

KariAnn Harjo  
Prof Danila  
ITSE 2409  
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## Lab 6

The screenshot shows the SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the database structure for 'localhost\SqLExpress (SQL Server 15.0.2)'. The 'MyGuitarShop' database is expanded, showing various system and user tables. The 'Tables' folder is selected, listing tables such as 'dbo.Addresses', 'dbo.Administrators', 'dbo.Categories', 'dbo.Customers', 'dbo.OrderItems', 'dbo.Orders', and 'dbo.Products'. The 'dbo.Categories' table is highlighted.

The main query window, titled 'SQLQuery1.sql - lo...CSEUQ\I\khbil (67))\*', contains the following SQL query:

```
USE MyGuitarShop;

SELECT DISTINCT CategoryName
FROM dbo.Categories
WHERE CategoryID IN (
    SELECT CategoryID
    FROM Products
)
ORDER BY CategoryName;
```

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

	CategoryName
1	Basses
2	Drums
3	Guitars

KariAnn Harjo  
Prof Danila  
ITSE 2409  
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The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'Server Explorer' pane shows the hierarchy of the 'MyGuitarShop' database, including tables like 'Products'. The main pane shows a SQL query in 'SQLQuery1.sql'.

```
USE MyGuitarShop;

SELECT ProductName, ListPrice
FROM Products
WHERE ListPrice > (SELECT AVG(ListPrice) FROM Products)
ORDER BY ListPrice DESC
```

Below the query editor, the 'Results' pane shows the output of the query as a table with two columns: 'ProductName' and 'ListPrice'.

	ProductName	ListPrice
1	Gibson SG	2517.00
2	Gibson Les Paul	1199.00

KariAnn Harjo  
Prof Danila  
ITSE 2409  
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The screenshot shows the SQL Server Enterprise Manager interface on the left and the SQL Query Editor on the right. The Enterprise Manager tree on the left shows the 'MyGuitarShop' database selected, with the 'Tables' folder expanded, listing various tables including 'dbo.Categories' and 'dbo.Products'. The SQL Query Editor on the right contains the following T-SQL query:

```
USE MyGuitarShop;

SELECT CategoryName
FROM Categories
WHERE NOT EXISTS (
    SELECT *
    FROM Products
    WHERE Categories.CategoryID = Products.CategoryID
)
```

Below the query editor, the 'Results' tab is active, displaying a single row of data:

	CategoryName
1	Keyboards

KariAnn Harjo

Prof Danila

ITSE 2409

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The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Object Explorer' pane displays the 'MyGuitarShop' database structure, including tables like 'dbo.Orders', 'dbo.Products', 'dbo.Customers', and 'dbo.OrderItems'. The 'Columns' pane for 'dbo.OrderItems' is expanded, showing fields like 'ItemID', 'OrderID', 'ProductID', 'ItemPrice', 'DiscountAmount', and 'Quantity'. The 'SQL Query Editor' pane on the right contains the following SQL query:

```
USE MyGuitarShop;

SELECT Customers.EmailAddress, OrderItems.OrderID, SUM(OrderItems.Quantity * OrderItems.ItemPrice) as OrderTotal
FROM Customers
JOIN Orders ON Customers.CustomerID = Orders.CustomerID
JOIN OrderItems ON Orders.OrderID = OrderItems.OrderID
GROUP BY Customers.EmailAddress, OrderItems.OrderID
```

Below the query, the 'Results' pane shows the output of the query as a table with 15 rows. The columns are 'EmailAddress', 'OrderID', and 'OrderTotal'.

	EmailAddress	OrderID	OrderTotal
1	allan.sherwood@yahoo.com	1	1199.00
2	banyz@gmail.com	2	489.99
3	allan.sherwood@yahoo.com	3	2932.00
4	christineb@solarone.com	4	2398.00
5	david.goldstein@hotmail.com	5	299.00
6	erinv@gmail.com	6	299.00
7	frankwilson@sbcglobal.net	7	2199.97
8	gary_hernandez@yahoo.com	8	799.99
9	david.goldstein@hotmail.com	9	2097.00
10	heatheresway@mac.com	10	499.99
11	jbutt@gmail.com	11	699.00
12	Josephine_darakij@darakij.org	12	2517.00
13	art@venere.org	13	799.99
14	lpaprocki@hotmail.com	14	2398.00
15	donette.foller@cox.net	15	799.99

KariAnn Harjo

Prof Danila

ITSE 2409

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The screenshot shows the SQL Server Enterprise Manager interface. On the left, the 'Project Explorer' pane displays the database structure for 'MyGuitarShop', including tables like 'dbo.Orders', 'dbo.Products', and 'dbo.OrderItems'. The main window shows a SQL query in 'SQLQuery1.sql' that uses a subquery to find the largest order for each customer. The 'Results' pane at the bottom displays the output of the query, showing a list of email addresses and their corresponding largest order totals.

```
USE MyGuitarShop;

SELECT EmailAddress, MAX(OrderTotal) as LargestOrder
FROM (
    SELECT Customers.EmailAddress, OrderItems.OrderID, SUM(OrderItems.Quantity * OrderItems.ItemPrice) as OrderTotal
    FROM Customers
    JOIN Orders ON Customers.CustomerID = Orders.CustomerID
    JOIN OrderItems ON Orders.OrderID = OrderItems.OrderID
    GROUP BY Customers.EmailAddress, OrderItems.OrderID
) AS OrderTotals
GROUP BY EmailAddress
```

	EmailAddress	LargestOrder
1	alisha@slusarski.com	2398.00
2	allan.sherwood@yahoo.com	2932.00
3	allene_turbide@cox.net	699.00
4	amaclead@gmail.com	699.00
5	art@venere.org	799.99
6	bamy@gmail.com	489.99
7	bette_nicka@cox.net	1199.00
8	calbares@gmail.com	699.00
9	chanel.caudy@caudy.org	1188.99
10	christineb@solarone.com	2398.00
11	david.goldstein@hotmail.com	3999.95
12	donette.foller@cox.net	799.99
13	erin@gmail.com	299.00
14	fletcher.flosi@yahoo.com	598.00
15	frankwilson@sbcglobal.net	2199.97
16	gary_hernandez@yahoo.com	799.99

KariAnn Harjo  
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The screenshot shows the Microsoft SQL Server Enterprise Manager interface. On the left, the Object Explorer displays the database structure for 'MyGuitarShop', including tables like 'Products', 'Orders', and 'OrderItems'. The main window shows a SQL query in 'SQLQuery1.sql' that filters products with a discount percentage greater than 1. The query results are displayed in a table with two columns: 'Product Name' and 'Discount Percent'.

```
USE MyGuitarShop;

SELECT ProductName, DiscountPercent
FROM Products
WHERE DiscountPercent IN (
    SELECT DiscountPercent
    FROM Products
    GROUP BY DiscountPercent
    HAVING COUNT(*) = 1
)
ORDER BY ProductName
```

	Product Name	Discount Percent
1	Gibson SG	52.00
2	Hofner Icon	25.00
3	Rodriguez Caballero 11	39.00
4	Tama 5-Piece Drum Set with Cymbals	15.00
5	Washburn D10S	0.00
6	Yamaha FG700S	38.00

KariAnn Harjo  
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The screenshot displays the Microsoft SQL Server Enterprise Manager interface. On the left, the Object Explorer shows the database structure for 'MyGuitarShop', including tables like 'dbo.Orders' and 'dbo.Products'. The central pane shows a SQL query in 'SQLQuery1.sql' that uses the 'MyGuitarShop' database and selects email addresses, order IDs, and order dates from the 'Customers' and 'Orders' tables, filtered by the minimum order date for each customer. The bottom pane shows the results of this query as a table with 14 rows.

```
USE MyGuitarShop;

SELECT
    c.EmailAddress,
    o.OrderID,
    o.OrderDate
FROM
    Customers c
JOIN Orders o ON c.CustomerID = o.CustomerID
WHERE
    o.OrderDate = (
        SELECT MIN(OrderDate)
        FROM Orders
        WHERE CustomerID = c.CustomerID
    )
```

	EmailAddress	OrderID	OrderDate
1	allan.sherwood@yahoo.com	1	2020-01-28 09:40:28.000
2	banyz@gmail.com	2	2020-01-28 11:23:20.000
3	christineb@solarone.com	4	2020-01-30 15:22:31.000
4	david.goldstein@hotmail.com	5	2020-01-31 05:43:11.000
5	erinv@gmail.com	6	2020-01-31 18:37:22.000
6	frankwilson@sbcglobal.net	7	2020-02-01 23:11:12.000
7	gary_hernandez@yahoo.com	8	2020-02-02 11:26:38.000
8	heatheresway@mac.com	10	2020-02-03 14:59:20.000
9	jbutt@gmail.com	11	2020-02-04 06:24:44.000
10	josephine_darakjy@darakjy.org	12	2020-02-04 08:15:12.000
11	art@venere.org	13	2020-02-04 11:20:31.000
12	lpaprocki@hotmail.com	14	2020-02-05 09:24:53.000
13	donette.foller@cox.net	15	2020-02-05 14:52:17.000
14	simona@morasca.com	16	2020-02-06 07:53:42.000