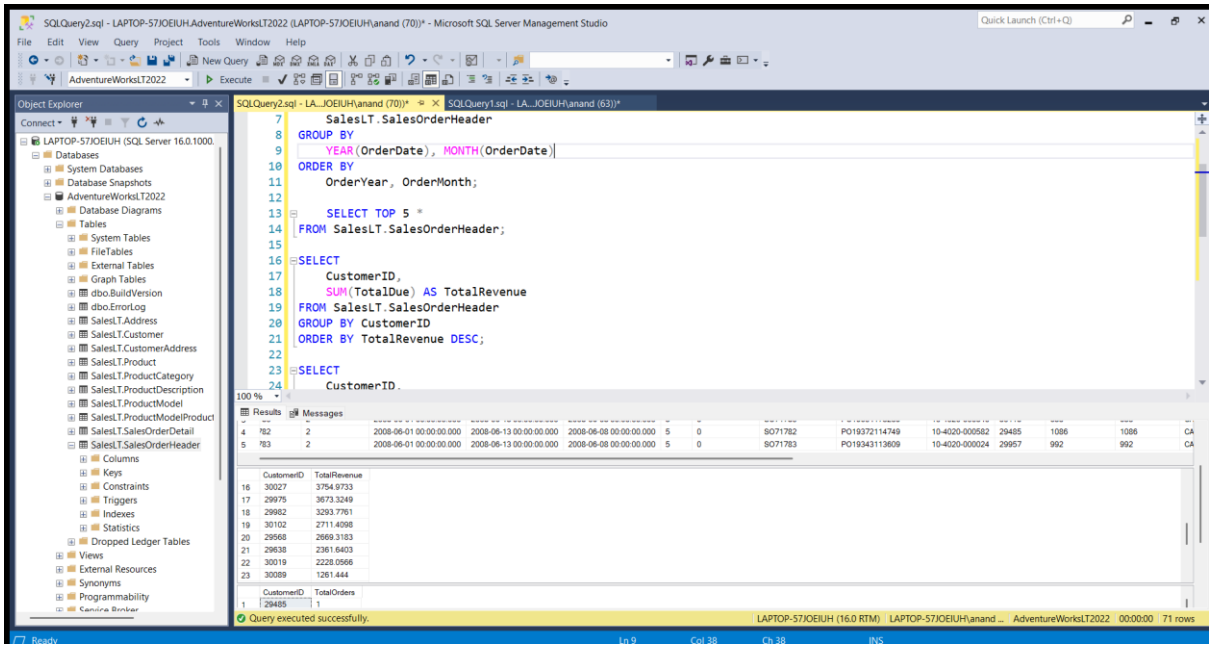
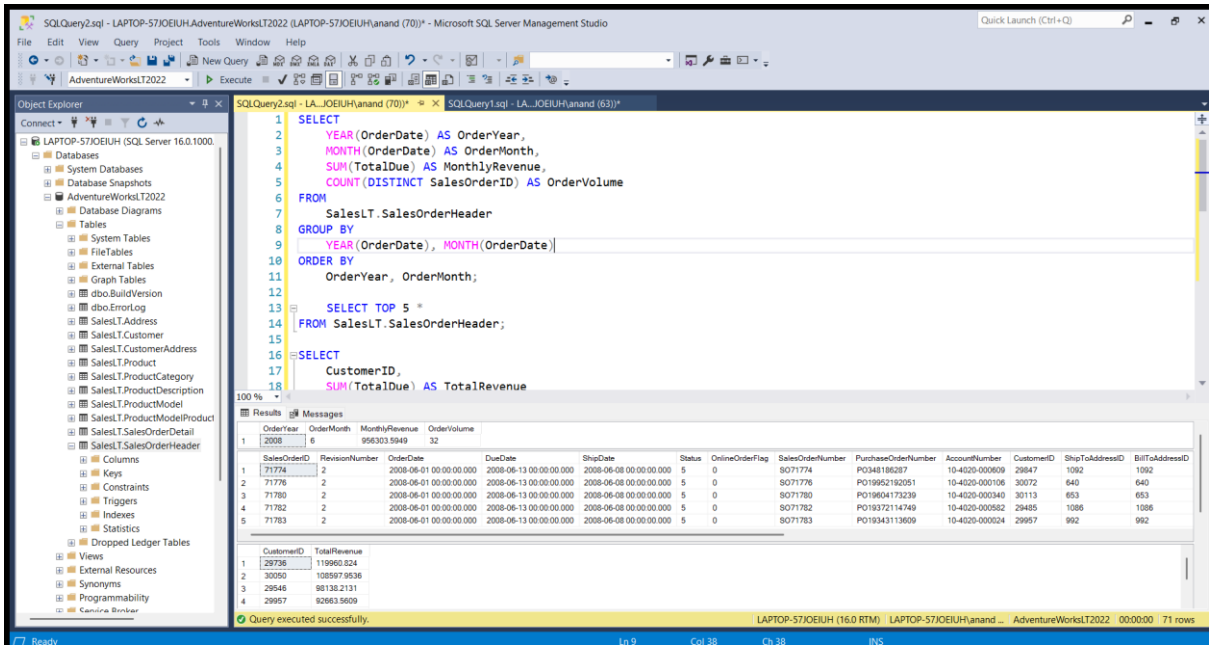
Sales Trend Analysis Using Aggregations Using SQL

```
SELECT
   YEAR(OrderDate) AS OrderYear,
   MONTH(OrderDate) AS OrderMonth,
   SUM(TotalDue) AS MonthlyRevenue,
   COUNT(DISTINCT SalesOrderID) AS OrderVolume
FROM
   SalesLT.SalesOrderHeader
GROUP BY
   YEAR(OrderDate), MONTH(OrderDate)
ORDER BY
   OrderYear, OrderMonth;


        SELECT TOP 5 *
FROM SalesLT.SalesOrderHeader;


SELECT
   CustomerID,
   SUM(TotalDue) AS TotalRevenue
FROM SalesLT.SalesOrderHeader
GROUP BY CustomerID
ORDER BY TotalRevenue DESC;


SELECT
   CustomerID,
   COUNT(SalesOrderID) AS TotalOrders
FROM SalesLT.SalesOrderHeader
GROUP BY CustomerID
```

```
ORDER BY TotalOrders DESC;


SELECT
    ShipMethod,
    COUNT(*) AS OrderCount
FROM SalesLT.SalesOrderHeader
GROUP BY ShipMethod
ORDER BY OrderCount DESC;
```

RESULT:


SQLQuery2.sql - LAPTOP-57JOEIUH.AdventureWorksLT2022 (LAPTOP-57JOEIUH\anand (70))* - Microsoft SQL Server Management Studio
File Edit View Query Project Tools Window Help
New Query
AdventureWorksLT2022
Execute
Object Explorer
Connect
LAPTOP-57JOEIUH (SQL Server 16.0.1000.
Databases
System Databases
Database Snapshots
AdventureWorksLT2022
Database Diagrams
Tables
System Tables
FileTables
External Tables
Graph Tables
dbo.BuildVersion
dbo.ErrorLog
SalesLT.Address
SalesLT.Customer
SalesLT.CustomerAddress
SalesLT.Product
SalesLT.ProductCategory
SalesLT.ProductDescription
SalesLT.ProductModel
SalesLT.ProductModelProduct
SalesLT.SalesOrderDetail
SalesLT.SalesOrderHeader
Columns
Keys
Constraints
Triggers
Indexes
Statistics
Dropped Ledger Tables
Views
External Resources
Synonyms
Programmability
SQLQuery2.sql - LA...JOEIUH\anand (70))*
SQLQuery1.sql - LA...JOEIUH\anand (63))*
SalesLT.SalesOrderHeader
GROUP BY
YEAR(OrderDate), MONTH(OrderDate)
ORDER BY
OrderYear, OrderMonth;
SELECT TOP 5 *
FROM SalesLT.SalesOrderHeader;
SELECT
CustomerID,
SUM(TotalDue) AS TotalRevenue
FROM SalesLT.SalesOrderHeader
GROUP BY CustomerID
ORDER BY TotalRevenue DESC;
SELECT
CustomerID,
100 %
Results
Messages
CustomerID TotalRevenue
30027 3754.9733
29975 3673.3249
29962 3293.7761
30102 2711.4098
29568 2669.3183
29638 2361.6403
30019 2228.0566
30089 1261.444
CustomerID TotalOrders
29485 1
Query executed successfully.
LAPTOP-57JOEIUH (16.0 RTM)
LAPTOP-57JOEIUH\anand ...
AdventureWorksLT2022
00:00:00
71 rows
Ready
Ln 9
Col 38
Ch 38
INS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SQLQuery2.sql - LA...JOEIUH\anand (70))*
SQLQuery1.sql - LA...JOEIUH\anand (63))*
SELECT
YEAR(OrderDate) AS OrderYear,
MONTH(OrderDate) AS OrderMonth,
SUM(TotalDue) AS MonthlyRevenue,
COUNT(DISTINCT SalesOrderID) AS OrderVolume
FROM
SalesLT.SalesOrderHeader
GROUP BY
YEAR(OrderDate), MONTH(OrderDate)
ORDER BY
OrderYear, OrderMonth;
SELECT TOP 5 *
FROM SalesLT.SalesOrderHeader;
SELECT
CustomerID,
SUM(TotalDue) AS TotalRevenue
100 %
Results
Messages
OrderYear OrderMonth MonthlyRevenue OrderVolume
2008 6 956303.5949 32
SalesOrderID RevisionNumber OrderDate DueDate ShipDate Status OnlineOrderFlag SalesOrderNumber PurchaseOrderNumber AccountNumber CustomerID ShipToAddressID BillToAddressID
71774 2 2008-06-01 00:00:00.000 2008-06-13 00:00:00.000 2008-06-08 00:00:00.000 5 0 SO71774 PO348186287 10-4020-000609 29847 1092 1092
71776 2 2008-06-01 00:00:00.000 2008-06-13 00:00:00.000 2008-06-08 00:00:00.000 5 0 SO71776 PO19952192051 10-4020-000106 30072 640 640
71780 2 2008-06-01 00:00:00.000 2008-06-13 00:00:00.000 2008-06-08 00:00:00.000 5 0 SO71780 PO19604173239 10-4020-000340 30113 653 653
71782 2 2008-06-01 00:00:00.000 2008-06-13 00:00:00.000 2008-06-08 00:00:00.000 5 0 SO71782 PO19372114749 10-4020-000582 29485 1086 1086
71783 2 2008-06-01 00:00:00.000 2008-06-13 00:00:00.000 2008-06-08 00:00:00.000 5 0 SO71783 PO19343113609 10-4020-000024 29957 992 992
CustomerID TotalRevenue
29736 119960.824
30050 108597.9536
29546 98138.2131
29957 92663.5609
Query executed successfully.
LAPTOP-57JOEIUH (16.0 RTM)
LAPTOP-57JOEIUH\anand ...
AdventureWorksLT2022
00:00:00
71 rows
Ready
Ln 9
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