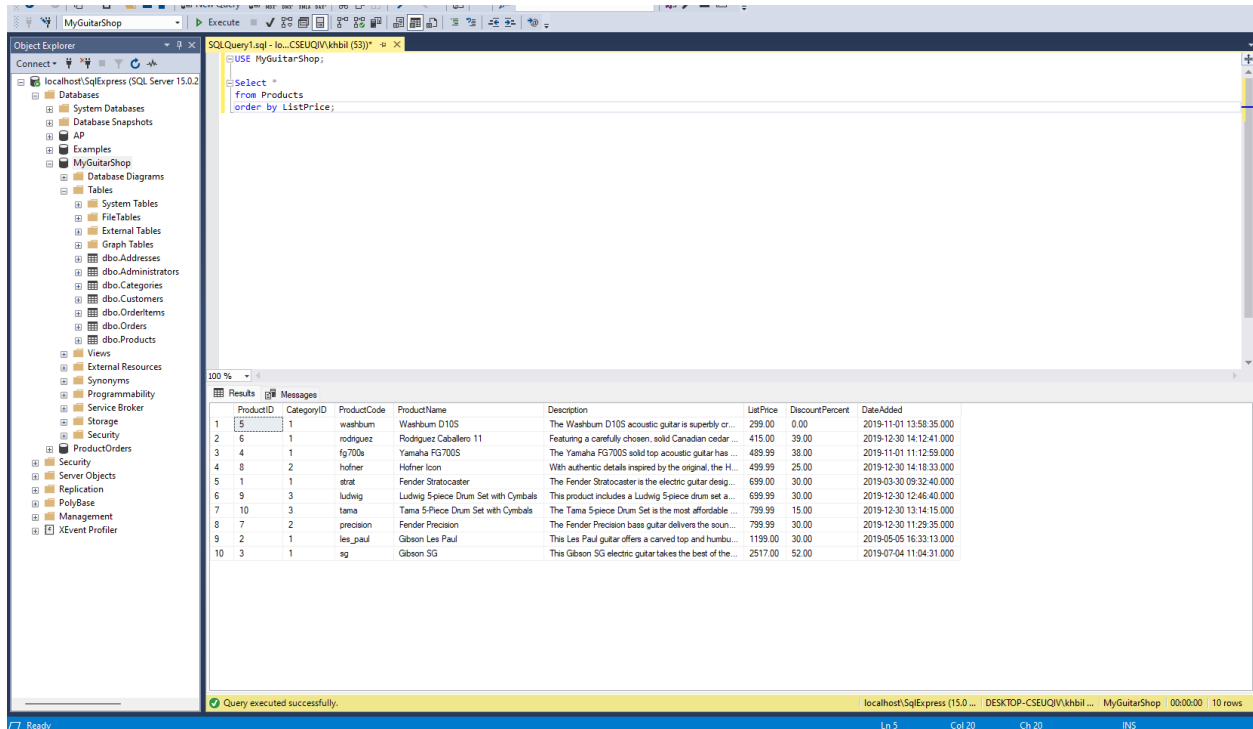


LAB 2 ASSIGNMENT

STEP 1



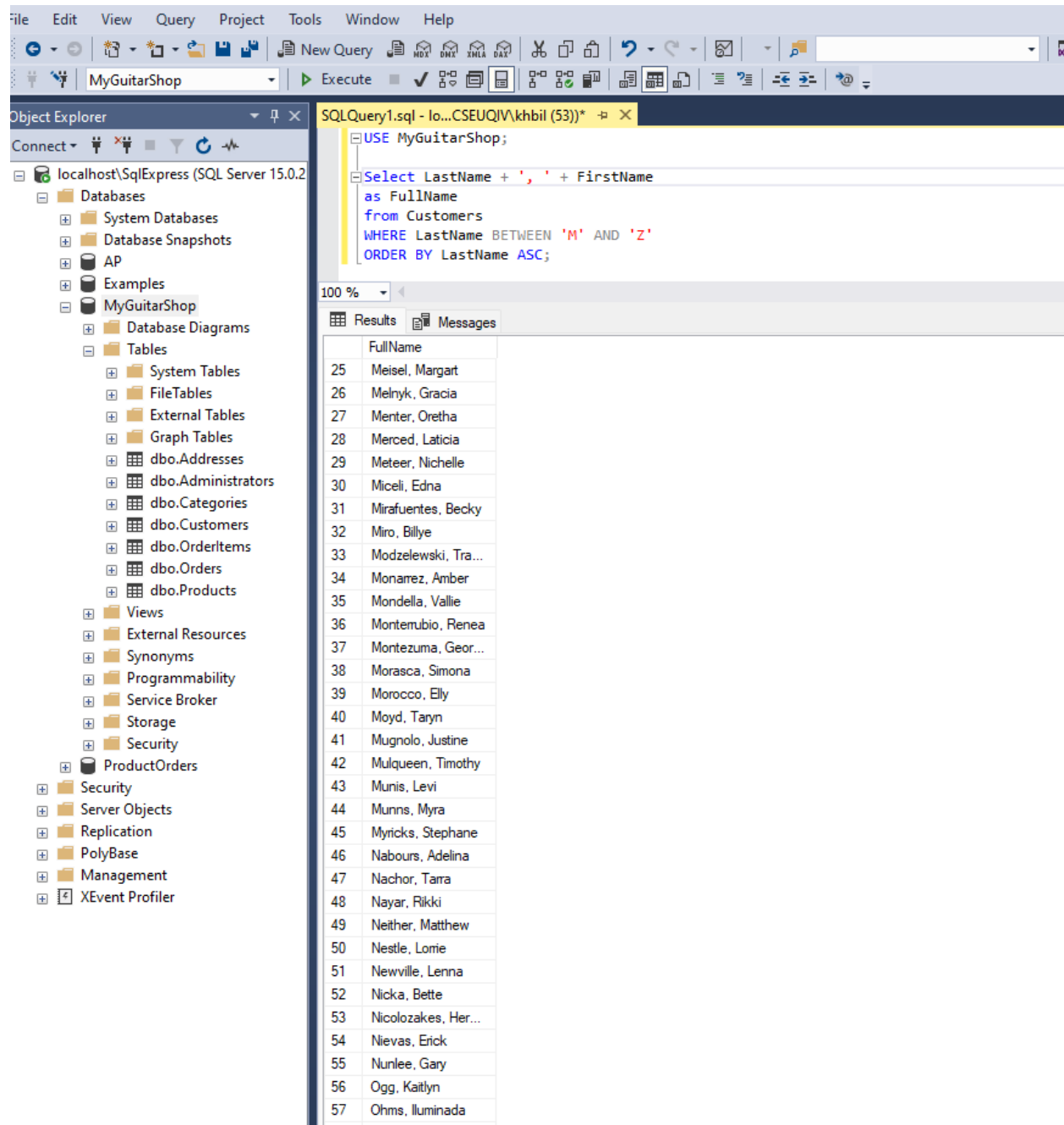
The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'MyGuitarShop'. The central pane shows the SQL query: `USE MyGuitarShop; SELECT * FROM Products ORDER BY ListPrice;`. The bottom pane displays the results of the query, which is a table with 10 rows and 8 columns: ProductID, CategoryID, ProductCode, ProductName, Description, ListPrice, DiscountPercent, and DateAdded.

ProductID	CategoryID	ProductCode	ProductName	Description	ListPrice	DiscountPercent	DateAdded
1	1	washburn	Washburn D10S	The Washburn D10S acoustic guitar is superbly cr...	299.00	0.00	2019-11-01 13:58:35.000
2	6	rodriguez	Rodriguez Caballero 11	Featuring a carefully chosen, solid Canadian cedar ...	415.00	39.00	2019-12-30 14:12:41.000
3	4	fg700s	Yamaha FG700S	The Yamaha FG700S solid top acoustic guitar has ...	489.99	38.00	2019-11-01 11:12:59.000
4	8	hofner	Hofner Icon	With authentic details inspired by the original, the H...	499.99	25.00	2019-12-30 14:18:33.000
5	1	strat	Fender Stratocaster	The Fender Stratocaster is the electric guitar desig...	699.00	30.00	2019-03-30 09:32:40.000
6	9	ludwig	Ludwig 5-piece Drum Set with Cymbals	This product includes a Ludwig 5-piece drum set a...	699.99	30.00	2019-12-30 12:46:40.000
7	10	tama	Tama 5-piece Drum Set with Cymbals	The Tama 5-piece Drum Set is the most affordable ...	799.99	15.00	2019-12-30 13:14:15.000
8	2	precision	Fender Precision	The Fender Precision bass guitar delivers the soun...	799.99	30.00	2019-12-30 11:29:35.000
9	2	lee_paul	Gibson Lee Paul	This Lee Paul guitar offers a carved top and humbu...	1199.00	30.00	2019-06-05 16:33:13.000
10	3	sg	Gibson SG	This Gibson SG electric guitar takes the best of the...	2517.00	52.00	2019-07-04 11:04:31.000

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STEP 2



The screenshot shows the Microsoft SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'localhost\SqLExpress (SQL Server 15.0.2)'. The 'MyGuitarShop' database is expanded, showing various system tables, user tables (including 'dbo.Addresses', 'dbo.Administrators', 'dbo.Categories', 'dbo.Customers', 'dbo.OrderItems', 'dbo.Orders', 'dbo.Products'), views, and security objects. The 'Customers' table is highlighted.

The SQL Query window on the right shows the following query:

```
USE MyGuitarShop;

Select LastName + ', ' + FirstName
as FullName
from Customers
WHERE LastName BETWEEN 'M' AND 'Z'
ORDER BY LastName ASC;
```

The Results tab is active, displaying the output of the query. The results are shown in a table with 25 rows, each containing a row number and a 'FullName' column. The names are sorted alphabetically by last name, starting with 'Meisel, Margart' and ending with 'Ohms, Iluminada'.

	FullName
25	Meisel, Margart
26	Melnyk, Gracia
27	Menter, Oretha
28	Merced, Laticia
29	Meteer, Nichelle
30	Miceli, Edna
31	Mirafuentes, Becky
32	Miro, Billye
33	Modzelewski, Tra...
34	Monarez, Amber
35	Mondella, Vallie
36	Monterubio, Renea
37	Montezuma, Geor...
38	Morasca, Simona
39	Morocco, Ely
40	Moyd, Taryn
41	Mugnolo, Justine
42	Mulqueen, Timothy
43	Munis, Levi
44	Munns, Myra
45	Myricks, Stephane
46	Nabours, Adelina
47	Nachor, Tara
48	Nayar, Rikki
49	Neither, Matthew
50	Nestle, Lorie
51	Newville, Lenna
52	Nicka, Bette
53	Nicolozakes, Her...
54	Nievas, Erick
55	Nunlee, Gary
56	Ogg, Kaitlyn
57	Ohms, Iluminada

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STEP 3

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar reads "Lab 2_Retrieve from table - Microsoft SQL Server Management Studio". The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar contains various icons for file operations, query execution, and window management. The "Object Explorer" on the left shows the server hierarchy for "localhost\SqLEXPRESS (SQL Server 15.0.2)", including Databases, System Databases, Database Snapshots, AP, Examples, MyGuitarShop, Database Diagrams, Tables, Views, External Resources, Synonyms, Programmability, Service Broker, Storage, Security, ProductOrders, Security, Server Objects, Replication, PolyBase, Management, and XEvent Profiler. The "Query Editor" window shows a query in "SQLQuery1.sql" with the following text:

```
USE MyGuitarShop;  
  
SELECT ProductName, ListPrice, DateAdded  
FROM Products  
WHERE ListPrice BETWEEN 500 AND 2000  
ORDER BY DateAdded DESC;
```

The "Results" pane at the bottom displays the query output as a table with 5 rows and 3 columns: ProductName, ListPrice, and DateAdded. The data is as follows:

	ProductName	ListPrice	DateAdded
1	Tama 5-Piece Drum Set with Cymbals	799.99	2019-12-30 13:14:15.000
2	Ludwig 5-piece Drum Set with Cymbals	699.99	2019-12-30 12:46:40.000
3	Fender Precision	799.99	2019-12-30 11:29:35.000
4	Gibson Les Paul	1199.00	2019-05-05 16:33:13.000
5	Fender Stratocaster	699.00	2019-03-30 09:32:40.000

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STEP 4

The screenshot displays the Microsoft SQL Server Management Studio interface. The title bar reads "Lab 2_Retrieve from table - Microsoft SQL Server Management Studio". The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar contains icons for New Query, Execute, and other standard SQL Server functions. The server name in the top left is "MyGuitarShop".

The Object Explorer on the left shows the database structure for "localhost\SqLExpress (SQL Server 15.0.2)". The "Databases" folder is expanded, showing "System Databases", "Database Snapshots", "AP", "Examples", and "MyGuitarShop". Under "MyGuitarShop", the "Tables" folder is expanded, listing various tables including "dbo.Addresses", "dbo.Administrators", "dbo.Categories", "dbo.Customers", "dbo.OrderItems", "dbo.Orders", "dbo.Products", "dbo.Views", "External Resources", "Synonyms", "Programmability", "Service Broker", "Storage", "Security", "ProductOrders", "Security", "Server Objects", "Replication", "PolyBase", "Management", and "XEvent Profiler".

The SQL Query Editor on the right shows the following query:

```
USE MyGuitarShop;

SELECT ProductName, ListPrice, DiscountPercent,
       ListPrice * DiscountPercent / 100 AS DiscountAmount,
       ListPrice - (ListPrice * DiscountPercent / 100) AS DiscountPrice
FROM Products
ORDER BY DiscountPrice DESC;
```

The Results tab shows the output of the query, displaying 10 rows of data. The columns are ProductName, ListPrice, DiscountPercent, DiscountAmount, and DiscountPrice. The data is sorted by DiscountPrice in descending order.

	ProductName	ListPrice	DiscountPercent	DiscountAmount	DiscountPrice
1	Gibson SG	2517.00	52.00	1308.84	1208.16
2	Gibson Les Paul	1199.00	30.00	359.70	839.30
3	Tama 5-Piece Drum Set with Cymbals	799.99	15.00	119.9985	679.9915
4	Fender Precision	799.99	30.00	239.997	559.993
5	Ludwig 5-piece Drum Set with Cymbals	699.99	30.00	209.997	489.993
6	Fender Stratocaster	699.00	30.00	209.70	489.30
7	Hofner Icon	499.99	25.00	124.9975	374.9925
8	Yamaha FG700S	489.99	38.00	186.1962	303.7938
9	Washburn D10S	299.00	0.00	0.00	299.00
10	Rodriguez Caballero 11	415.00	39.00	161.85	253.15

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STEPS

Lab 2_Retrieve from table - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

MyGuitarShop Execute

Object Explorer

Connect - localhost\SqLExpress (SQL Server 15.0.2)

Databases

- System Databases
- Database Snapshots
- AP
- Examples
- MyGuitarShop
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Addresses
 - dbo.Administrators
 - dbo.Categories
 - dbo.Customers
 - dbo.OrderItems
 - dbo.Orders
 - dbo.Products
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - ProductOrders
- Security
- Server Objects
- Replication
- PolyBase
- Management
- XEvent Profiler

SQLQuery1.sql - lo...CSEUQIV\khbil (53))*

```
SELECT ItemID, ItemPrice, DiscountAmount, Quantity,
       ItemPrice * Quantity AS PriceTotal,
       DiscountAmount * Quantity AS DiscountTotal,
       (ItemPrice - DiscountAmount) * Quantity AS ItemTotal
FROM OrderItems
WHERE (ItemPrice - DiscountAmount) * Quantity > 500
ORDER BY ItemTotal DESC;
```

100 %

Results Messages

	ItemID	ItemPrice	DiscountAmount	Quantity	PriceTotal	DiscountTotal	ItemTotal
1	33	799.99	240.00	5	3999.95	1200.00	2799.95
2	23	1199.00	359.70	2	2398.00	719.40	1678.60
3	5	1199.00	359.70	2	2398.00	719.40	1678.60
4	17	1199.00	359.70	2	2398.00	719.40	1678.60
5	29	1199.00	359.70	2	2398.00	719.40	1678.60
6	43	1199.00	359.70	2	2398.00	719.40	1678.60
7	12	699.00	209.70	3	2097.00	629.10	1467.90
8	15	2517.00	1308.84	1	2517.00	1308.84	1208.16
9	3	2517.00	1308.84	1	2517.00	1308.84	1208.16
10	26	2517.00	1308.84	1	2517.00	1308.84	1208.16
11	35	2517.00	1308.84	1	2517.00	1308.84	1208.16
12	37	2517.00	1308.84	1	2517.00	1308.84	1208.16
13	42	2517.00	1308.84	1	2517.00	1308.84	1208.16
14	31	2517.00	1308.84	1	2517.00	1308.84	1208.16
15	39	1199.00	359.70	1	1199.00	359.70	839.30
16	1	1199.00	359.70	1	1199.00	359.70	839.30
17	16	799.99	120.00	1	799.99	120.00	679.99
18	11	799.99	120.00	1	799.99	120.00	679.99
19	24	799.99	120.00	1	799.99	120.00	679.99
20	38	299.00	0.00	2	598.00	0.00	598.00
21	25	799.99	240.00	1	799.99	240.00	559.99
22	18	799.99	240.00	1	799.99	240.00	559.99
23	9	799.99	240.00	1	799.99	240.00	559.99
24	40	799.99	240.00	1	799.99	240.00	559.99

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STEP 6

Lab 2_Retrieve from table - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

MyGuitarShop Execute

Object Explorer

Connect

localhost\SqLExpress (SQL Server 15.0.2)

- Databases
 - System Databases
 - Database Snapshots
 - AP
 - Examples
 - MyGuitarShop
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Addresses
 - dbo.Administrators
 - dbo.Categories
 - dbo.Customers
 - dbo.OrderItems
 - dbo.Orders
 - dbo.Products
 - Views

SQLQuery1.sql - lo...CSEUQIV\khbil (53))*

```
USE MyGuitarShop;  
  
SELECT OrderID, OrderDate, ShipDate  
FROM Orders  
WHERE ShipDate IS NULL;
```

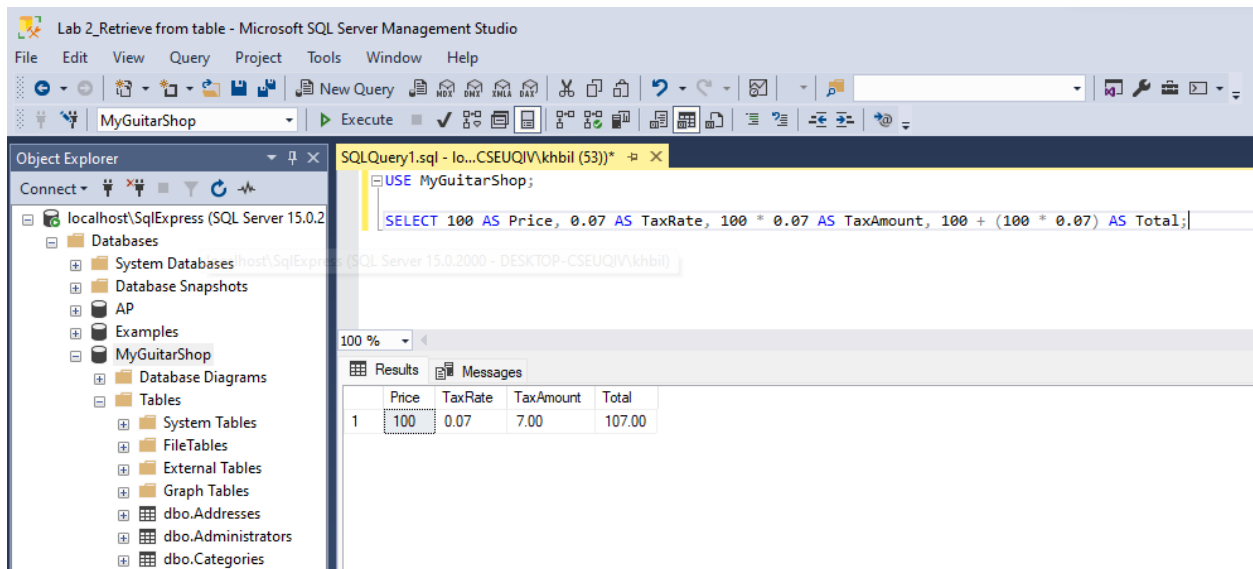
100 %

Results Messages

	OrderID	OrderDate	ShipDate
1	32	2020-03-01 01:23:23.000	NULL
2	38	2020-03-08 11:41:24.000	NULL
3	39	2020-03-08 22:22:26.000	NULL
4	40	2020-03-08 21:41:29.000	NULL
5	41	2020-03-09 07:52:55.000	NULL

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STEP 7



The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar reads "Lab 2_Retrieve from table - Microsoft SQL Server Management Studio". The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar contains various icons for file operations, query execution, and formatting. The "Object Explorer" on the left shows the database structure for "localhost\SqLExpress (SQL Server 15.0.2000)". The "MyGuitarShop" database is expanded, showing "Database Diagrams", "Tables", and "System Tables". The "Tables" folder is expanded, showing "dbo.Addresses", "dbo.Administrators", and "dbo.Categories". The "Query Editor" window shows the following SQL query:

```
USE MyGuitarShop;

SELECT 100 AS Price, 0.07 AS TaxRate, 100 * 0.07 AS TaxAmount, 100 + (100 * 0.07) AS Total;
```

The "Results" pane shows the output of the query:

	Price	TaxRate	TaxAmount	Total
1	100	0.07	7.00	107.00