

SESSION 32: TABLEAU DESKTOP

Assignment 1

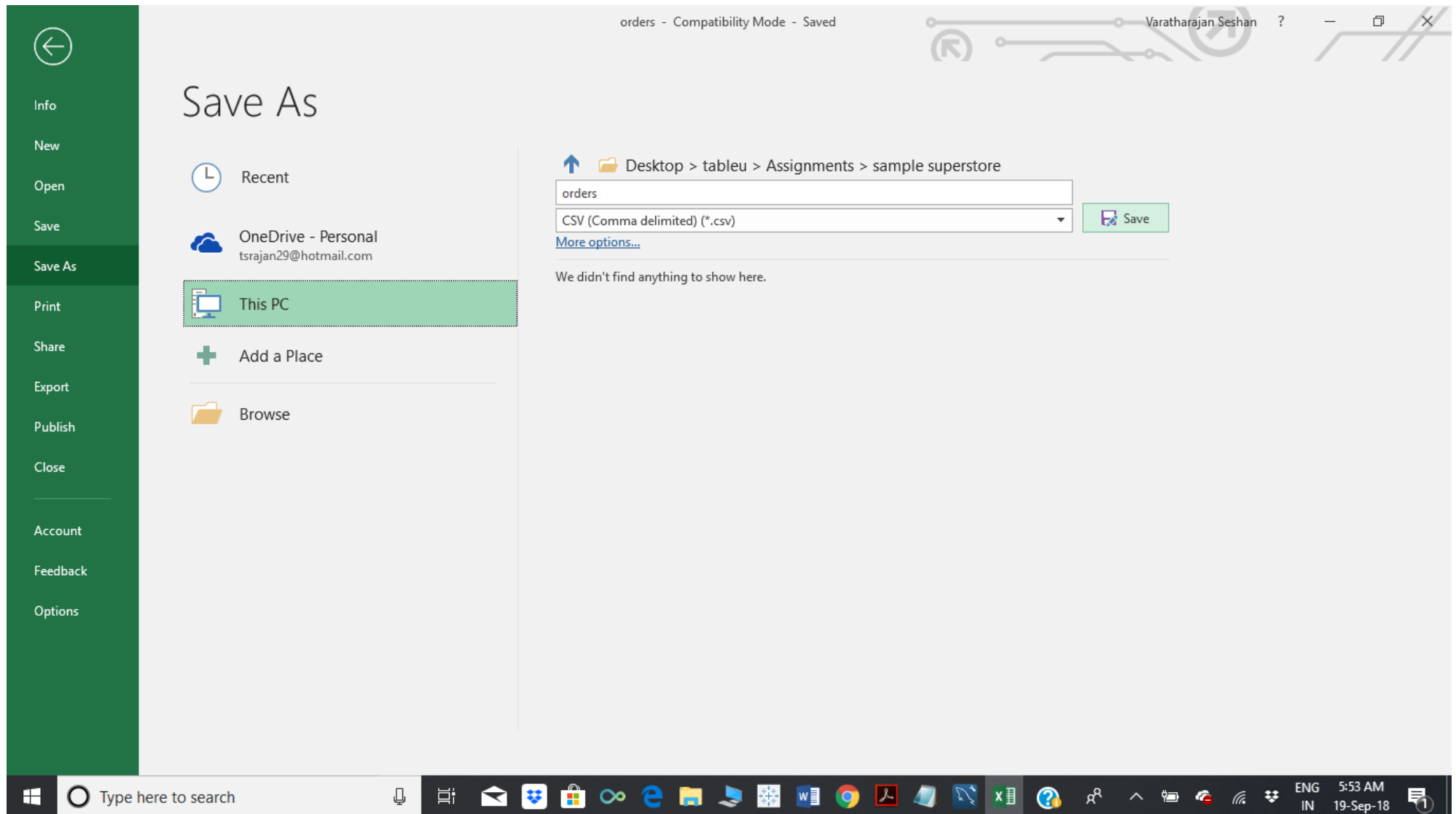
5. Problem Statement

1. Import the Super store excel data into MySQL and store the data across three tables orders, people and returns
2. Connect Tableau Desktop to MySQL database
3. Import the joined data set of the aforesaid three tables through custom SQL
4. Rename the data connection as 'my super store data'
5. Create an extract out of the data connection
6. Save the workbook as Super store dashboard. twbx

Answer: -

- 1) Download the sample super stores from the link provided by Acadgild (2014 -2017 data)
- 2) The file consists of three sheets namely orders, returns and people.
- 3) Save each sheet as comma delimited CSV files by the names orders, returns and people.
- 4) Open MySQL workbench and login to the same.
- 5) Create a global superstore schema
- 6) From global superstore schema import the individual sheets namely orders, returns and people. Step by step procedures as screen shot is given below
- 7) Login to MySQL 8.0 command line and check the database and tables are imported
- 8) Connect to Tableau Desktop and open connection

- 9) Select My SQL connection and import the global superstores
- 10) Drag orders table to the Tableau worksheet
- 11) Similarly drag other tables and perform a union of all these tables
- 12) Update and connect to the extract from live connection.
- 13) Rename the global super store file as My super store data
- 14) Create and extract connection and save the work book as super store dashboard.twbx file in the Tableau Repository workbook.
- 15) This file can be further used for other assignments as this extract contains all the required data.
- 16) Step by step procedure is captured as screen shot and shown in this file below.
- 17)



sample superstore

FileHomeShareView

Pin to Quick accessCopyPasteCutCopy pathPaste shortcutMove toCopy toDeleteRenameNew folderEasy accessPropertiesOpenSelect allSelect noneInvert selection

ClipboardOrganizeNewOpenSelect

tableu > Assignments > sample superstore

Search sample superstore

Quick access

DesktopDownloadsDocumentsPicturesAssignmentsquestionstableuWorkbooksDropboxOneDriveThis PC3D ObjectsDesktopDocumentsDownloadsMusicPicturesVideosWindows (C:)

Name	Date modified	Type	Size
orders	19-Sep-18 5:54 AM	Microsoft Excel C...	2,214 KB
people	19-Sep-18 5:55 AM	Microsoft Excel C...	1 KB
Returns	19-Sep-18 5:54 AM	Microsoft Excel C...	6 KB
Sample - Superstore	19-Sep-18 4:22 AM	Microsoft Excel 97...	3,286 KB

4 items

Type here to search

Taskbar icons: File Explorer, Edge, Word, Chrome, PDF, etc.

ENG IN 5:55 AM 19-Sep-18

. Import the Super store excel data into MySQL and store the data across three tables orders, people and returns

Tableau - Book3 [Recovered]

File Data Server Help

Connect

To a File

- Microsoft Excel
- Text file
- JSON file
- Microsoft Access
- PDF file
- Spatial file
- Statistical file
- More...

To a Server

- Tableau Server
- Microsoft SQL Server
- Oracle
- Amazon Redshift
- MySQL
- More...

Saved Data Sources

- Sample - EU Superstore
- Sample - Superstore

Open

MySQL

Server: localhost Port: 3306

Enter information to sign in to the server:

Username: root

Password:

☐ Require SSL

[Initial SQL...](#) [Sign In](#)

Discover

[Open a Workbook](#)

Training

- Getting Started
- Connecting to Data
- Visual Analytics
- Understanding Tableau
- More training videos...

Viz of the Week

[Explore viz of the week](#)

Resources

Don't miss the data conference of the year. Register for TC18

[Get Tableau Prep](#)

Blog - Manage Tableau Mobile deployments with Citrix Endpoint Management and Microsoft...

Forums

Sample Workbooks

Superstore Regional World Indicators

Windows taskbar: Type here to search, File Explorer, Edge, Word, Chrome, PDF Reader, etc.

System tray: ENG INTL, 5:01 PM, 17-Sep-18

MySQL Workbench

Local instance MySQL80

FileEditViewQueryDatabaseServerToolsScriptingHelp

Navigator

SCHEMAS

Filter objects

hello

newtrial

sakila

sys

trial

trial1

world

Query 1

Globalsuperstores - Schema

Name: Globalsuperstores

Rename References

Charset/Collation: Default Charset Default Collation

Specify the name of the schema here. You can use any combination of ANSI letters, numbers and the underscore character for names that don't require quoting.

Refactor model, changing all references found in view, triggers, stored procedures and functions from the old schema name to the new one.

The character set and its collation selected here will be used when no other charset/collation is set for a database object (it uses the DEFAULT value then). Setting

Schema

ApplyRevert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	05:31:25	DROP DATABASE 'globalstore_schema'	3 row(s) affected	1.906 sec

Administration

Schemas

Information

Schema: hello

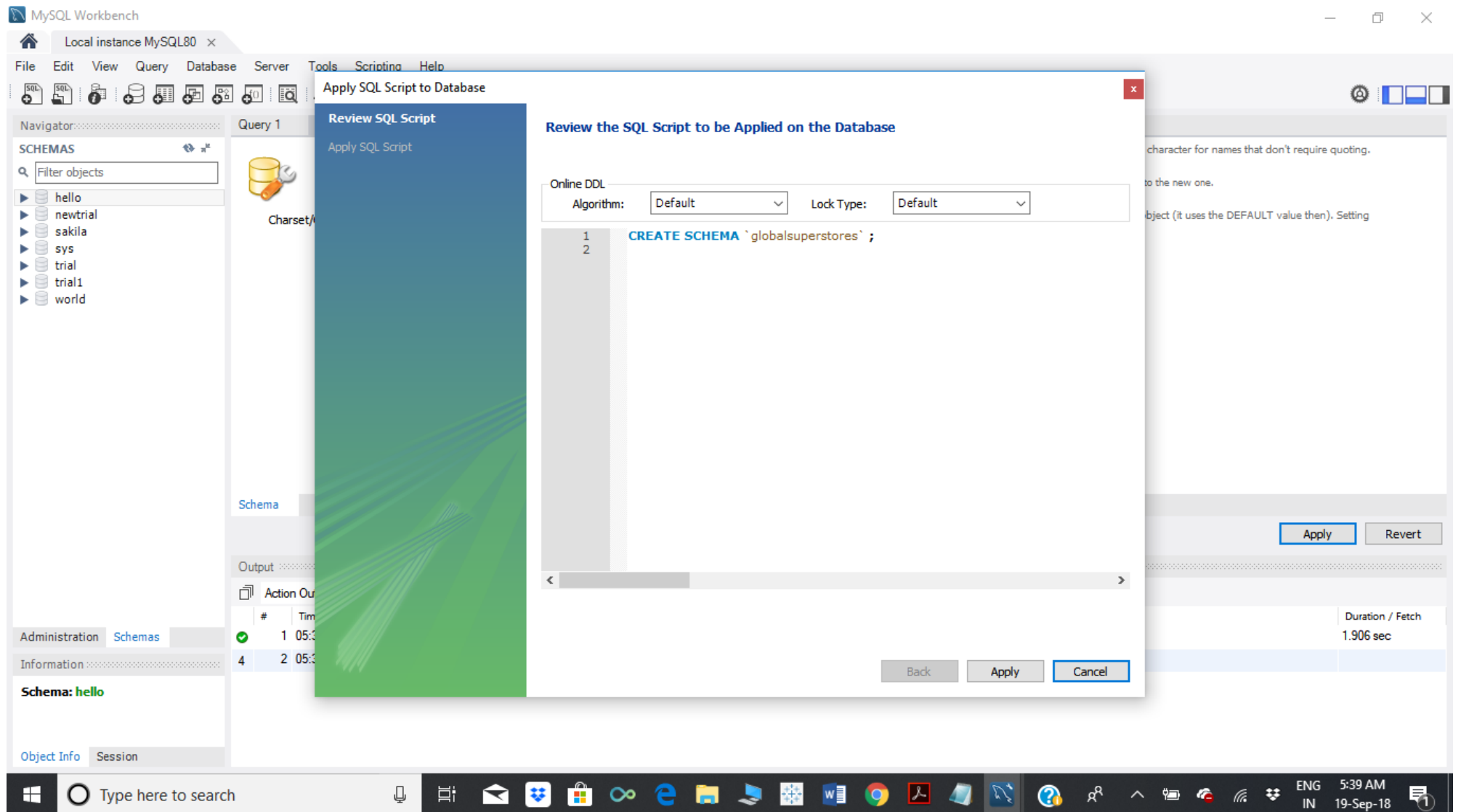
Object Info

Session

Type here to search

Taskbar icons: File Explorer, Mail, Edge, VS Code, etc.

System tray: ENG IN, 5:39 AM, 19-Sep-18



MySQL Workbench

Local instance MySQL80

FileEditViewQueryDatabaseServerToolsScriptingHelp

Navigator

SCHEMAS

Filter objects

globalsuperstores

Tables

Views

Stored Procedures

Functions

hello

newtrial

sakila

sys

trial

trial1

world

Administration

Schemas

Information

Schema: globalsuperstores

Object Info

Session

Query 1

globalsuperstores - Schema

Name: globalsuperstores

Rename References

Charset/Collation: utf8mb4 utf8mb4_0900_

Specify the name of the schema here. You can use any combination of ANSI letters, numbers and the underscore character for names that don't require quoting.

Refactor model, changing all references found in view, triggers, stored procedures and functions from the old schema name to the new one.

The character set and its collation selected here will be used when no other charset/collation is set for a database object (it uses the DEFAULT value then). Setting

Schema

ApplyRevert

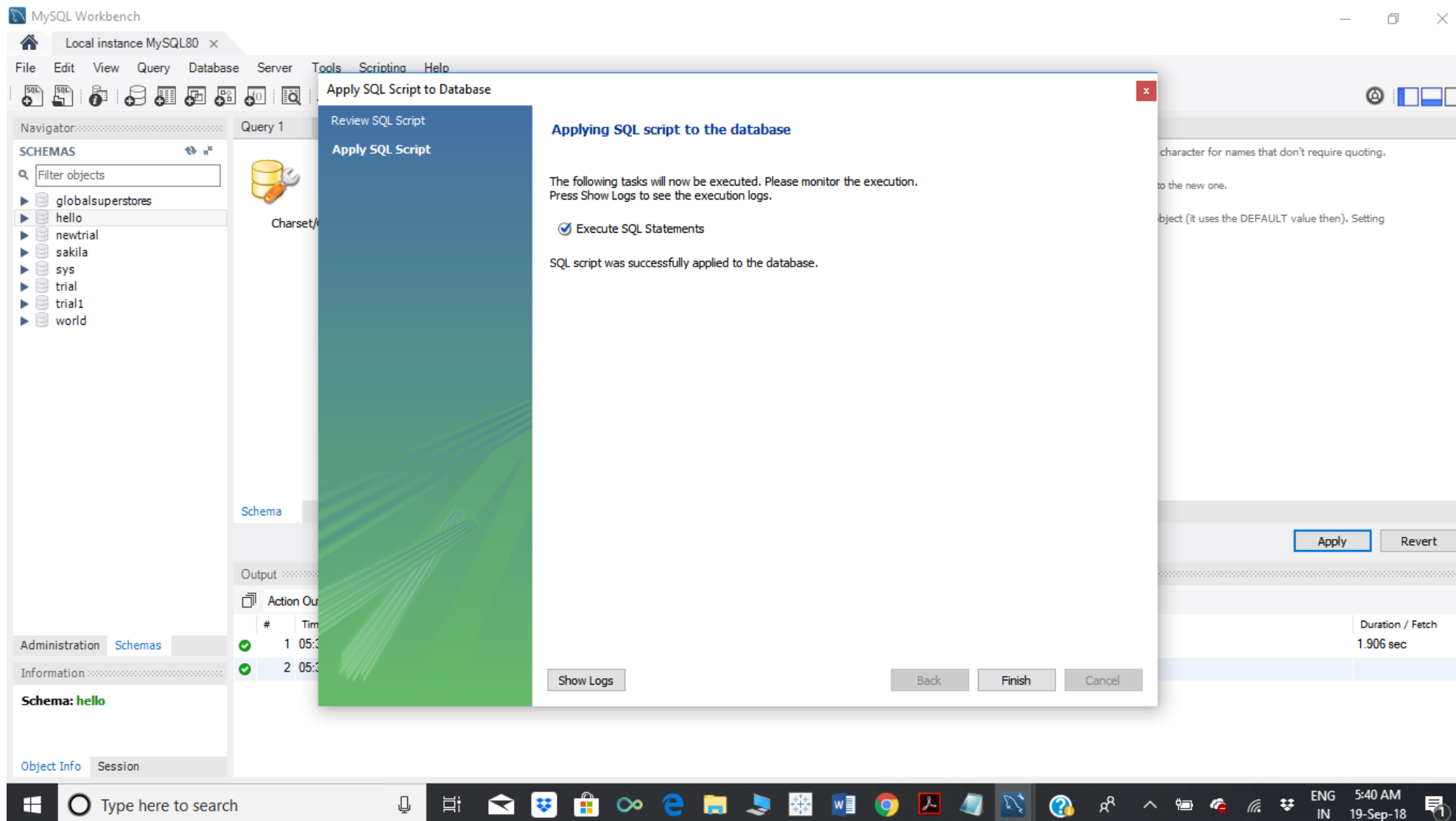
Output

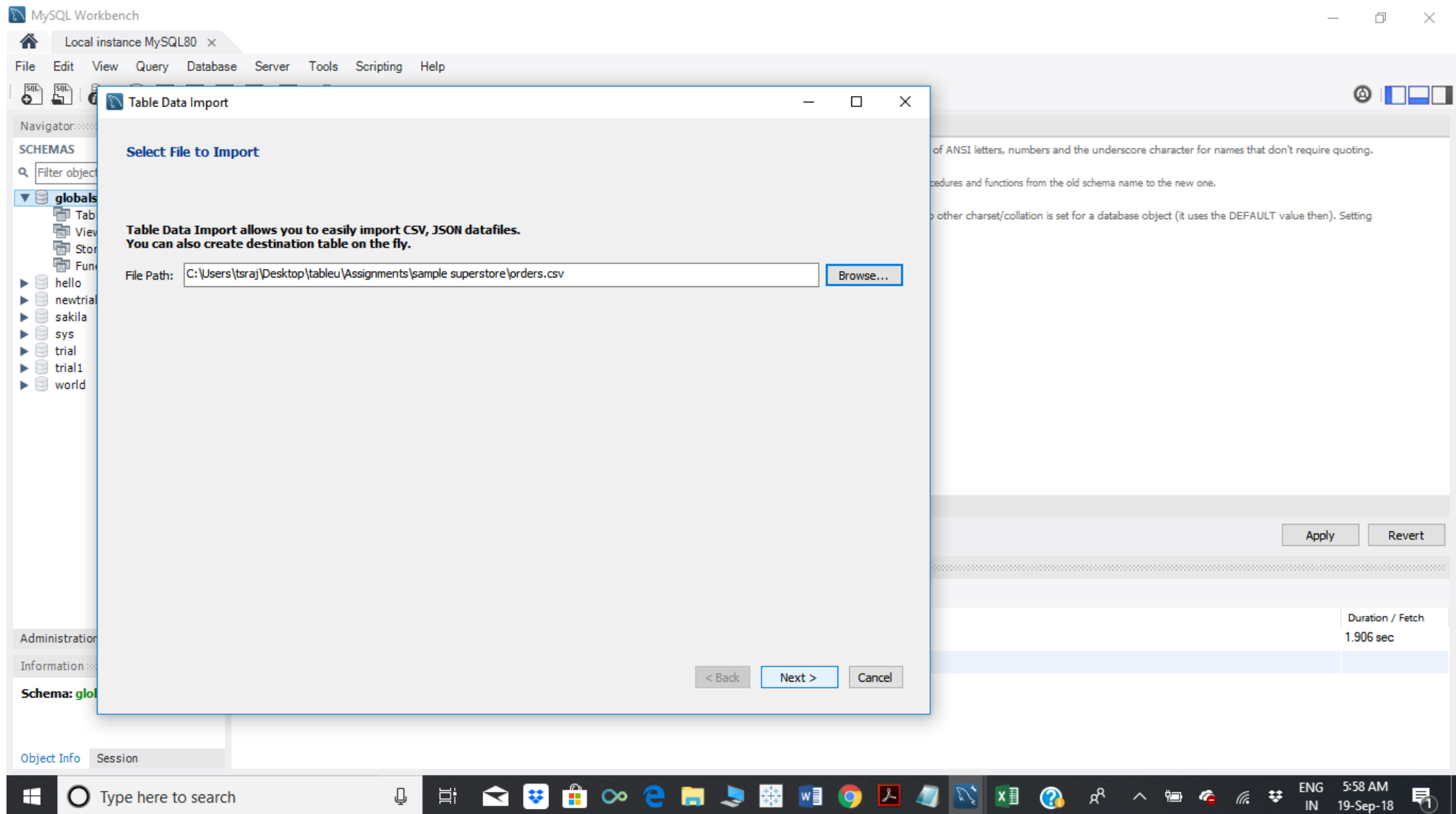
Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	05:31:25	DROP DATABASE 'globalstore_schema'	3 row(s) affected	1.906 sec
✓ 2	05:39:35	Apply changes to Globalsuperstores	Changes applied	

Type here to search

Windows Taskbar





AutoSave Off session 32 Assignment 1 Varatharajan Seshan

File Home Insert Draw Design Layout References Mailings Review View Help Tell me what you want to do

Margins Orientation

Table Data Import

Select Destination

Select destination table and additional options.

☐ Use existing table:

☒ Create new table: .

☐ Drop table if exists

Apply Revert

Duration / Fetch
1.906 sec

< Back Next > Cancel

77 words English (India)

Type here to search

ENG IN 5:58 AM 19-Sep-18

ENG IN 5:59 AM 19-Sep-18

95%

AutoSave Off session 32 Assignment 1 Varatharajan Seshan

File Home Insert Draw Design Layout References Mailings Review View Help Tell me what you want to do

Margins Orientation

Align Group Rotate

Table Data Import

Configure Import Settings

Detected file format: csv

Encoding: utf-8

Columns:

<input checked="" type="checkbox"/> Source Column	Field Type
<input checked="" type="checkbox"/> Row ID	int
<input checked="" type="checkbox"/> Order ID	text
<input checked="" type="checkbox"/> Order Date	text
<input checked="" type="checkbox"/> Ship Date	text
<input checked="" type="checkbox"/> Ship Mode	text
<input checked="" type="checkbox"/> Customer ID	text

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer ...	Segment	Country	City
1	CA-2016-15...	08-11-16	11-11-16	Second Class	CG-12520	Claire Gute	Consumer	United States	Hender
2	CA-2016-15...	08-11-16	11-11-16	Second Class	CG-12520	Claire Gute	Consumer	United States	Hender
3	CA-2016-13...	12-06-16	16-06-16	Second Class	DV-13045	Darrin Van...	Corporate	United States	Los Ang
4	US-2015-10...	11-10-15	18-10-15	Standard Cl...	SO-20335	Sean O'Don...	Consumer	United States	Fort Lai

Apply Revert

Duration / Fetch 1.906 sec

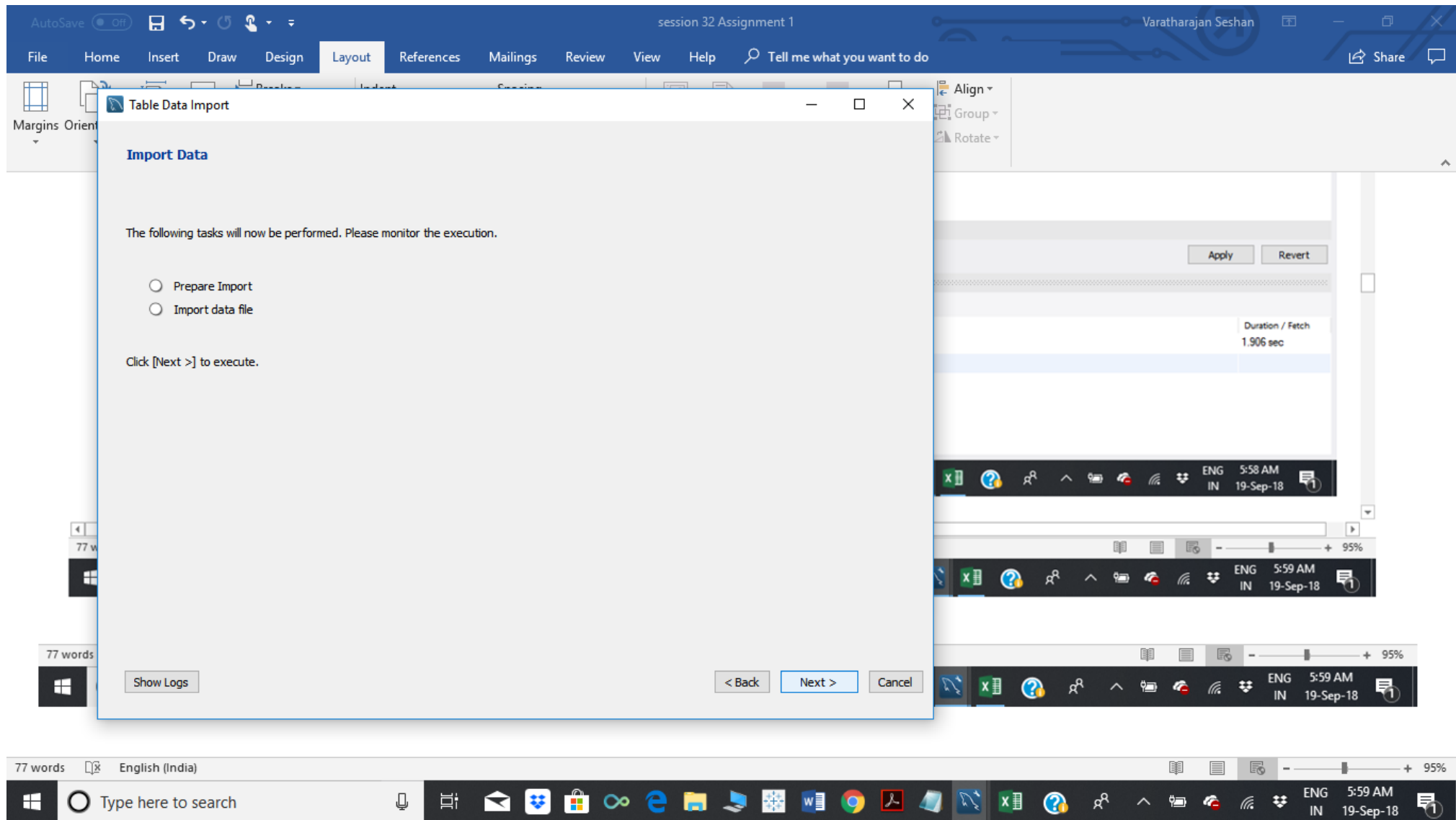
77 words English (India)

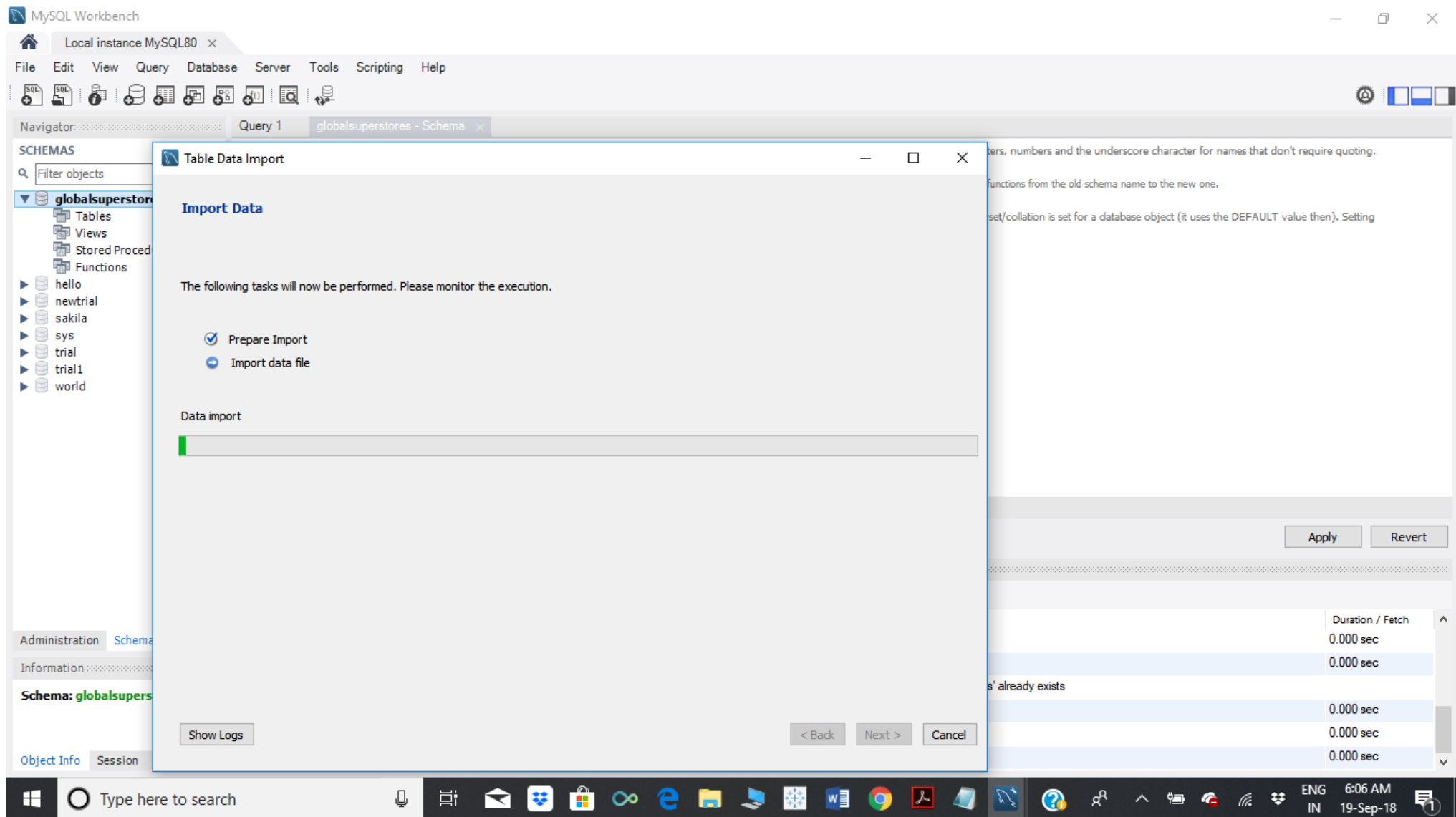
Type here to search

ENG IN 5:58 AM 19-Sep-18

ENG IN 5:59 AM 19-Sep-18

95%





AutoSave Off

session 32 Assignment 1

Varatharajan Seshan

FileHomeInsertDrawDesignLayoutReferencesMailingsReviewViewHelpTell me what you want to do

MarginsOrientationSizeColumnsBreaksLine NumbersHyphenation

IndentLeft: 0"Right: 0"SpacingBefore: 0 ptAfter: 8 pt

PositionWrapBring ForwardSend BackwardSelection PaneAlignGroupRotate

Functions

hello
newtrial
sakila
sys
trial
trial1
world

Administration
Information
Schema: globalsu

Object Info

77 wordsEnglish

Windows Taskbar

Table Data Import

Import Data

The following tasks will now be performed. Please monitor the execution.

☒ Prepare Import

☒ Import data file

Finished performing tasks. Click [Next >] to continue.

Show Logs

< BackNext >Cancel

ApplyRevert

Duration / Fetch
0.000 sec
0.000 sec
ready exists
0.000 sec
0.000 sec
0.000 sec

Windows Taskbar

AutoSave Off session 32 Assignment 1 Varatharajan Seshan

File Home Insert Draw Design Layout References Mailings Review View Help Tell me what you want to do

Margins Orientation Size Columns Breaks Line Numbers Hyphenation Indent Left: 0" Right: 0" Spacing Before: 0 pt After: 8 pt Position Wrap Bring Send Selection Align Group Rotate

Table Data Import

Import Results

File C:\Users\tsraj\Desktop\tableau\Assignments\sample superstore\orders.csv was imported in 2181.413 s

Table globalsuperstores.orders was created

9994 records imported

< Back Finish Cancel

77 words Administration Information Schema: glob Object Info 77 words 77 words English

Windows Taskbar: 6:06 AM 19-Sep-18, 6:43 AM 19-Sep-18, 6:44 AM 19-Sep-18

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

globalsuperstores

Tables

orders

Views

Stored Procedures

Functions

hello

newtrial

sakila

sys

trial

trial1

world

Query 1 globalsuperstores - Schema x

Name: globalsuperstores

Charset/Collation: utf8mb4 utf8mb4_0900_

Rename References

Specify the name of the schema here. You can use any combination of ANSI letters, numbers and the underscore character for names that don't require quoting.

Refactor model, changing all references found in view, triggers, stored procedures and functions from the old schema name to the new one.

The character set and its collation selected here will be used when no other charset/collation is set for a database object (it uses the DEFAULT value then). Setting

Schema

Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 12	06:06:08	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
✗ 13	06:06:21	CREATE TABLE 'globalsuperstores'.orders ('Row ID' int, 'Order ID' text, 'Order Date' text, 'S...	Error Code: 1050 Table 'orders' already exists	
✓ 14	06:06:21	DROP TABLE 'globalsuperstores'.orders	OK	0.000 sec
✓ 15	06:06:21	CREATE TABLE 'globalsuperstores'.orders ('Row ID' int, 'Order ID' text, 'Order Date' text, 'S...	OK	0.000 sec
✓ 16	06:06:22	PREPARE stmt FROM 'INSERT INTO 'globalsuperstores'.orders ('Category','City','Product I...	OK	0.000 sec
✓ 17	06:42:42	DEALLOCATE PREPARE stmt	OK	0.000 sec

Administration Schemas

Information

Schema: globalsuperstores

Object Info Session

Type here to search

ENG IN 6:45 AM 19-Sep-18

MySQL Workbench

Local instance MySQL80

FileEditViewQueryDatabaseServerToolsScriptingHelp

Navigator

SCHEMAS

Filter objects

globalsuperstores

Tables

orders

people

returns

Views

Stored Procedures

Functions

hello

newtrial

sakila

sys

trial

trial1

world

Administration

Schemas

Information

Schema: globalsuperstores

Object Info

Session

Query 1

globalsuperstores - Schema

Name: globalsuperstores

Rename References

Charset/Collation: utf8mb4

utf8mb4_0900_

Specify the name of the schema here. You can use any combination of ANSI letters, numbers and the underscore character for names that don't require quoting.

Refactor model, changing all references found in view, triggers, stored procedures and functions from the old schema name to the new one.

The character set and its collation selected here will be used when no other charset/collation is set for a database object (it uses the DEFAULT value then). Setting

Schema

Apply

Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 24	06:46:36	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
✓ 25	06:46:36	SHOW DATABASES	OK	0.000 sec
✓ 26	06:46:38	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
✓ 27	06:46:41	CREATE TABLE 'globalsuperstores'. 'returns' ('Returned' text, 'Order ID' text)	OK	0.000 sec
✓ 28	06:46:42	PREPARE stmt FROM 'INSERT INTO 'globalsuperstores'. 'returns' ('Returned', 'Order ID') VA...	OK	0.000 sec
✓ 29	06:47:29	DEALLOCATE PREPARE stmt	OK	0.000 sec

Type here to search

ENG IN 6:47 AM 19-Sep-18

MySQL 8.0 Command Line Client

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 26

Server version: 8.0.12 MySQL Community Server - GPL

Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;

Database
globalsuperstores
hello
information_schema
mysql
newtrial
performance_schema
sakila
sys
trial
trial1
world

11 rows in set (0.00 sec)

mysql> use globalsuperstores;

Database changed

mysql> show tables;

Tables_in_globalsuperstores
orders
people
returns

3 rows in set (0.03 sec)

mysql>



Type here to search



ENG
IN

6:50 AM
19-Sep-18



Connect Tableau Desktop to MySQL database

. Import the joined data set of the aforesaid three tables through custom SQL

Connections [Add](#)

localhost
MySQL

Database

globalsuperstores

Table

- orders
- people
- returns
- New Custom SQL
- New Union

Go to Worksheet

orders (globalsuperstores)

Connection
☒ Live ☐ ExtractFilters
0 | [Add](#)

orders

Sort fields Data source order

☐ Show aliases ☐ Show hidden fields 1,000 rows

# orders Row ID	Abc orders Order ID	Abc orders Order Date	Abc orders Ship Date	Abc orders Ship Mode	Abc orders Customer ID	Abc orders Customer Name	Abc orders Segment	Abc orders Country
1	CA-2016-152156	08-11-16	11-11-16	Second Class	CG-12520	Claire Gute	Consumer	United States
2	CA-2016-152156	08-11-16	11-11-16	Second Class	CG-12520	Claire Gute	Consumer	United States
3	CA-2016-138688	12-06-16	16-06-16	Second Class	DV-13045	Darrin Van Huff	Corporate	United States
4	US-2015-108966	11-10-15	18-10-15	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States
5	US-2015-108966	11-10-15	18-10-15	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States
6	CA-2014-115812	09-06-14	14-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States
7	CA-2014-115812	09-06-14	14-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States
8	CA-2014-115812	09-06-14	14-06-14	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States

Consumer

Data Source

Sheet1

Connections [Add](#)

localhost
MySQL

Database

globalsuperstores

Table

- orders
- people
- returns

New Custom SQL

New Union

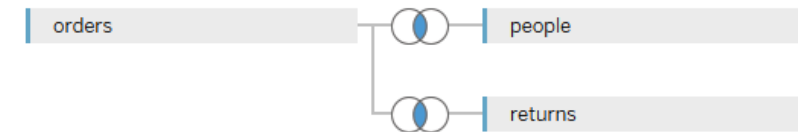
Go to Worksheet

orders+ (globalsuperstores)

Connection

☒ Live☐ Extract

Filters

0 | [Add](#)

Sort fields Data source order

☐ Show aliases☐ Show hidden fields

800

row

# orders Row ID	Abc orders Order ID	Abc orders Order Date	Abc orders Ship Date	Abc orders Ship Mode	Abc orders Customer ID	Abc orders Customer Name	Abc orders Segment	Abc orders Country
19	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
20	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
21	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
56	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
57	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
58	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
59	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
60	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States

Data Source

Sheet1

Rename the global super store file as My super store data

Connections [Add](#)

localhost
MySQL

Database

globalsuperstores

Table

- orders
- people
- returns

[New Custom SQL](#)

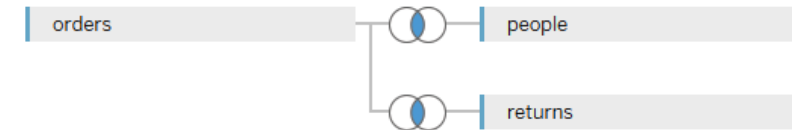
[New Union](#)

'my super store data'

Connection

☐ Live ☒ Extract [Edit](#) [Refresh](#) [Filters](#) 0 | [Add](#)

Extract will include all data.



Sort fields Data source order

☐ Show aliases ☐ Show hidden fields 800 rows

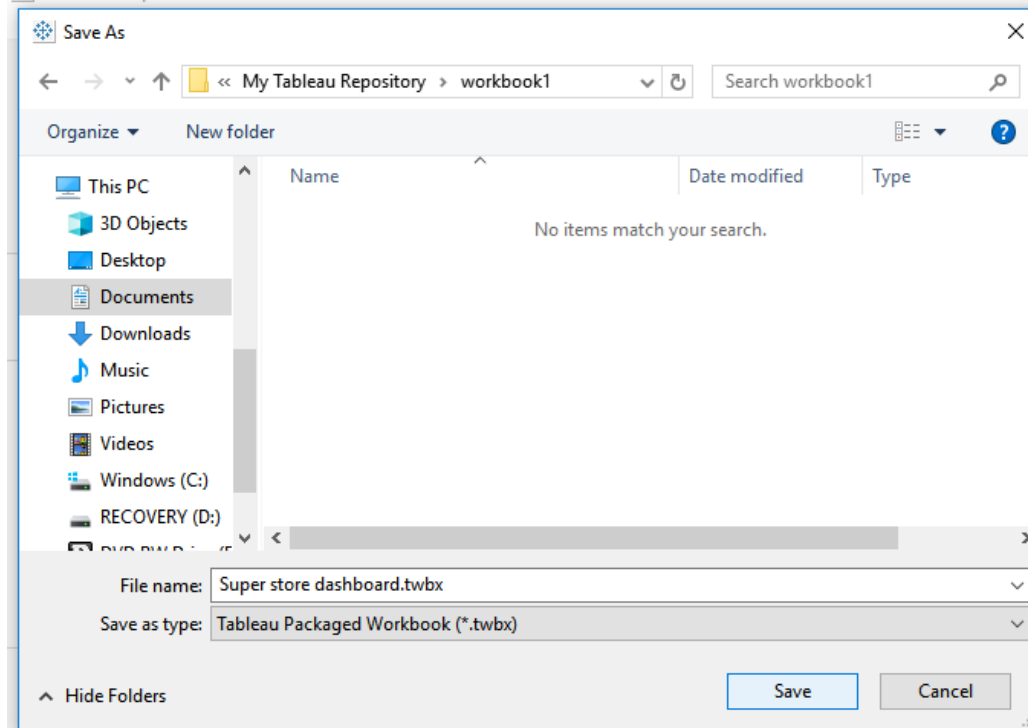
# orders Row ID	Abc orders Order ID	Abc orders Order Date	Abc orders Ship Date	Abc orders Ship Mode	Abc orders Customer ID	Abc orders Customer Name	Abc orders Segment	Abc orders Country
19	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
20	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
21	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
56	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
57	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
58	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
59	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
60	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States

[Go to Worksheet](#)

Data Source

Sheet1

Create an extract connection and save the work book as super store dashboard.twbx file in the Tableau Repository workbook.



Connection
☐ Live ☒ Extract | [Edit](#) [Refresh](#) 0 | [Add](#)
Extract will include all data.

☐ Show aliases ☐ Show hidden fields 800 →

Ship Mode	Customer ID	Customer Name	Segment	Country
Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
First Class	TB-21055	Ted Butterfield	Consumer	United States
First Class	TB-21055	Ted Butterfield	Consumer	United States
First Class	TB-21055	Ted Butterfield	Consumer	United States
First Class	TB-21055	Ted Butterfield	Consumer	United States
First Class	TB-21055	Ted Butterfield	Consumer	United States

Go to Worksheet

Data Source

Sheet1

Connections [Add](#)

localhost
MySQL

Database

globalsuperstores

Table

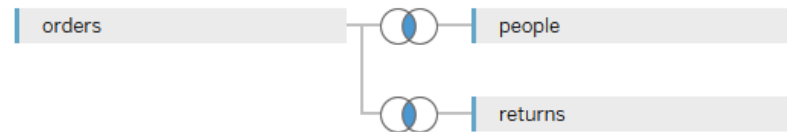
- orders
- people
- returns

New Custom SQL

New Union

[Go to Worksheet](#)

'my super store data'



Connection
☐ Live ☒ Extract [Edit](#) [Refresh](#) [Add](#)
Extract will include all data.

Pending Extract Creation



To save the workbook, you must either create the extract or click Cancel and use a Live connection.

[Create extract](#)[Cancel](#)

Sort fields Data

☐ Show aliases ☐ Show hidden fields 800 rows

# orders Row ID	Abc orders Order ID						Abc orders Customer Name	Abc orders Segment	Abc orders Country
19	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925		Zuschuss Donatelli	Consumer	United States
20	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925		Zuschuss Donatelli	Consumer	United States
21	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925		Zuschuss Donatelli	Consumer	United States
56	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055		Ted Butterfield	Consumer	United States
57	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055		Ted Butterfield	Consumer	United States
58	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055		Ted Butterfield	Consumer	United States
59	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055		Ted Butterfield	Consumer	United States
60	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055		Ted Butterfield	Consumer	United States

Data Source

Sheet1

Connections [Add](#)

localhost
MySQL

Database
globalsuperstores

Table

- orders
- people
- returns

New Custom SQL

New Union

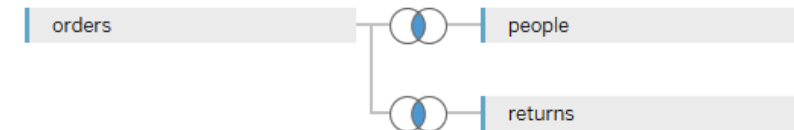
Go to Worksheet

'my super store data'

Connection

☐ Live ☒ Extract [Edit](#) [Refresh](#) Filters 0 [Add](#)

Extract includes all data. 19-Sep-18 7:01:36 AM



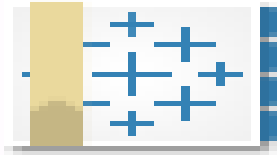
Sort fields Data source order

☐ Show aliases ☐ Show hidden fields 800 rows

# orders Row ID	Abc orders Order ID	Abc orders Order Date	Abc orders Ship Date	Abc orders Ship Mode	Abc orders Customer ID	Abc orders Customer Name	Abc orders Segment	Abc orders Country
19	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
20	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
21	CA-2014-143336	27-08-14	01-09-14	Second Class	ZD-21925	Zuschuss Donatelli	Consumer	United States
56	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
57	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
58	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
59	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States
60	CA-2016-111682	17-06-16	18-06-16	First Class	TB-21055	Ted Butterfield	Consumer	United States

Data Source

Sheet 1



Super store
dashboard.twbx .tw

