will now see the result is successfully imported into Excel. See next page for a screen shot.
- 25. **Save** the Excel file after you are done reviewing the data as a **.csv** comma delimited excel file

Text Import Wizard - Step 1 of 3	?	×
The Text Wizard has determined that your data is Delimited.		
If this is correct, choose Next, or choose the data type that best describes your data.		
Original data type		
Choose the file type that best describes your data:		
Delimited - Characters such as commas or tabs separate each field. Fixed width - Fields are aligned in columns with spaces between each field.		
O Fixed whith - Fields are aligned in columns with spaces between each field.		
Start import at row: 1 File origin: 437 : OEM United States		~
My data has headers.		
$\label{eq:preview} Preview of file \mbox{w} docs.uark.edu\mbox{w} docs\mbox{h} qtruong\mbox{D} ocuments\mbox{M} IS\mbox{ERP3}\mbox{SQLAExport.txt}.$		
1 TRAN_DATETRAN_TYPEORIG_PRICETRAN_AMTITEM_IDDEPTBRAND_NAMESTORECITY		^
2 9/29/2014P55.0055.0018372686225Wacoal403FAYETTEVILLEAR727031.00 3 5/1/2014P68.0059.8113860125244?403FAYETTEVILLEAR727031.00		
4 9/12/2015P79.9979.9917758625771?403FAYETTEVILLEAR727031.00		
54/16/2016P95.0095.0039858277196?403FAYETTEVILLEAR727031.00	>	~
Cancel < Back <u>N</u> ext >	<u>F</u> inisl	h



	ile Hom											
A	L 👻	$:$ \times \checkmark f_x	TRAN_D	ATE								
	А	В	С	D	E	F	G	н	I.	J	к	L
1	TRAN_DATE	CITY	ZIP_CODE	STATE	STORE	amount						
2	1/1/2014	JACKSONVILLE	32225	FL	511	5145.4						
3	1/1/2014	LONGVIEW	75605	ТΧ	748	79596.14						
4	1/1/2014	HUNTSVILLE	35801	AL	460	74033.21						
5	1/1/2014	MIDLAND	79705	ТΧ	746	77607.09						
6	1/1/2014	CEDAR PARK	78613	ТΧ	735	79348.1						
7	1/1/2014	HUMBLE	77338	ТΧ	780	54484.41						
8	1/1/2014	AURORA	80012	со	982	29735.11						
9	1/1/2014	ABILENE	79606	ТΧ	744	66863.06						
10	1/1/2014	LAKE HAVASU CITY	86404	AZ	912	20109.53						