

Advanced Query Analysis

IS240 – DBMS

Supplement to Chapter 5

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Topics

- Sally's Pet Store: Problem 5-01
- Start with Calculation of Order Values
- Save the Query
- Document the Query
- Query is Saved
- Then Use the Stored Query in the Complete Query
- Use TOP operator to Restrict Output

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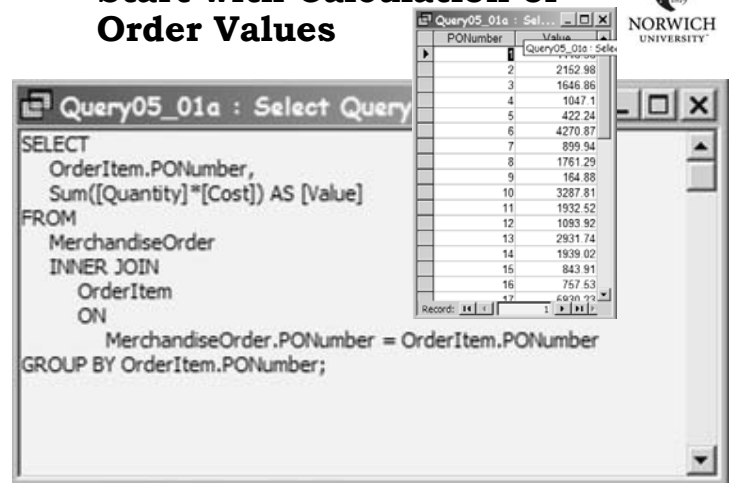
Sally's Pet Store: Problem 5-01

- Which supplier has the highest average percentage of shipping cost per value of merchandise order?
- First, compute the value of each order
 - Store the query as Query05_01a
- Then use the synthetic table of values from Query05_01a to prepare a new synthetic table
 - Combines the supplier info with the order info
 - Allows computation of percentage
 - Sort data

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Start with Calculation of Order Values



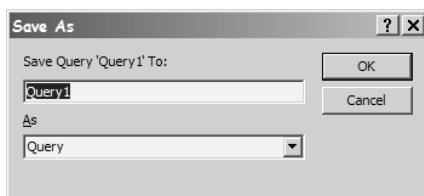
The screenshot shows a query editor window titled 'Query05_01a : Select Query' with the following SQL code:

```
SELECT
  OrderItem.PONumber,
  Sum([Quantity]*[Cost]) AS [Value]
FROM
  MerchandiseOrder
  INNER JOIN
  OrderItem
  ON
  MerchandiseOrder.PONumber = OrderItem.PONumber
GROUP BY OrderItem.PONumber;
```

Next to the query editor is a data grid window titled 'Query05_01a : Sel...' showing the results of the query:

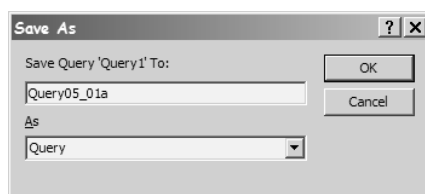
PONumber	Value
1	2152.98
2	1646.86
3	1047.1
4	422.24
5	4270.87
6	899.94
7	1761.29
8	164.88
9	3287.81
10	1932.52
11	1083.92
12	2931.74
13	1939.02
14	843.91
15	757.53
16	6970.92
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Save the Query



The screenshot shows a 'Save As' dialog box with the following fields:

- Save Query 'Query1' To: Query1
- As: Query



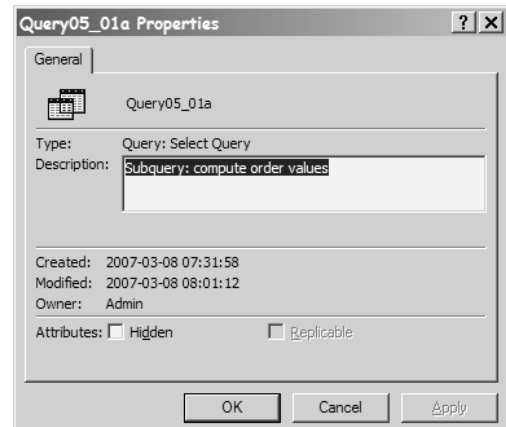
The screenshot shows a 'Save As' dialog box with the following fields:

- Save Query 'Query1' To: Query05_01a
- As: Query

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Document the Query



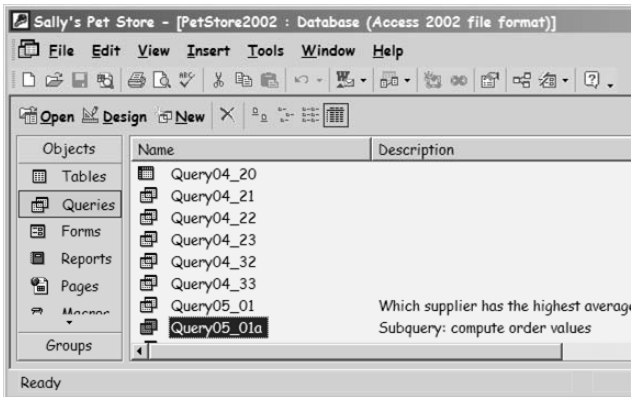
The screenshot shows the 'Query05_01a Properties' dialog box with the following information:

- General tab selected
- Query05_01a
- Type: Query: Select Query
- Description: Subquery: compute order values
- Created: 2007-03-08 07:31:58
- Modified: 2007-03-08 08:01:12
- Owner: Admin
- Attributes: Hidden Replicable

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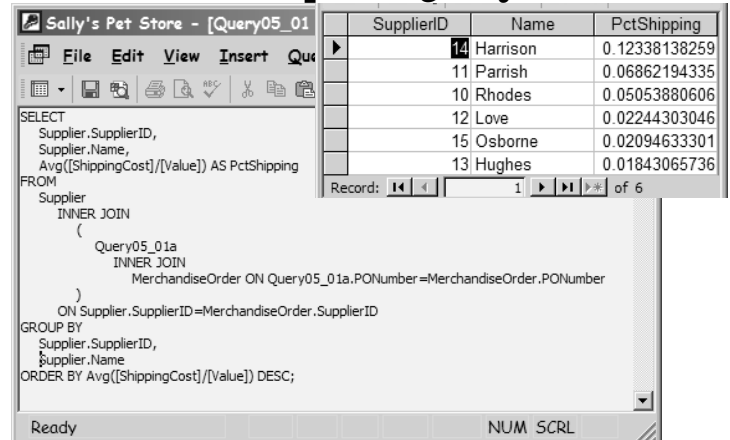
Query is Saved



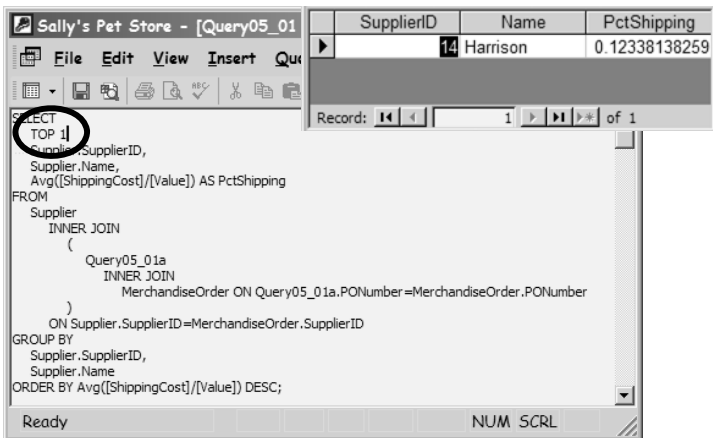
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Then Use the Stored Query in the Complete Query



Use TOP operator to Restrict Output



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DISCUSSION