Exercise 9 – Joins for MyGuitarShop

johnstons1@student.ncmich.edu

October 30, 2018

Contents

1	Select CategoryName, ProductName, ListPrice	1
2	Get Allan Sherwood's information	9
3	Get shipping addresses	4
4	Summarize orders with aliases	Ę
5	Names of products with the same price	7
6	Return categories which have never been used	8
7	Union of Shipped and Not Shipped orders sorted by OrderDate	10
\mathbf{L}	ist of Figures	
	1 Per 1	2
	2 Per 2	
	3 Per 3	
	4 Per 4	
	5 Per 5	
	6 Per 6	
	7 Per 7	

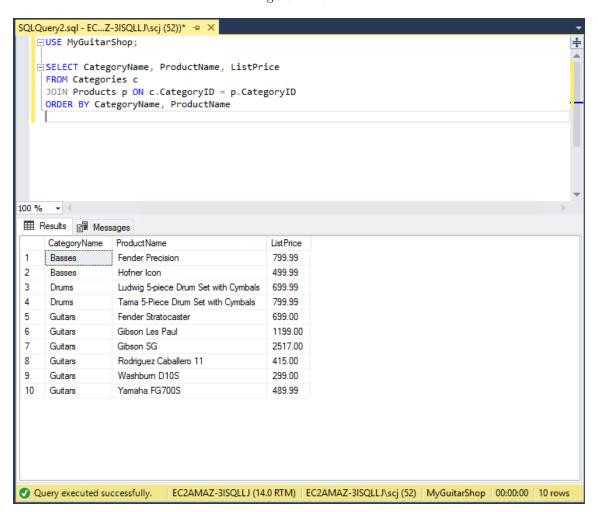
1 Select CategoryName, ProductName, ListPrice

See figure 1

USE MyGuitarShop; SELECT CategoryName, ProductName, ListPrice FROM Categories c JOIN Products p ON c.CategoryID = p.CategoryID

ORDER BY CategoryName, ProductName

Figure 1: Per 1



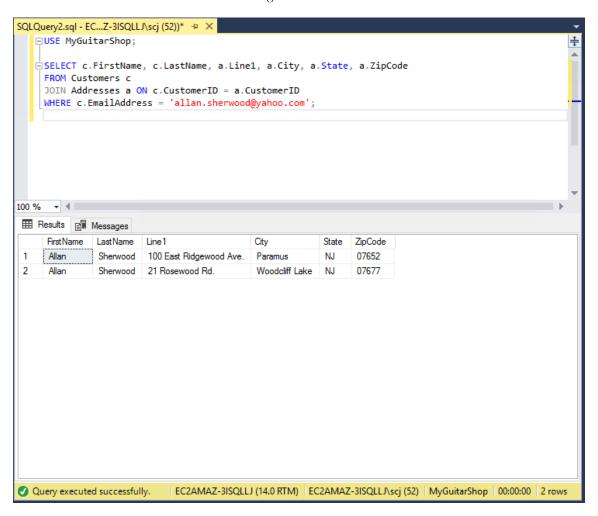
2 Get Allan Sherwood's information

See figure 2

```
USE MyGuitarShop;

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

Figure 2: Per 2



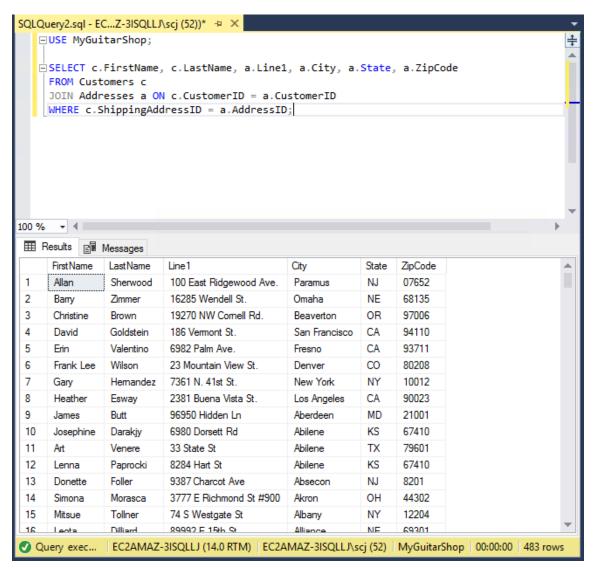
3 Get shipping addresses

```
See figure 3
```

```
USE MyGuitarShop;

SELECT c.FirstName, c.LastName, a.Line1, a.City, a.State, a.ZipCode
FROM Customers c
JOIN Addresses a ON c.CustomerID = a.CustomerID
WHERE c.ShippingAddressID = a.AddressID;
```

Figure 3: Per 3



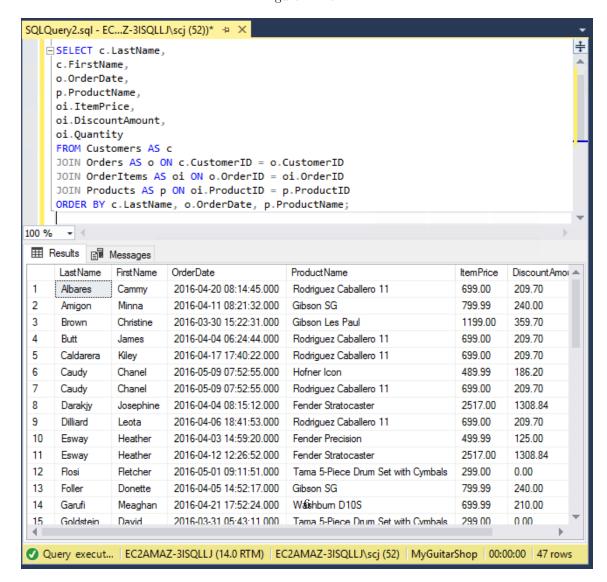
4 Summarize orders with aliases

Sorted by LastName, OrderDate, and ProductName See figure 4

```
USE MyGuitarShop;

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

Figure 4: Per 4



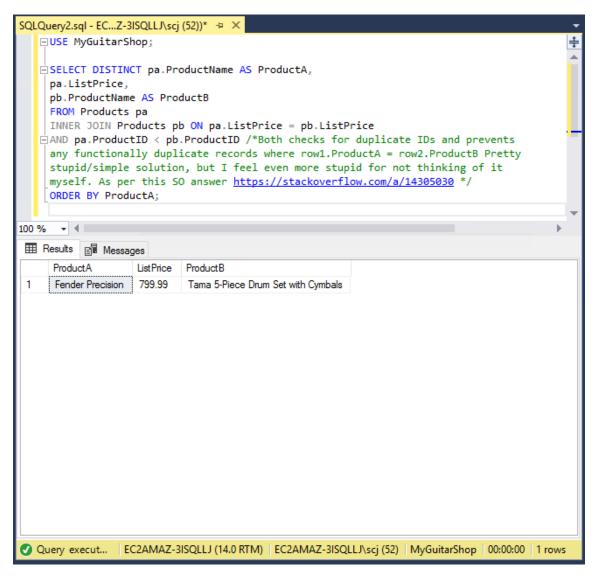
5 Names of products with the same price

See figure 5

USE MyGuitarShop;

SELECT DISTINCT pa.ProductName AS ProductA,
pa.ListPrice,
pb.ProductName AS ProductB
FROM Products pa
INNER JOIN Products pb ON pa.ListPrice = pb.ListPrice
AND pa.ProductID < pb.ProductID /*Both checks for duplicate IDs and prevents
any functionally duplicate records where row1.ProductA = row2.ProductB Pretty
stupid/simple solution, but I feel even more stupid for not thinking of it
myself. As per this SO answer https://stackoverflow.com/a/14305030 */
ORDER BY ProductA;

Figure 5: Per 5



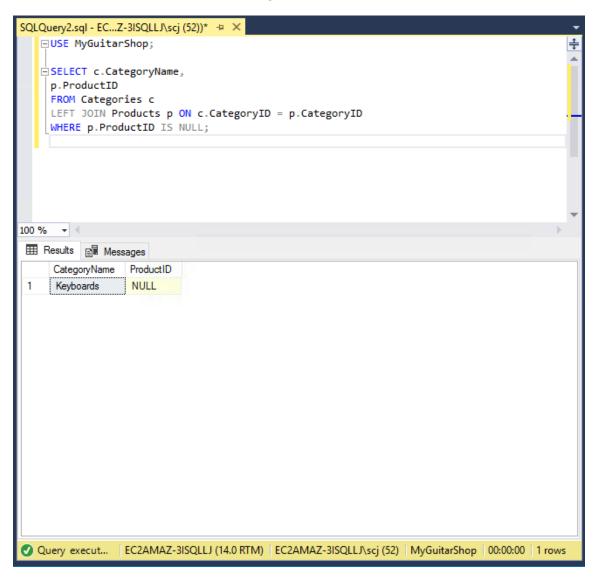
6 Return categories which have never been used

See figure 6

```
USE MyGuitarShop;

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

Figure 6: Per 6



7 Union of Shipped and Not Shipped orders sorted by OrderDate

```
See figure 7

USE MyGuitarShop;

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

Figure 7: Per 7

