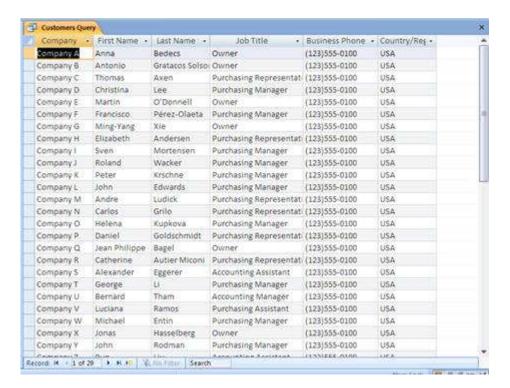
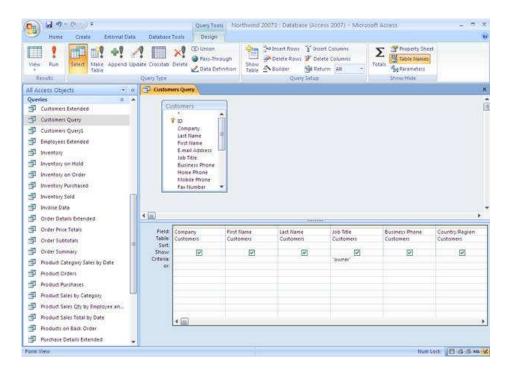
Database Management Systems and MS Access

Attached are some pictures that might help to illustrate the difference between a query and a report.

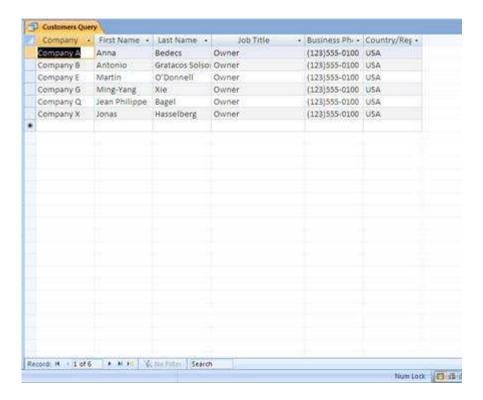
Example 1:



01_QueryData - Here we see raw data in the form of an customer table.



01_QueryDesign - A programmer or database administrator then designs the query. In this case, it's just a simple listing of all Customers who are owners.



01_QueryResult - A table is generated that displays all customers who match the query criteria.

- **Points worth mentioning:
- -Queries are typically generated ad hoc by an IT professional.
- -They are rough in presentation, and typically detailed in nature.
- -No added explanation is given for why this report might be useful.

Example 2: (Sample query but with a report added)

We can assume that a table with a listing of employees exists.

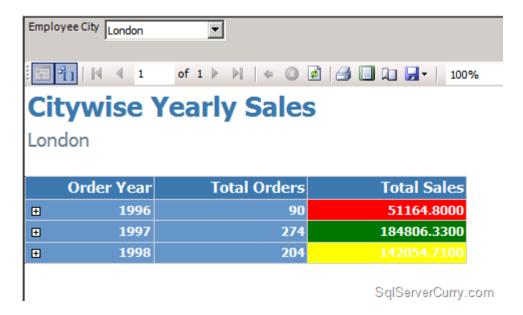
```
USE Northwind
GO

SELECT E.City 'Employee City', YEAR(O.RequiredDate)
OrderYear, COUNT(O.OrderID) 'Total Orders',
SUM(OD.UnitPrice * OD.Quantity) 'Total Sales'
FROM Orders O INNER JOIN [Order Details] OD
ON O.OrderID = OD.OrderID
INNER JOIN Products P
ON OD.ProductID = P.ProductID
INNER JOIN Employees E
ON O.EmployeeID=E.EmployeeID
where E.City='LONDON'
GROUP BY E.City, P.ProductName, YEAR(O.RequiredDate)
```

02_Query -> Queries can sometimes be very cryptic. This query uses SQL (Structure Query Language) statements to generate a query that shows a sales employee's city, year, and the total value of orders taken by them in that year. It would be very hard for somebody without a databasing background to create this query.

⊞ F	Results 🛅 Mes	sages		
	Employee City	OrderYear	Total Orders	Total Sales
1	London	1996	1	249.60
2	London	1996	1	240.00
3	London	1996	1	588.00
4	London	1996	1	2176.00
5	London	1996	2	504.00
6	London	1996	4	1550.40
7	London	1996	1	864.00
8	London	1996	1	316.89qlServerCurry.com

02_QueryResult -> Shows the output of this particular query

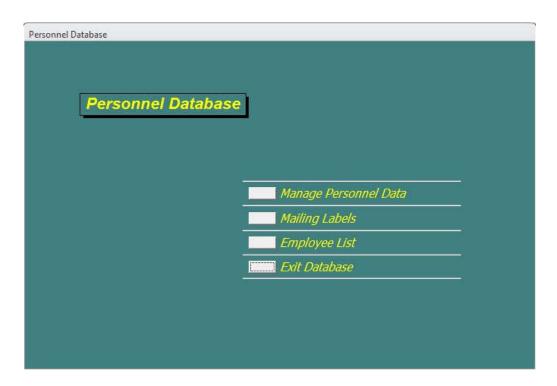


02_Report -> Demonstrates the difference between a Report and a Query

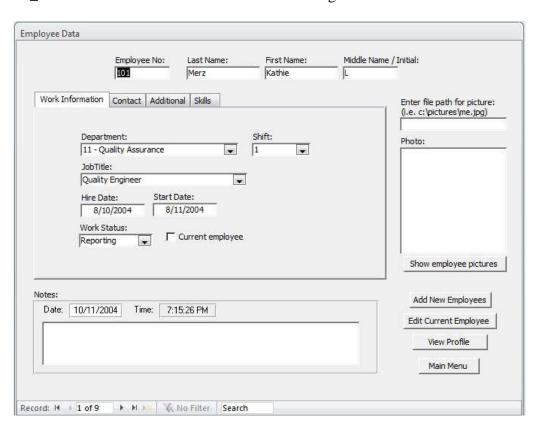
- -Note the summary nature of this report
- -Colorful / interesting presentation
- -The report offers additional insight to an executive by aggregating the results.

Example 3: (Screen shots of what an employee might use at the front end to enter data and generate reports)

^{**}Points worth mentioning:



03_Menu - Demonstrates what a menu screen might look like for an end user.



03_DataEntryScreen - Here we see a sample data entry screen for an employee named 'Kathie Merz'

Employee Profile	Merz	: Kathie L (101)		
General Information				
Employee No: 101		Birthdate: 01-Ju	n-67	
Shife 1		Address: 247 R	avitz Track	
JobTitle: Quality Engine	er	12.0		
Department: Quality Assura		Ocala, Fibrida 34		
Work Phone: (555) 555-0943	3 ext.3505	Home Phone: (555) 555-0638 ext. Cell / Pager: (555) 555-8202 ext.		
E-Mail: kmerz@drewsi	lair.com	Cell / Pager: (555)	555-62UZ EXI	
Employment Information				
Hire Date: 10-Aug-04	Start Date: 11-Aug-04	Current:	Status: Reporting	
EEOC Data				
Gender Female	Race: White	☑ Vete ra	n 🗆 Handibap	
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Skill Design of Experiments Ourien	9.5	nmunity college		
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Skill Design of Experiments Current Material Analysis 5 years	tly teaching a course at con	nmunity college		
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03_SampleReport - Sample report for KAthie Merz generated by the system.