

CST2355 – Database Systems Lab Assignment 3

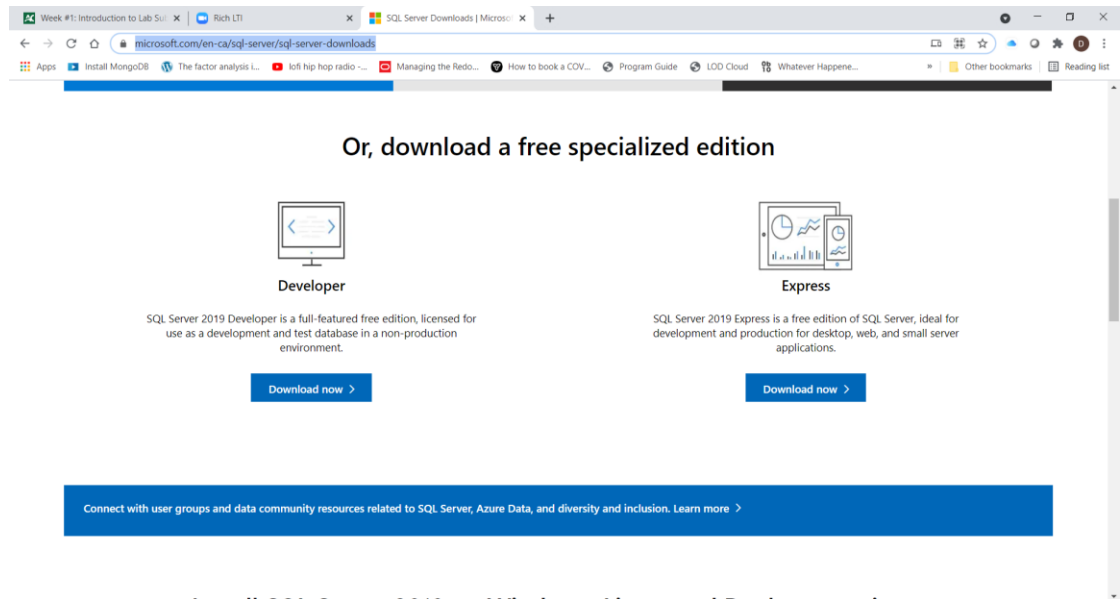
Student Name: Fei Lan
Student ID: 041055048
Student email: lan00012@algonquinlive.com

Hand-in:

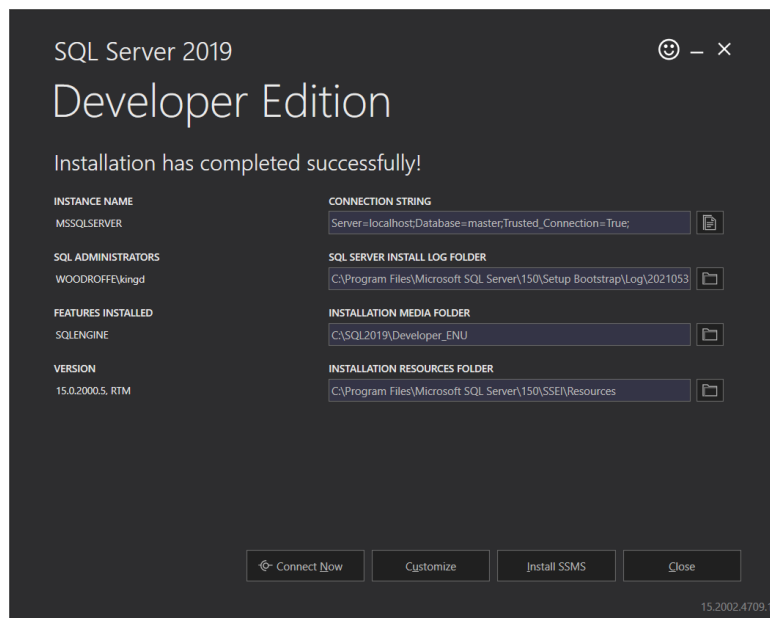
1. The lab assignment will be graded out of a maximum 4 points.
2. This template should be used to submit your lab assignment.
3. Make sure you have enough screenshots to completely document that you have completed all the steps.

Activities (Steps):

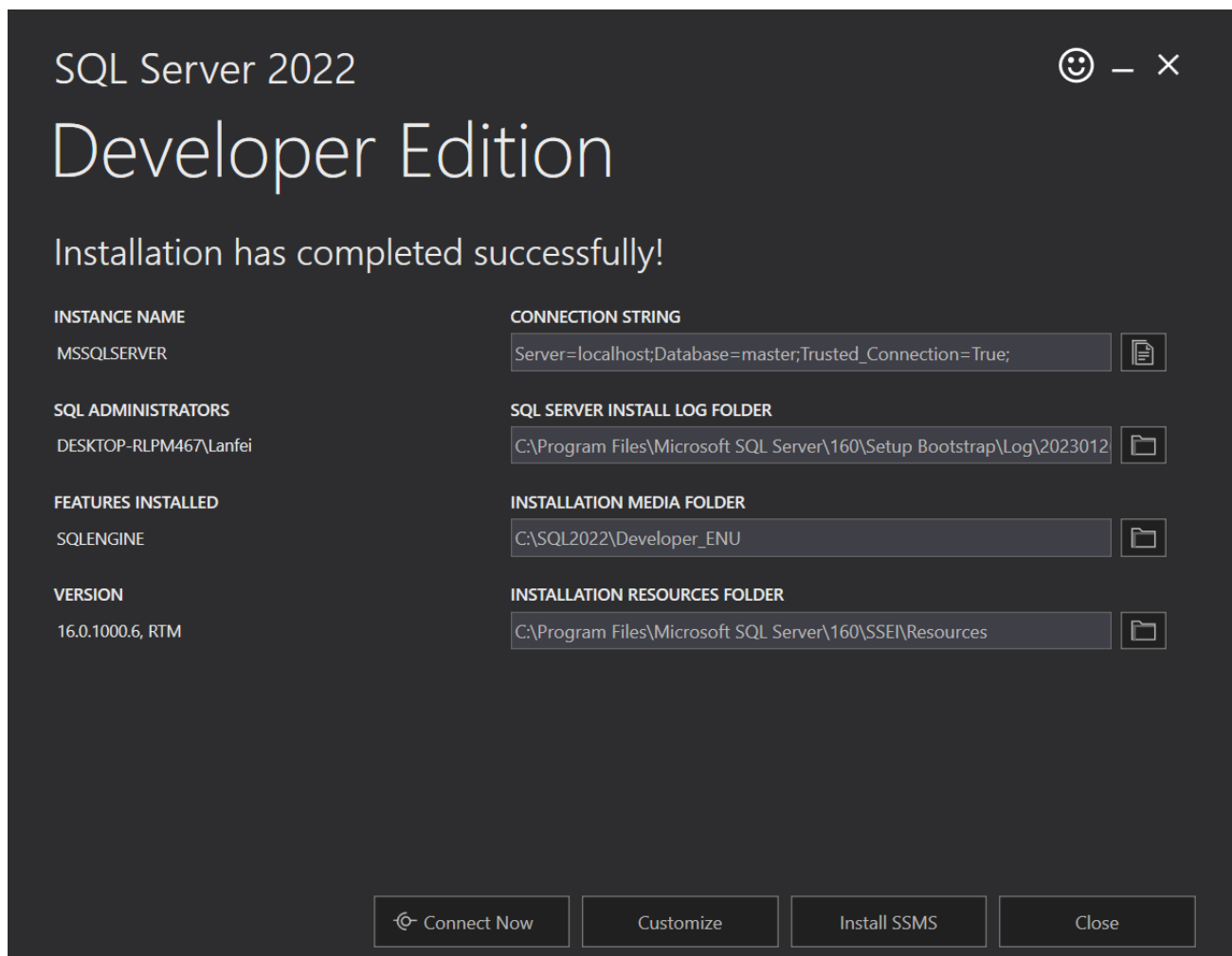
1. In this lab you will be using the Microsoft SQL Server 2019 database management system, and the MS SQL Server Management Studio (Version 18). The first step is to get the software installed.
 - 1.1. Follow the instructions below to install MS SQL Server 2019 and the SQL Server Management Studio 18
 - 1.1.1. Navigate to: <https://www.microsoft.com/en-ca/sql-server/sql-server-downloads>



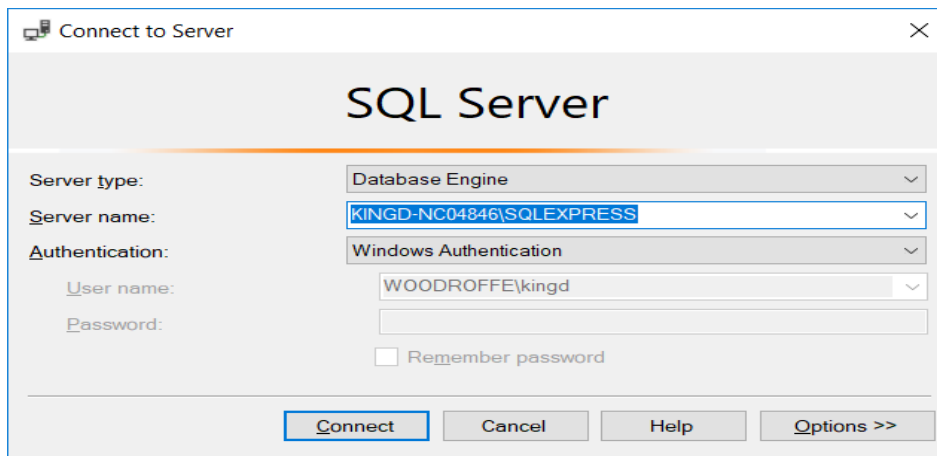
- 1.1.2. NOTE: Make sure you take a screenshot of the confirmation screen that shows all of the configuration folders, when you download and install the Developer edition. (Use the “Basic” installation configuration).



- 1.1.3. Paste YOUR installation confirmation screen here:



2. On the confirmation screen, select “Install SSMS” to install the SQL Server Management Studio.
 - 2.1. You need to download Version 18.9.1 and then run the setup file.
3. When complete, open the SQL Server Management Studio in Windows.
 - 3.1. The first time you open the tool, save the launch screen – it shows your instance name. Here is mine.



Connect to Server

SQL Server

Server type: Database Engine

Server name: KINGD-NC04846\SQLEXPRESS

Authentication: Windows Authentication

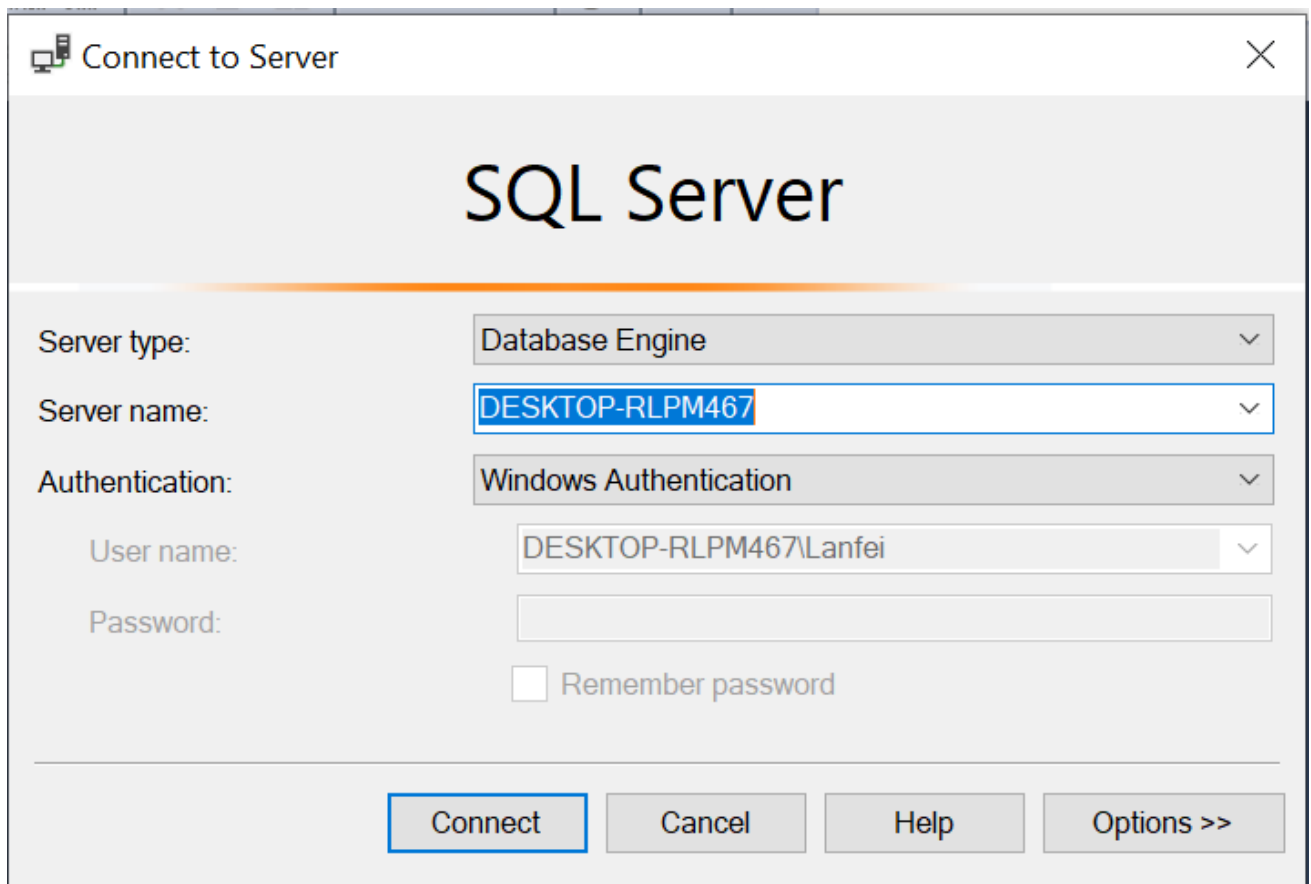
User name: WOODROFFE\kingd

Password:

☐ Remember password

Connect Cancel Help Options >>

Paste your screen here:



Connect to Server

SQL Server

Server type: Database Engine

Server name: DESKTOP-RLPM467

Authentication: Windows Authentication

User name: DESKTOP-RLPM467\Lanfei

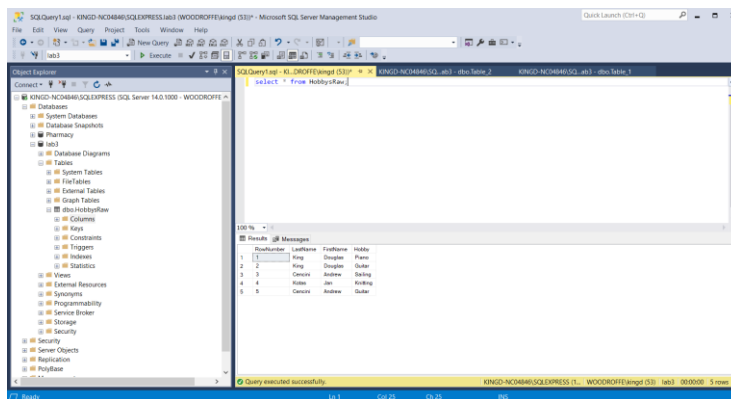
Password:

☐ Remember password

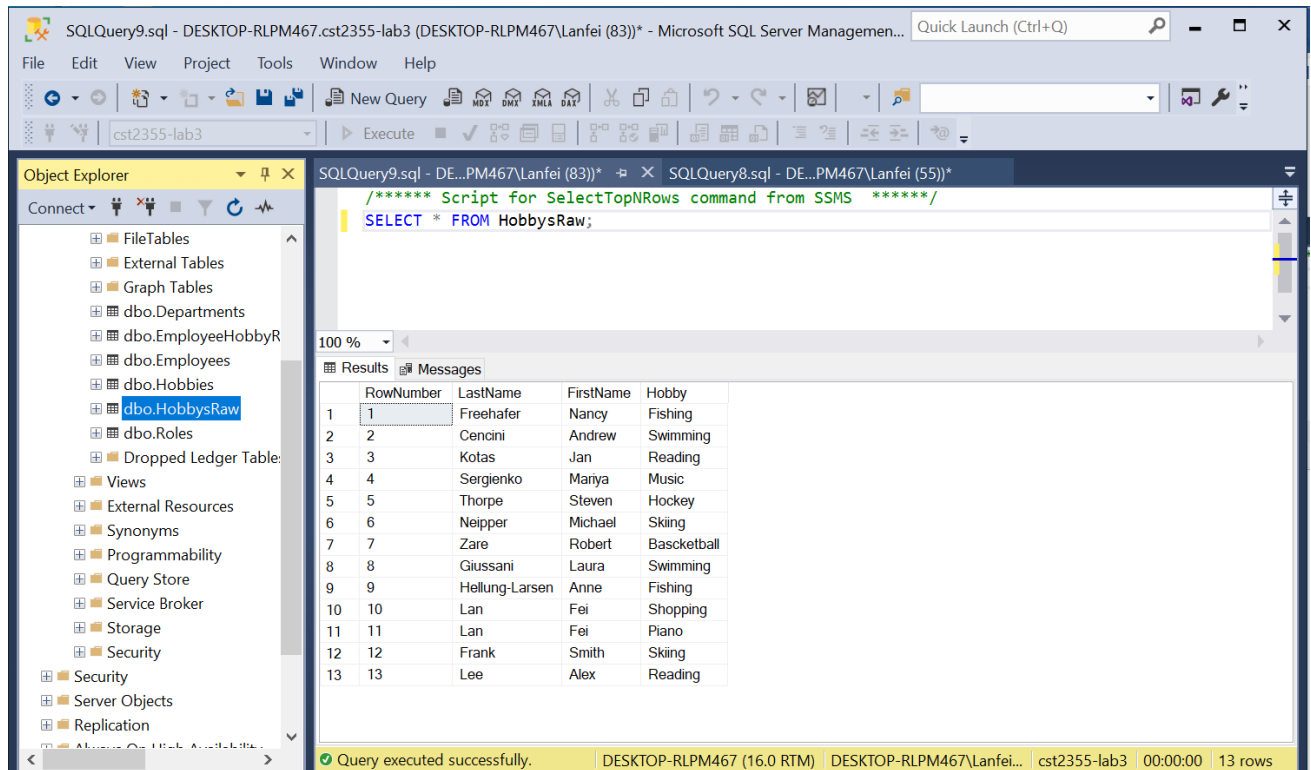
Connect Cancel Help Options >>

4. Connect to your server

- 4.1. Once launched, Select “Databases” and create a new one (right-mouse click, etc.) named “lab3”.
- 4.2. Select lab3 and right-mouse click it to get the Tasks menu and select “Import Data”.
- 4.3. Import the MS-Excel worksheet from lab2 containing the hobby data. (lastname, firstname, hobby) into a new table and rename the table “HobbysRaw” (see: <https://stackoverflow.com/questions/39610133/how-to-import-an-excel-file-into-sql-server>)
- 4.4. Create a New query, and execute it to show all the data in the imported table. Here is my table:



Paste your screen shot here:



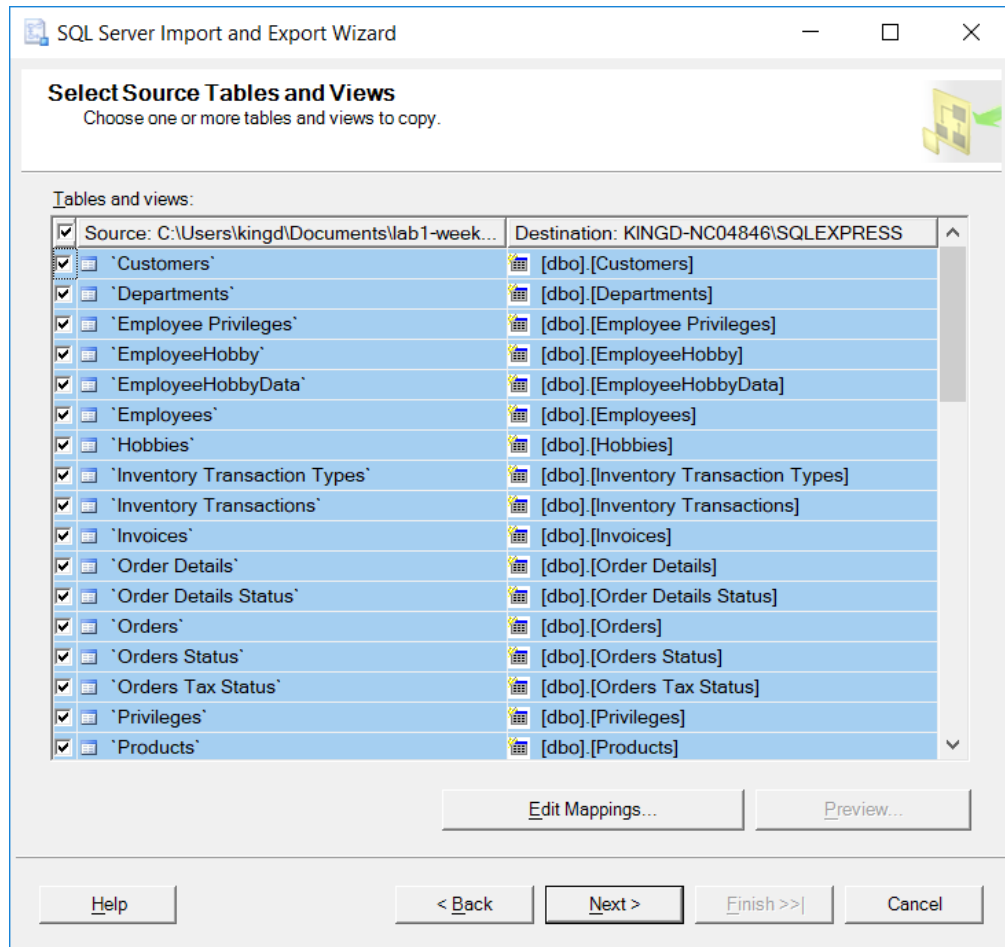
5. Now you will “Upsize” your version of the Northwind database from lab2.

5.1. FIRST MAKE A COPY OF YOUR ACCESS DATABASE FROM LAB2. Save it as “NorthwindForLab3”,

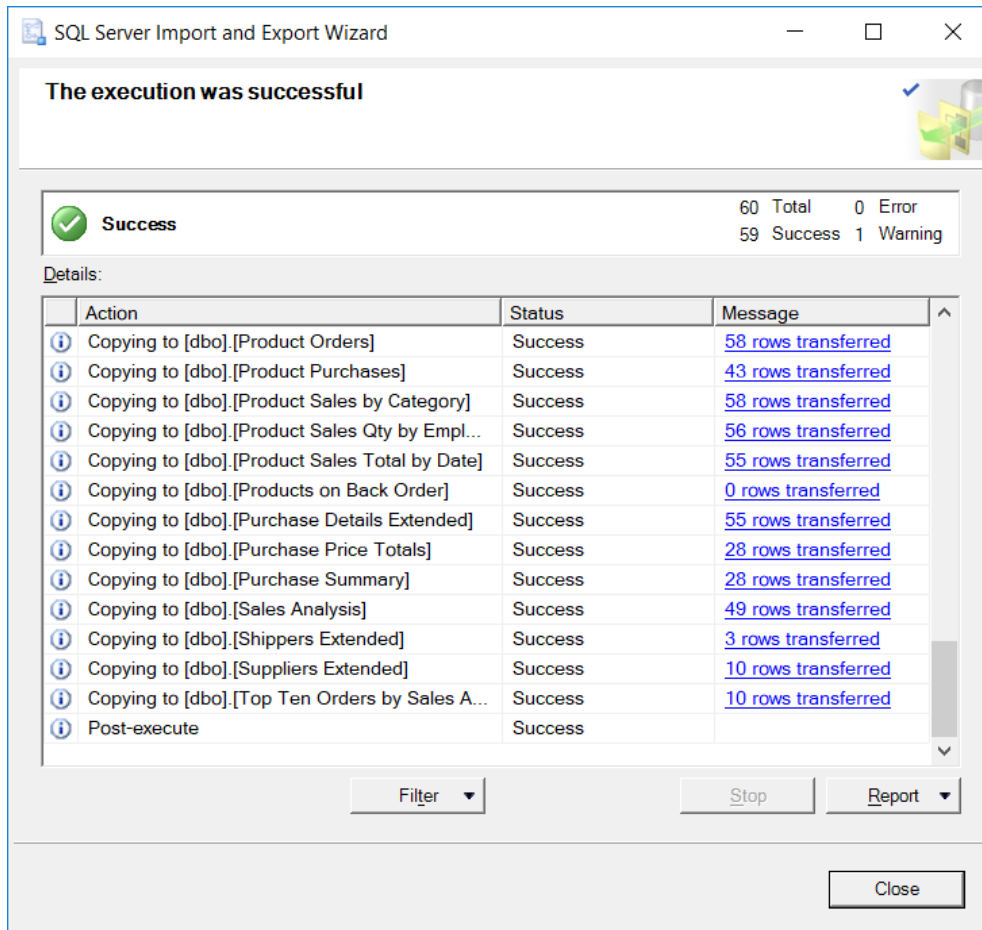
5.2. Navigate to the lab3 database and again right-mouse click and select Import Data from the Tasks sub-menu.

5.2.1. Select the data source as your NorthwindForLab3.accdb file. (You can use the advanced options to choose a blank username and password for the connection).

5.2.2. Once connected, select all the tables in the source database:

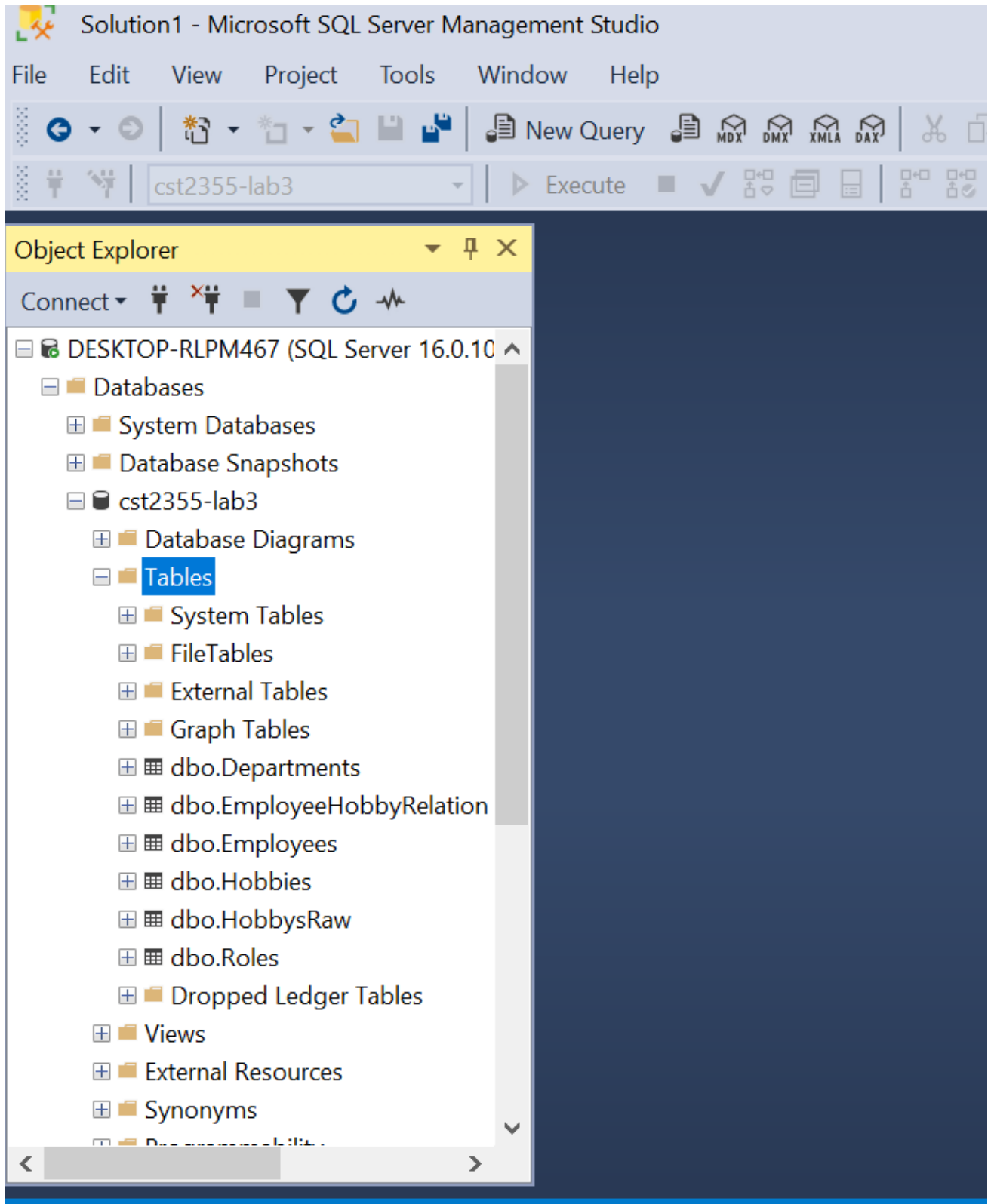


5.3. Accept all the defaults (don't adjust the meta-data) and "Next" until "Finish", at which point all the data tables will be imported! Here is my success message:



- 5.4. Select Tables in the Object Explorer and Refresh the list (F5). Paste a screen shot showing your list of imported tables in the object explorer (NOT the Wizard view above):

Note: I tried with different methods suggested in “CST2355-Lab03-updatedJan25.docx”, but I was still not able to import NorthwindForLab3.accdb into SQL Server. So I only exported Employees, Departments, Roles, Hobbies and EmployeeHobbyRelation from Access, and then imported them into SQL Server with .csv files.



5.5. Create a query to view all the data in one of the tables (pick one with some data....) and show the result of executing the query. Paste your screen shot below.

The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left shows the database structure, with the 'Employees' table selected under 'dbo'. The central pane displays the query: `SELECT * FROM Employees;`. The bottom pane shows the results of the query, which is a table with 12 rows and 9 columns: ID, Company, Last_Name, First_Name, E_mail_Address, Job_Title, Business_Phone, and Home_Phone. The status bar at the bottom indicates 'Query executed successfully.' and '12 rows'.

ID	Company	Last_Name	First_Name	E_mail_Address	Job_Title	Business_Phone	Home_Phone
1	Northwind Traders	Freehafer	Nancy	nancy@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102
2	Northwind Traders	Cencini	Andrew	andrew@northwindtraders.com	Vice President, Sales	(123)555-0100	(123)555-0102
3	Northwind Traders	Kotas	Jan	jan@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102
4	Northwind Traders	Sergienko	Mariya	mariya@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102
5	Northwind Traders	Thorpe	Steven	steven@northwindtraders.com	Sales Manager	(123)555-0100	(123)555-0102
6	Northwind Traders	Neipper	Michael	michael@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102
7	Northwind Traders	Zare	Robert	robert@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102
8	Northwind Traders	Giussani	Laura	laura@northwindtraders.com	Sales Coordinator	(123)555-0100	(123)555-0102
9	Northwind Traders	Hellung-Larsen	Anne	anne@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0102
10	Northwind Traders	Lan	Fei	fei@northwindtraders.com	HR Officer	(123)555-0111	(123)555-0123
11	Northwind Traders	Frank	Smith	frank@northwindtraders.com	HR Manager	(123)555-0111	(123)555-0345
12	Northwind Traders	Lee	Alex	alex@northwindtraders.com	Sales Representative	(123)555-0100	(123)555-0567

6. Once you have embedded all of your screenshots, submit the file in Brightspace and you're done!