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LAB 3 ASSIGNMENT

STEP 1

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. On the left, the Object Explorer shows the database structure for 'MyGuitarShop' on a local SQL Express instance. The 'Tables' folder is expanded, listing various tables including 'dbo.Categories' and 'dbo.Products'. The main window shows a SQL query in the 'SQLQuery1.sql' editor. The query is as follows:

```
USE MyGuitarShop;

SELECT Categories.CategoryName, Products.ProductName, Products.ListPrice
FROM Categories
INNER JOIN Products
ON Categories.CategoryID = Products.CategoryID
ORDER BY Categories.CategoryName, Products.ProductName;
```

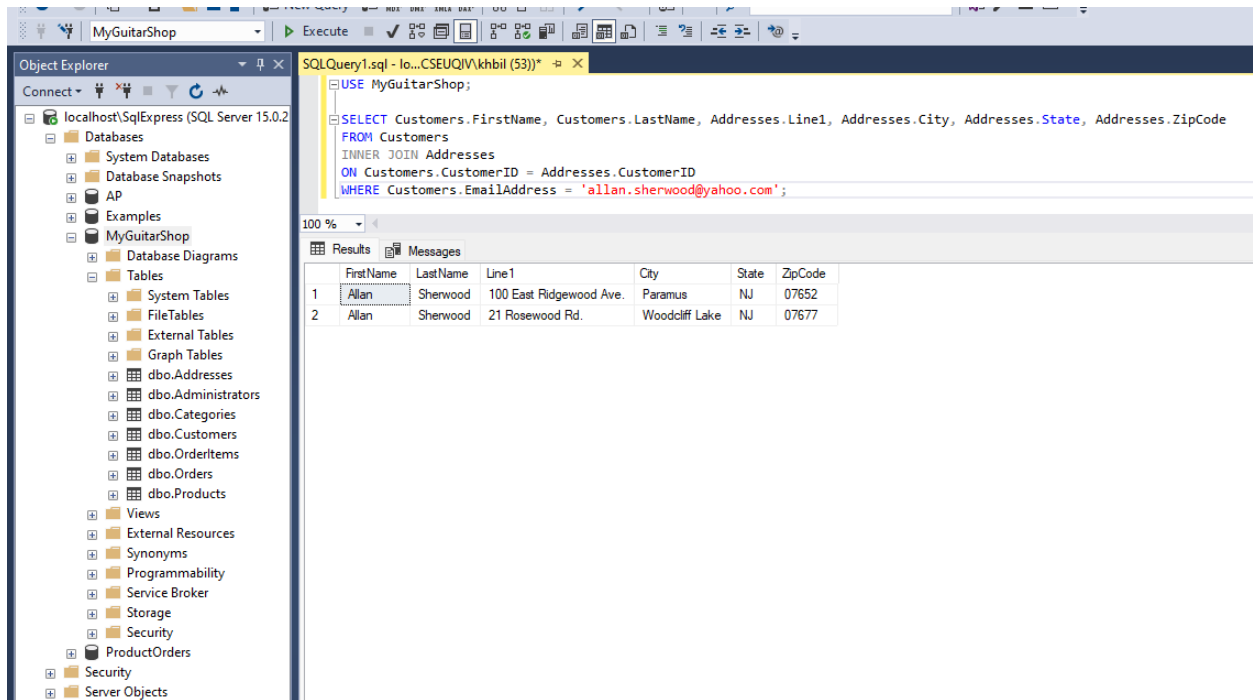
Below the query editor, the 'Results' tab is active, displaying the query output as a table with 10 rows. The columns are 'CategoryName', 'ProductName', and 'ListPrice'.

	CategoryName	ProductName	ListPrice
1	Basses	Fender Precision	799.99
2	Basses	Hofner Icon	499.99
3	Drums	Ludwig 5-piece Drum Set with Cymbals	699.99
4	Drums	Tama 5-Piece Drum Set with Cymbals	799.99
5	Guitars	Fender Stratocaster	699.00
6	Guitars	Gibson Les Paul	1199.00
7	Guitars	Gibson SG	2517.00
8	Guitars	Rodriguez Caballero 11	415.00
9	Guitars	Washburn D10S	299.00
10	Guitars	Yamaha FG700S	489.99

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2/10/2023

STEP 2



The screenshot displays the SQL Server Enterprise Manager interface. The Object Explorer on the left shows the database structure for 'MyGuitarShop' on 'localhost\SqLExpress (SQL Server 15.0.2)'. The query window on the right shows the following SQL query:

```
USE MyGuitarShop;

SELECT Customers.FirstName, Customers.LastName, Addresses.Line1, Addresses.City, Addresses.State, Addresses.ZipCode
FROM Customers
INNER JOIN Addresses
ON Customers.CustomerID = Addresses.CustomerID
WHERE Customers.EmailAddress = 'allan.sherwood@yahoo.com';
```

The query results are displayed in a table with the following columns: FirstName, LastName, Line1, City, State, and ZipCode. The results show two records for the customer 'Allan Sherwood'.

	FirstName	LastName	Line1	City	State	ZipCode
1	Allan	Sherwood	100 East Ridgewood Ave.	Paramus	NJ	07652
2	Allan	Sherwood	21 Rosewood Rd.	Woodcliff Lake	NJ	07677

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2/10/2023

STEP 3

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'Object Explorer' pane shows the database structure for 'MyGuitarShop' on 'localhost\SqLExpress (SQL Server 15)'. The 'Tables' folder is expanded, showing 'dbo.Addresses' and 'dbo.Customers'. The 'Columns' folder for 'dbo.Addresses' is also expanded, listing columns like 'AddressID (PK)', 'CustomerID (FK)', 'Line1 (varchar)', 'Line2 (varchar)', 'City (varchar)', 'State (varchar)', 'ZipCode (varchar)', 'Phone (varchar)', and 'Disabled (int)'. The 'Columns' folder for 'dbo.Customers' is also expanded, listing 'CustomerID (PK)', 'EmailAddress', and 'Password'. The 'SQL Query Editor' pane shows a query titled 'SQLQuery1.sql - lo...CSEUQIV\khhil (53))' with the following SQL code:

```
USE MyGuitarShop;

SELECT Addresses.Line1, Addresses.City, Addresses.State, Addresses.ZipCode
FROM Customers
INNER JOIN Addresses
ON Customers.CustomerID = Addresses.CustomerID
```

The 'Results' pane shows the output of the query, displaying a table with 5 columns: 'Line1', 'City', 'State', and 'ZipCode'. The table contains 25 rows of data, with the first row highlighted. The data is as follows:

	Line1	City	State	ZipCode
1	100 East Ridgewood Ave.	Paramus	NJ	07652
2	21 Rosewood Rd.	Woodcliff Lake	NJ	07677
3	16285 Wendell St.	Omaha	NE	68135
4	19270 NW Cornell Rd.	Beaverton	OR	97006
5	186 Vermont St.	San Francisco	CA	94110
6	1374 46th Ave.	San Francisco	CA	94129
7	6982 Palm Ave.	Fresno	CA	93711
8	23 Mountain View St.	Denver	CO	80208
9	7361 N. 41st St.	New York	NY	10012
10	3829 Broadway Ave.	New York	NY	10012
11	2381 Buena Vista St.	Los Angeles	CA	90023
12	291 W. Hollywood Blvd.	Los Angeles	CA	90024
13	96950 Hidden Ln	Aberdeen	MD	21001
14	6980 Dorsett Rd	Abilene	KS	67410
15	33 State St	Abilene	TX	79601
16	5 E Truman Rd	Abilene	TX	79602
17	8284 Hart St	Abilene	KS	67410
18	9387 Charcot Ave	Absecon	NJ	8201
19	3777 E Richmond St #900	Akron	OH	44302
20	74 S Westgate St	Albany	NY	12204
21	9390 S Howell Ave	Albany	GA	31701
22	89992 E 15th St	Alliance	NE	69301
23	812 S Haven St	Amarillo	TX	79109
24	72119 S Walker Ave #63	Anaheim	CA	92801
25	639 Main St	Anchorage	AK	99501

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2/10/2023

STEP4

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the Object Explorer shows the database structure for 'MyGuitarShop'. The central pane shows a SQL query in the 'SQLQuery1.sql' window. The query is a SELECT statement that joins the Customers, Orders, OrderItems, and Products tables. The results pane on the right shows the output of the query, which is a list of 28 rows containing customer information, order dates, product names, item prices, discount amounts, and quantities.

```
USE MyGuitarShop;

SELECT c.LastName, c.FirstName, o.OrderDate, p.ProductName, oi.ItemPrice, oi.DiscountAmount, oi.Quantity
FROM Customers c
JOIN Orders o ON c.CustomerID = o.CustomerID
JOIN OrderItems oi ON o.OrderID = oi.OrderID
JOIN Products p ON oi.ProductID = p.ProductID
ORDER BY c.LastName, o.OrderDate, p.ProductName;
```

	LastName	FirstName	OrderDate	ProductName	ItemPrice	DiscountAmount	Quantity
1	Albares	Cammy	2020-02-20 08:14:45.000	Fender Stratocaster	699.00	209.70	1
2	Amigon	Minna	2020-02-11 08:21:32.000	Fender Precision	799.99	240.00	1
3	Brown	Christine	2020-01-30 15:22:31.000	Gibson Les Paul	1199.00	359.70	2
4	Butt	James	2020-02-04 06:24:44.000	Fender Stratocaster	699.00	209.70	1
5	Caldarera	Kiley	2020-02-17 17:40:22.000	Fender Stratocaster	699.00	209.70	1
6	Caudy	Chanel	2020-03-09 07:52:55.000	Fender Stratocaster	699.00	209.70	1
7	Caudy	Chanel	2020-03-09 07:52:55.000	Yamaha FG700S	489.99	186.20	1
8	Darakjy	Josephine	2020-02-04 08:15:12.000	Gibson SG	2517.00	1308.84	1
9	Dillard	Leota	2020-02-06 18:41:53.000	Fender Stratocaster	699.00	209.70	1
10	Esway	Heather	2020-02-03 14:59:20.000	Hofner Icon	499.99	125.00	1
11	Esway	Heather	2020-02-12 12:26:52.000	Gibson SG	2517.00	1308.84	1
12	Flosi	Fletcher	2020-03-01 09:11:51.000	Washburn D10S	299.00	0.00	2
13	Foller	Donette	2020-02-05 14:52:17.000	Fender Precision	799.99	240.00	1
14	Garufi	Meaghan	2020-02-21 17:52:24.000	Ludwig 5-piece Drum Set with Cymbals	699.99	210.00	1
15	Goldstein	David	2020-01-31 05:43:11.000	Washburn D10S	299.00	0.00	1
16	Goldstein	David	2020-02-03 12:22:31.000	Fender Stratocaster	699.00	209.70	3
17	Goldstein	David	2020-02-25 23:36:41.000	Fender Precision	799.99	240.00	5
18	Hernandez	Gary	2020-02-02 11:26:38.000	Tama 5-Piece Drum Set with Cymbals	799.99	120.00	1
19	Inouye	Veronika	2020-03-04 03:52:23.000	Fender Precision	799.99	240.00	1
20	Iturbide	Allene	2020-03-08 21:41:29.000	Fender Stratocaster	699.00	209.70	1
21	Kolmetz	Willard	2020-03-04 12:31:33.000	Yamaha FG700S	489.99	186.20	1
22	Maclead	Abel	2020-02-14 07:59:31.000	Fender Stratocaster	699.00	209.70	1
23	Marier	Kris	2020-02-10 09:33:23.000	Tama 5-Piece Drum Set with Cymbals	799.99	120.00	1
24	Marier	Kris	2020-03-01 01:23:23.000	Gibson SG	2517.00	1308.84	1
25	Morasca	Simona	2020-02-06 07:53:42.000	Fender Stratocaster	699.00	209.70	1
26	Morasca	Simona	2020-02-06 07:53:42.000	Rodriguez Caballero 11	415.00	161.85	1
27	Nicka	Bette	2020-03-02 11:36:12.000	Gibson Les Paul	1199.00	359.70	1
28	Nicka	Bette	2020-03-08 22:22:26.000	Fender Stratocaster	699.00	209.70	1

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2/10/2023

STEP 5

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' for the 'MyGuitarShop' database on 'localhost\SqLExpress (SQL Server 15)'. The right pane shows a SQL query in 'SQLQuery1.sql'.

```
USE MyGuitarShop;

SELECT p1.ProductName, p1.ListPrice
FROM Products p1
JOIN Products p2
ON p1.ListPrice = p2.ListPrice
AND p1.ProductID != p2.ProductID
ORDER BY p1.ProductName;
```

Below the query editor, the 'Results' tab is active, displaying the following data:

	ProductName	ListPrice
1	Fender Precision	799.99
2	Tama 5-Piece Drum Set with Cymbals	799.99

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2/10/2023

STEP 6

The screenshot displays the Microsoft SQL Server Enterprise Manager interface. On the left, the Object Explorer shows the database structure for 'localhost\SqLExpress (SQL Server 15)', including 'Databases', 'System Databases', 'Database Snapshots', 'AP', 'Examples', 'MyGuitarShop', 'Database Diagrams', 'Tables', 'System Tables', 'FileTables', 'External Tables', 'Graph Tables', 'dbo.Addresses', and 'Columns'. The 'Columns' list includes 'AddressID (PK)', 'CustomerID (F)', 'Line1 (varchar)', 'Line2 (varchar)', 'City (varchar)', 'State (varchar)', 'ZipCode (varc', 'Phone (varcha', and 'Disabled (int,'.

The main window shows a query titled 'SQLQuery1.sql - lo...CSEUQIV\khbil (53))' with the following SQL code:

```
USE MyGuitarShop;  
  
SELECT Categories.CategoryName, Products.ProductID  
FROM Categories  
LEFT JOIN Products ON Categories.CategoryID = Products.CategoryID  
WHERE Products.ProductID IS NULL;
```

The query results are displayed in a table with the following data:

	CategoryName	ProductID
1	Keyboards	NULL

2/10/2023

STEP 7

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Object Explorer' pane displays the database structure for 'localhost\SqLEXPRESS (SQL Server 15)'. The 'Databases' folder is expanded, showing 'System Databases', 'Database Snapshots', 'AP', 'Examples', 'MyGuitarShop', 'Database Diagrams', 'Tables', 'System Tables', 'FileTables', 'External Tables', 'Graph Tables', and 'dbo.Addresses'. The 'Columns' folder is expanded under 'dbo.Addresses', showing 'AddressID (PK)', 'CustomerID (F)', 'Line1 (varchar)', 'Line2 (varchar)', 'City (varchar)', 'State (varchar)', 'ZipCode (varchar)', 'Phone (varchar)', 'Disabled (int)', 'Keys', 'Constraints', 'Triggers', 'Indexes', and 'Statistics'. The 'Columns' folder is also expanded under 'dbo.Administrators', 'dbo.Categories', and 'dbo.Customers'. The 'Columns' folder is expanded under 'dbo.Customers', showing 'CustomerID (F)', 'EmailAddress', 'Password (var)', 'FirstName (va)', and 'LastName (va)'. The 'SQL Query Editor' pane on the right shows a query named 'SQLQuery1.sql' with the following SQL code:

```
USE MyGuitarShop;

SELECT 'SHIPPED' AS ShipStatus, OrderID, OrderDate
FROM Orders
WHERE ShipDate IS NOT NULL
UNION
SELECT 'NOT SHIPPED' AS ShipStatus, OrderID, OrderDate
FROM Orders
WHERE ShipDate IS NULL
ORDER BY OrderDate;
```

The query results are displayed in the 'Results' pane, showing a table with 3 columns: 'ShipStatus', 'OrderID', and 'OrderDate'. The table contains 23 rows of data, all with 'SHIPPED' status. The first row is highlighted with a dashed border.

	ShipStatus	OrderID	OrderDate
1	SHIPPED	1	2020-01-28 09:40:28.000
2	SHIPPED	2	2020-01-28 11:23:20.000
3	SHIPPED	3	2020-01-29 09:44:58.000
4	SHIPPED	4	2020-01-30 15:22:31.000
5	SHIPPED	5	2020-01-31 05:43:11.000
6	SHIPPED	6	2020-01-31 18:37:22.000
7	SHIPPED	7	2020-02-01 23:11:12.000
8	SHIPPED	8	2020-02-02 11:26:38.000
9	SHIPPED	9	2020-02-03 12:22:31.000
10	SHIPPED	10	2020-02-03 14:59:20.000
11	SHIPPED	11	2020-02-04 06:24:44.000
12	SHIPPED	12	2020-02-04 08:15:12.000
13	SHIPPED	13	2020-02-04 11:20:31.000
14	SHIPPED	14	2020-02-05 09:24:53.000
15	SHIPPED	15	2020-02-05 14:52:17.000
16	SHIPPED	16	2020-02-06 07:53:42.000
17	SHIPPED	17	2020-02-06 17:24:28.000
18	SHIPPED	18	2020-02-06 18:41:53.000
19	SHIPPED	19	2020-02-08 12:21:31.000
20	SHIPPED	20	2020-02-10 09:33:23.000
21	SHIPPED	21	2020-02-11 08:21:32.000
22	SHIPPED	22	2020-02-12 12:26:52.000
23	SHIPPED	23	2020-02-14 07:59:31.000