Multiple Table Join

Rishi H. Heerasing
Lecturer

School of Innovative Technologies and Engineering
UTM

Learning Outcomes

- Learning about Linking

- Adding Multiple Tables to a Report

- Using the Database Expert to Link Tables

Multiple Table Join

- Linking is a normal process when using relational databases.

- Links shows the relationship between tables within a database.

- Very often, it is necessary to pull data from several tables or even several databases concurrently.

- Performance-wise, it is preferable to use ODBC or OLEDB when using several database of similar types.

Multiple Table Join

- As an example, create a blank report and create two ODBC connections to Xtreme and Northwind2008.

- Add the _Customers_ table from Northwind and _Orders_ table from Xtreme.

- Invoke Database Expert by clicking on its icon.

- Click on the Links tab, is there any links between the tables? _Why?_
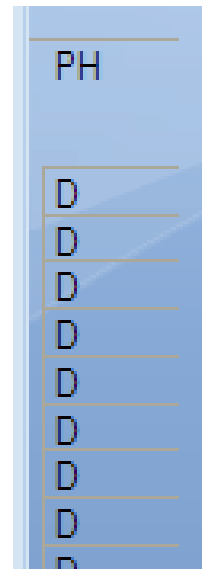
Multiple Table Join

- Auto-Link by Name or Key does not work... *Why?*

- There is no common Field Names, nor any common Keys. *(CustomerID is not the same as Customer ID)*

- As a hypothetical example, we'll choose two keys which have similar data and format.

- Link up CustomerID and Order ID manually by dragging from one field to another.

- By default the relationship is *innerjoin* on *equal*.

Multiple Table Join

- Add CustomerID and Order Amount to the report and Preview. *Are any records going to be returned?*

- Even though the CustomerID and Order Amount have nothing in common, records are returned because of the link we have just created.

CustomerID	Order Amount
1,002	$5,060.28
1,003	$186.87
1,004	$823.05
1,005	$29.00
1,006	$64.90
1,007	$49.50
1,008	$2,214.94
1,009	$29.00
1,010	$14,872.30

Multiple Table Join

Task 6a

- Create a report as faithfully as this one.

- Database is Northwind2008.mdb.

- Tables is Product, Suppliers, Orders, OrderDetails.

- Save your report as 6a.rpt