

Reports

INFO/CSE 100, Autumn 2004
Fluency in Information Technology

<http://www.cs.washington.edu/100>

Readings and References

- Reference
 - » MS Access Help files
 - Section “Reports and Report Snapshots”

Views as Tables

- Recall that the result of a query is a table
- We have been presenting the table to the user in simple tabular form

ISBN	Title	Price	Name
1-2	Your Reader	\$12.00	Another Press
2-2	His Reader	\$25.00	Another Press

Name	ISBN	Title
Alex	1-1	My Reader
Alex	1-2	Your Reader

ISBN	Title	Price	authors.Name	publishers.Nam
1-1	My Reader	\$10.00	Alex	A Press

But tables are not pretty ...



Users need help understanding what they are looking at and what they can do with it ...

... so we developed Forms for controlling the display of data for the user who is reviewing or updating specific records.



Views as Forms

A form is primarily used to enter or display data in a database

Employee Record Form

ID: 4 PhotoID: 4
Last: Peacock ImagePath: images/image4.gif
First: Margaret
JobID: 2
Hire: 03-May-93
Street: 4110 Old Redmond Rd
City: Kirkland
State: WA
Country: USA
Title: Engineer
Paycode: 4

Record: 4 of 12

Last lecture we developed Forms for better display to the user while updating the table.

Forms are pretty but not very compact



One Portland Way, Twin Falls WA 98156
Phone: 1-206-555-1417 Fax: 1-206-555-5959

Ship To: Rattlesnake Canyon Grocery
2817 Milton Dr.
Albuquerque NM 87110
USA

Bill To: Rattlesnake Canyon Grocery
2817 Milton Dr.
Albuquerque NM 87110
USA

Users like to have reports densely packed with information and logically arranged ...

Order ID:	Customer ID:	Salesperson:	Order Date:	Required Date:	Shipped Date:	Ship Via:
11077	RATTC	Nancy Davolio	06-May-1998	03-Jun-1998		United Package

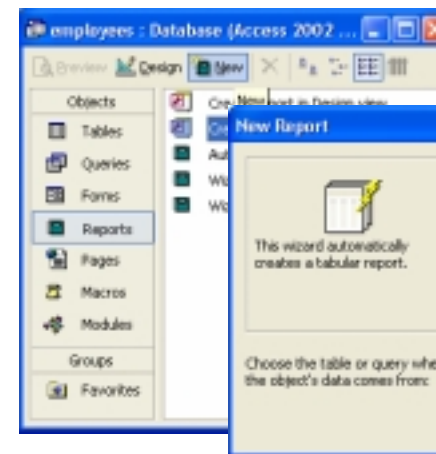
Product ID:	Product Name:	Quantity:	Unit Price:	Discount:	Extended Price:
2	Chang	24	\$19.00	20%	\$364.80
3	Aniseed Syrup	4	\$10.00	0%	\$40.00
4	Chef Anton's Cajun Seasoning	1	\$22.00	0%	\$22.00
6	Grandma's Boysenberry Spread	1	\$25.00	2%	\$24.50
7	Uncle Bob's Organic Dried Pears	1	\$30.00	5%	\$28.50

... so this lecture we will develop **Reports** for compact display of multiple records.

A Report is another face for a table (or query)

- The report lets the designer arrange the data, label it, provide some control over events, etc
 - » the **presentation**
 - » multiple presentations are possible depending on the specific needs of each user
- Underlying data comes from a table or a query
 - » the **content**
 - » single source of data ensures consistency

How does a report get built?



The New Report wizard can build a complete report for you.

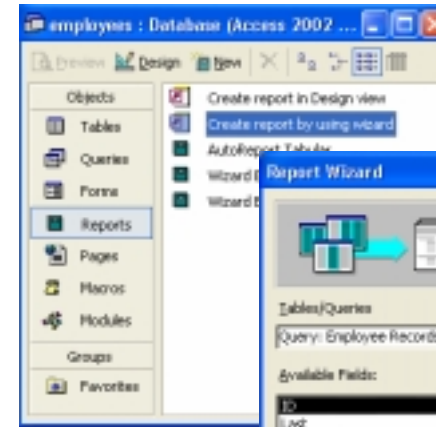
But this wizard is kind of naïve ...

ID	Last	First	JobID	Hire	Street	City	State	Country	JobID	Title	ImagePath
1	Davolio	Nancy	8	Jan-02	907 20th Ave	Seattle	WA	USA	1	CEO	8 images\image1.gif
2	Fuller	Andrew	3	Aug-02	908 1st Capitol	Seattle	WA	USA	2	Administrative	8 images\image2.gif
3	Hewlett	Bertoni	1	Jan-03	7201 Westside	Seattle	WA	USA	3	HR	7 images\image3.gif
4	Peacock	Margaret	2	Jan-02	4110 Old Re	Kirkland	WA	USA	4	Engineer	4 images\image4.gif
5	Buchanan	Steven	3	Oct-94	13 Garrett Hill	Seattle	WA	USA	5	Administrative	8 images\image5.gif
6	Sutton	Oliver	2	Jan-04	4034 North 50th	Seattle	WA	USA	6	Engineer	4 images\image6.gif
101	Trigg	Patricia	2	Jan-04	100 25th Ave	Seattle	WA	USA	7	Engineer	4 images\image7.gif
102	Morgen	Bruce	3	Jan-02	100 Eastlake	Seattle	WA	USA	8	Administrative	8 images\image8.gif
103	Wishire	Bruce	3	Mar-98	34 18th Ave	Seattle	WA	USA	9	Administrative	8 images\image9.gif
104	Brazley	Tanya	2	Mar-02	103 25th Ave	Seattle	WA	USA	10	Engineer	4 images\image10.gif
105	Compton	Sarah	3	Nov-99	4034 North 50th	Seattle	WA	USA	11	Administrative	8 images\image11.gif
106	Zaretsky	Cheryl	2	Jan-04	4034 North 50th	Seattle	WA	USA	12	Engineer	4 images\image12.gif

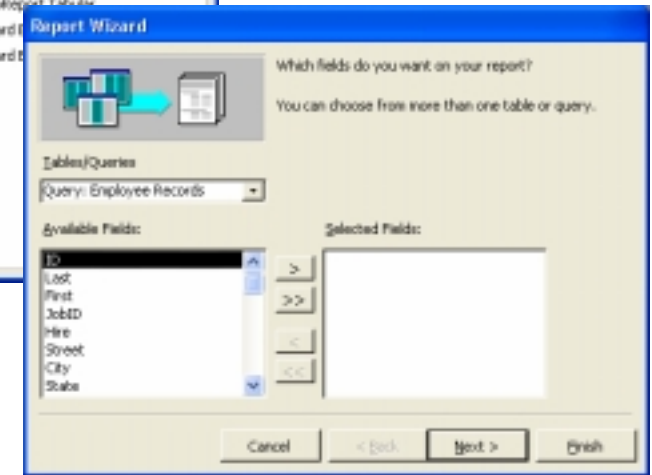
3-Dec-2004

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You might want to use the Report Wizard instead since it gives you more control.

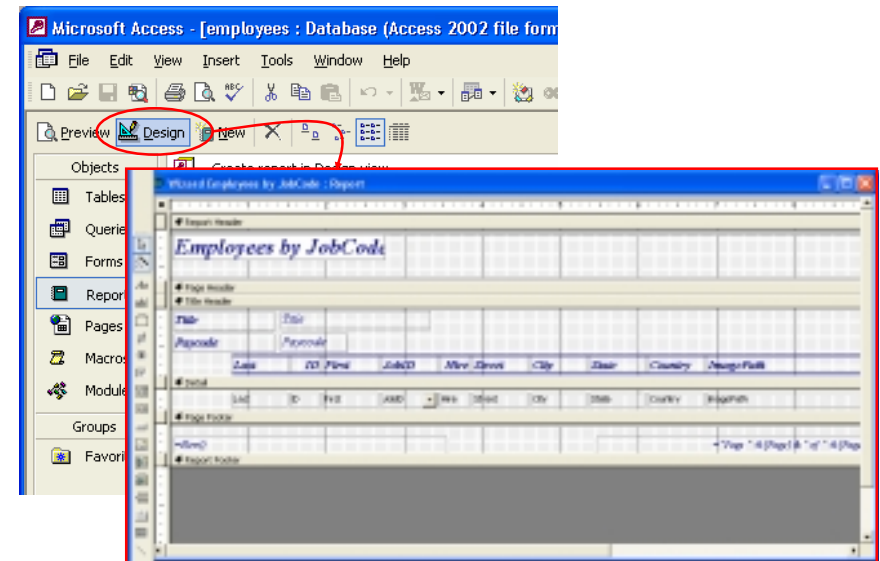


Employees by JobCode

Title		Administrative									
Paycode		6									
Last	ID	First	JobID	Hire	Street	City	State	Country	ImagePath		
Buchanan	5	Steven	3	Oct-94	13 Garrett Hill	Seattle	WA	USA	images\image5.gif		
Compton	105	Sarah	3	Nov-99	4034 North 50th	Seattle	WA	USA	images\image11.gif		
Fuller	2	Andrew	3	Aug-92	908 1st Capitol	Seattle	WA	USA	images\image2.gif		
Morgen	102	Xavier	3	Sep-03	100 Eastlake	Seattle	WA	USA	images\image8.gif		
Wishire	103	Bruce	3	Mar-98	34 18th Ave	Seattle	WA	USA	images\image9.gif		
Title		CEO									
Paycode		8									
Last	ID	First	JobID	Hire	Street	City	State	Country	ImagePath		
Davolio	1	Nancy	8	May-92	907 20th Ave	Seattle	WA	USA	images\image1.gif		
Title		Engineer									
Paycode		4									
Last	ID	First	JobID	Hire	Street	City	State	Country	ImagePath		
Brazley	104	Tanya	2	Mar-02	103 25th Ave	Seattle	WA	USA	images\image10.gif		
Peacock	4	Margaret	2	May-93	4110 Old Re	Kirkland	WA	USA	images\image4.gif		

Better looking report, but you still probably want to tweak it ...

But you probably want to tweak it ...



Employees by JobCode

<i>Title</i>		<i>Administrative</i>						
<i>Paycode</i>		6						
<i>ID</i>	<i>Last</i>	<i>First</i>	<i>JobID</i>	<i>Hire Street</i>	<i>City</i>	<i>State</i>	<i>Country</i>	<i>ImagePath</i>
5	Buchanan	Steven	3	17-Oct-94 13 Garrett Hill	Seattle	WA	USA	images/image5.gif
105	Compton	Sarah	3	17-Nov-99 4034 NW 50th St	Seattle	WA	USA	images/image11.gif
2	Fuller	Andrew	3	14-Aug-92 908W, Capital Way	Seattle	WA	USA	images/image2.gif
102	Morken	Xavier	3	14-Sep-03 100 Eastlake Drive	Seattle	WA	USA	images/image8.gif
103	Wilshire	Bruce	3	01-Mar-98 34 15th Ave NE	Seattle	WA	USA	images/image9.gif

<i>Title</i>		<i>CEO</i>						
<i>Paycode</i>		8						
<i>ID</i>	<i>Last</i>	<i>First</i>	<i>JobID</i>	<i>Hire Street</i>	<i>City</i>	<i>State</i>	<i>Country</i>	<i>ImagePath</i>
1	Davalino	Nand	0	01-May-92 507 20th Ave E	Seattle	WA	USA	images/image1.gif

<i>Title</i>		<i>Engineer</i>						
<i>Paycode</i>		4						
<i>ID</i>	<i>Last</i>	<i>First</i>	<i>JobID</i>	<i>Hire Street</i>	<i>City</i>	<i>State</i>	<i>Country</i>	<i>ImagePath</i>
104	Brazely	Tanya	2	03-Mar-02 103 25th Ave NW	Seattle	WA	USA	images/image10.gif
4	Peacock	Margaret	2	03-May-93 4110 Old Redmond R	Kirkland	WA	USA	images/image4.gif
101	Soggy	Peter	2	01-Jun-04 1300 20th Ave W	Seattle	WA	USA	images/image7.gif

Explore the Design capabilities

- Properties of the various controls can be set
- Controls and labels can be moved around
- Images and patterns can be applied
- Totals, averages, subtotals etc can be calculated
- Information can be grouped by selected fields
- Etc, etc – there is a lot of flexibility in how these reports get generated