

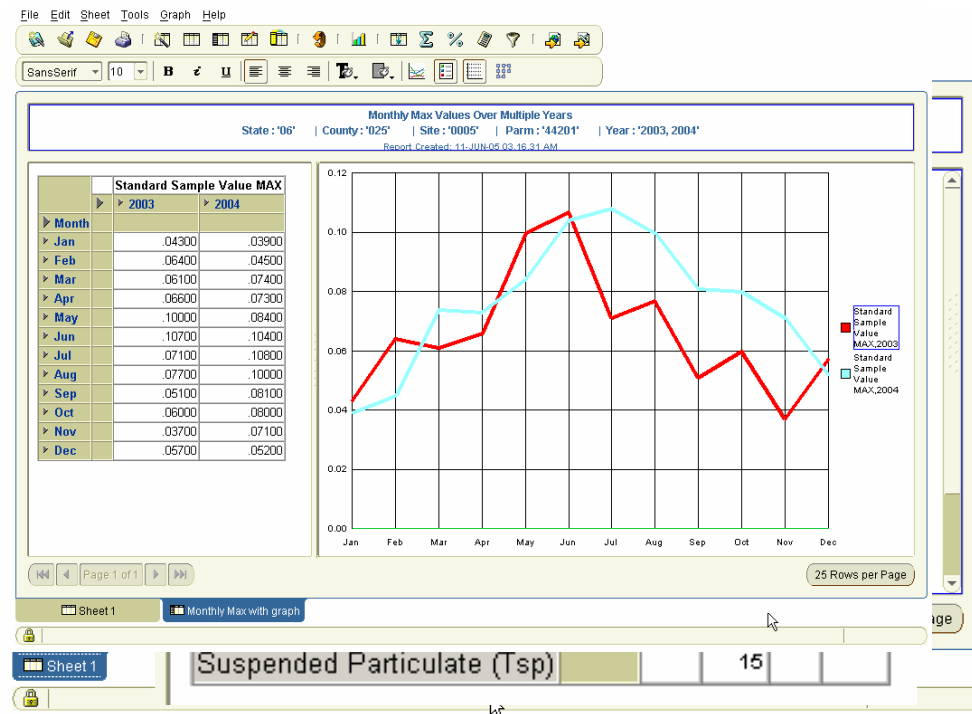
Using Discoverer as the AQS ad hoc Query Tool

Goals for this class

- Overview of building a query
- Editing an existing query
- Build a query to answer a typical question
- Questions





What Can Discoverer Produce?

- Data Listing Reports
- Cross-Tabulation Reports (Pivot Tables)
- Graphs & Charts



Key Terminology

Interface to database	= End User Layer
Grouping of Tables	= Business Area
Group of worksheets	= Workbook

Tables		Folders
Columns		Items
Rows		Records
Queries		Worksheets

What you need

- **AQS userid and password**
- **Java-enabled Web browser (Sun Java 1.5 update 11 recommended)**
- **url:**
<https://iasint.rtpnc.epa.gov/discoverer/plus>

Starting Discoverer Plus

<https://iasint.rtpnc.epa.gov/discoverer/plus>

Connect to Discoverer - Microsoft Internet Explorer provided by EPA - version 6

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Address Book Recent Connections

Address <https://iasint.rtpnc.epa.gov/discoverer/plus> Go Links

ORACLE Discoverer Plus
Business Intelligence [Help](#)

[Connect Directly](#)

Connect to OracleBI Discoverer

To connect to OracleBI Discoverer, click on a connection name or enter your connection details directly.

Choose Connection

[Create Connection](#)

Details	Connection	Description	Update	Delete
Show	EIMS_PUBLIC	EIMS Public Connection		

Connect Directly [Return to Top](#)

Enter your connection details below to connect directly to OracleBI Discoverer.

* Indicates required field.

Connect To: OracleBI Discoverer

* User Name:

* Password:

* Database:

End User Layer:

Locale: Locale retrieved from browser

[Go](#)

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Create a Connection

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Address <https://iasint.rtpnc.epa.gov/discoverer/app/cec?event=createConnection&clientType=plus> Go Links

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Business Intelligence [Help](#)

Create Connection

Use this page to enter the details of the connection that you wish to create. Choose a name that is easy to remember, followed by an optional description and locale. Enter the account details for this connection before proceeding. [Cancel](#) [Apply](#) [Apply and Connect](#)

Connection Details

* Indicates required field.

Connect To: OracleBI Discoverer

* Name: My connection

Description: Sample connection for Discoverer to aqspod

Locale: Locale retrieved from browser

Account Details

* User Name: thl

* Password:

* Database: aqspod

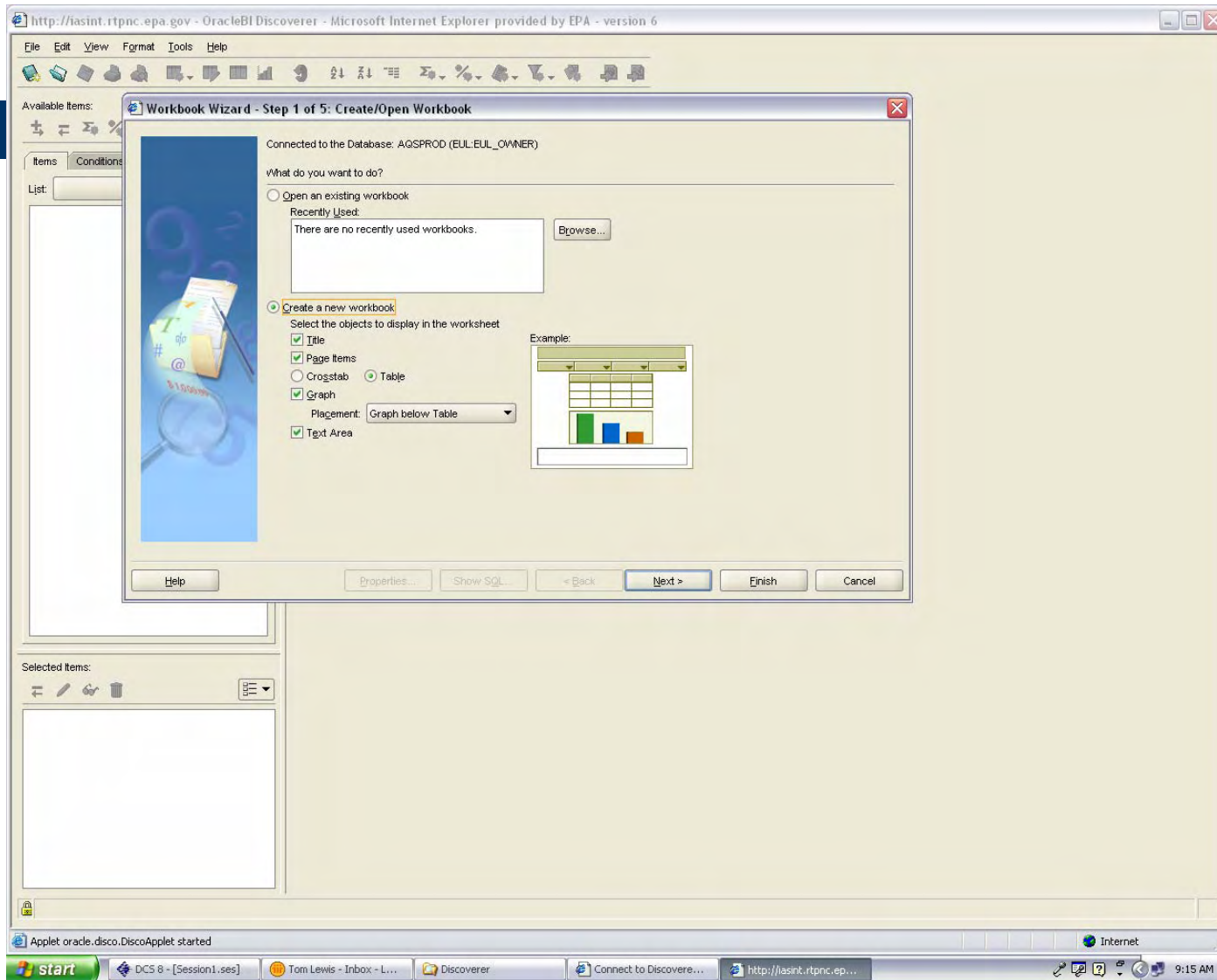
☒ **TIP** You will be prompted to select an End User Layer and/or an Applications Responsibility if more than one exists.

[Cancel](#) [Apply](#) [Apply and Connect](#)

[Help](#)

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Successful connection



Create/Open a Workbook

Workbook Wizard - Step 1 of 5: Create/Open Workbook

Connected to the Database: AQSPROD (EUL:EUL_OWNER)

What do you want to do?

☐ Open an existing workbook

Recently Used:

There are no recently used workbooks.

Browse...

☒ Create a new workbook

Select the objects to display in the worksheet

☒ Title

☒ Page Items


☐ Crosstab ☒ Table

☒ Graph

Placement: Graph below Table

☒ Text Area

Example:



The example shows a worksheet with a table at the top and a bar chart below it. The table has 4 columns and 5 rows. The bar chart has 3 bars of different heights and colors (green, blue, orange).

Help

Previous < > Next

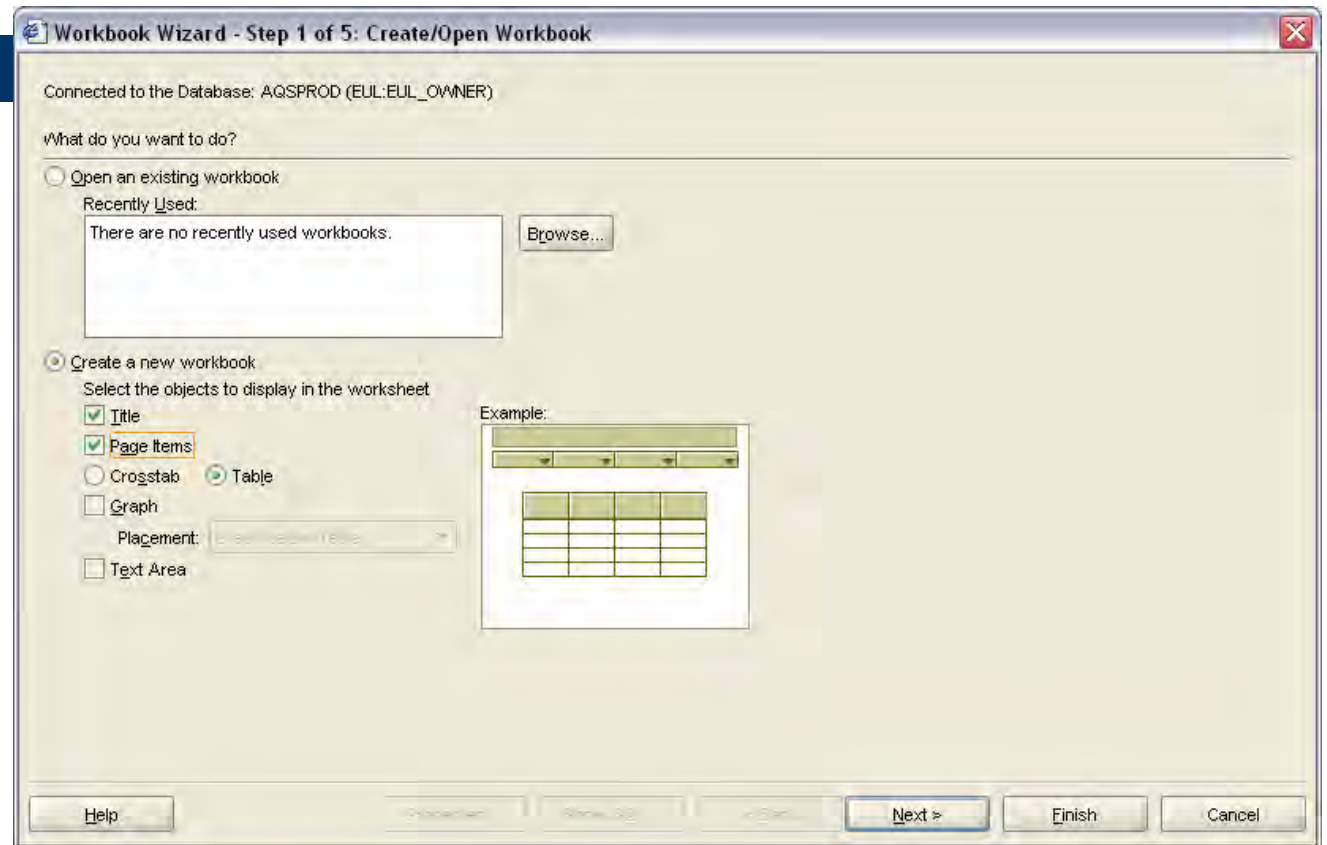
Next >

Finish

Cancel

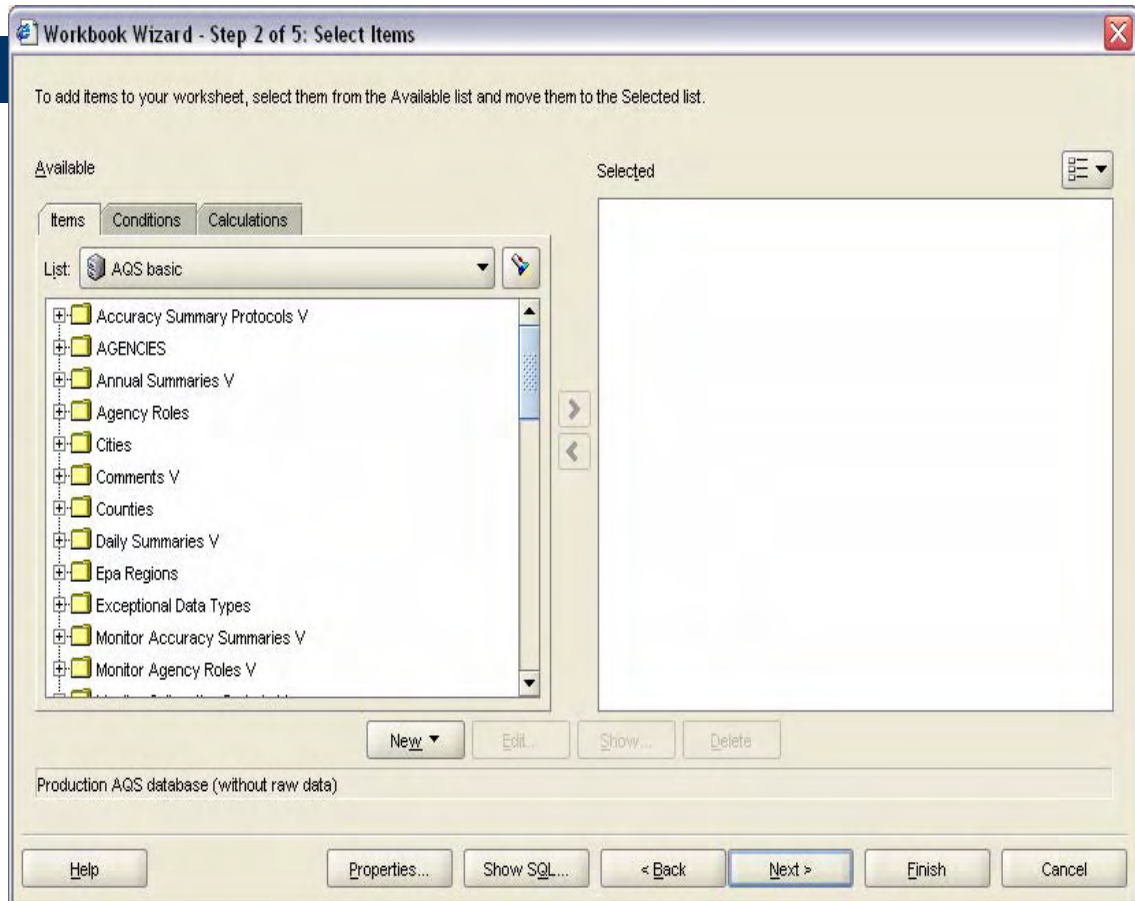
Creating a New Workbook

- Use the Workbook Wizard
- Start with a simple goal in mind – e.g., **Find the states in your region**



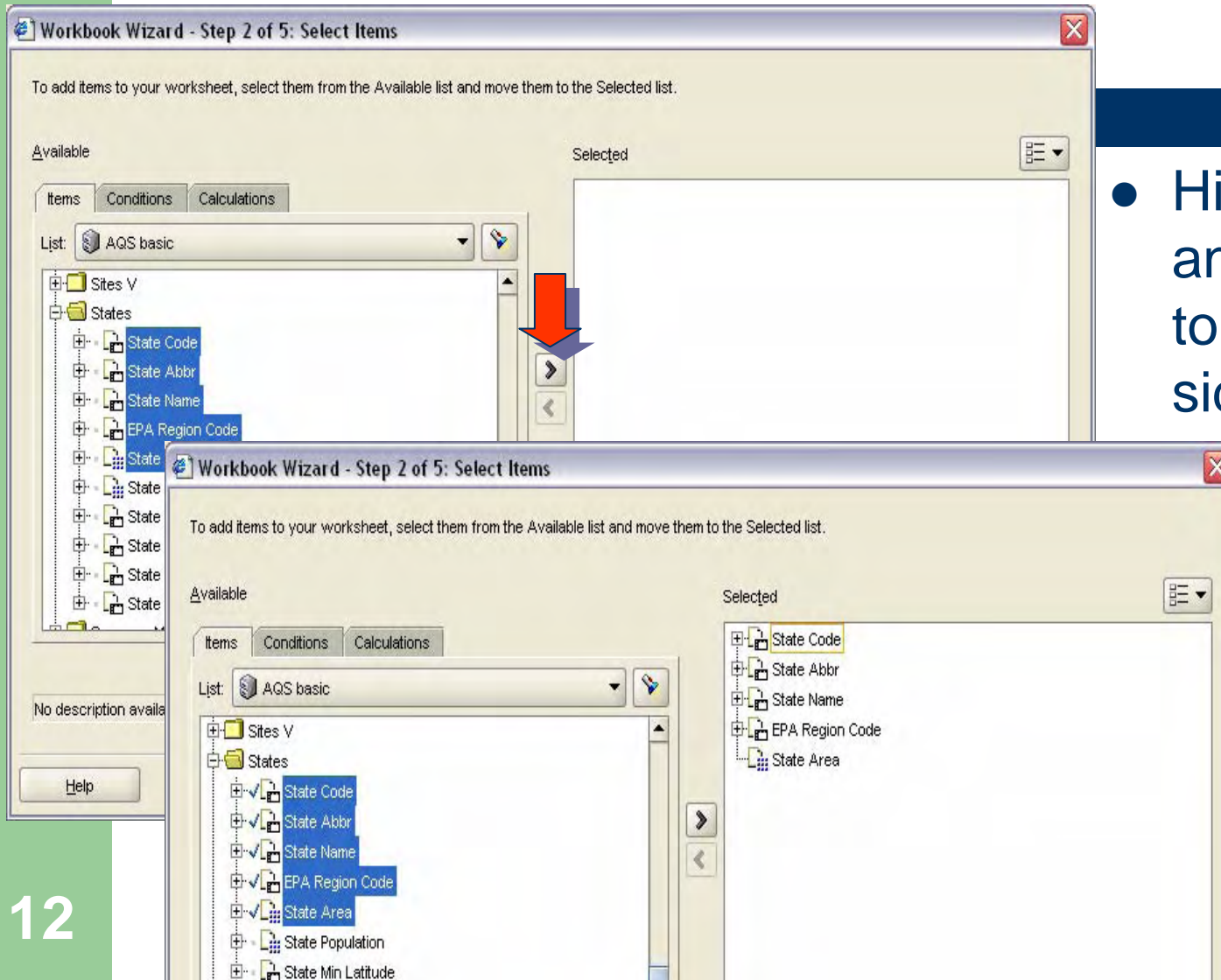
Selecting Items

- AQS basic is the simplest Business Area
- Scroll through list of folders
- Expand a folder to see its items

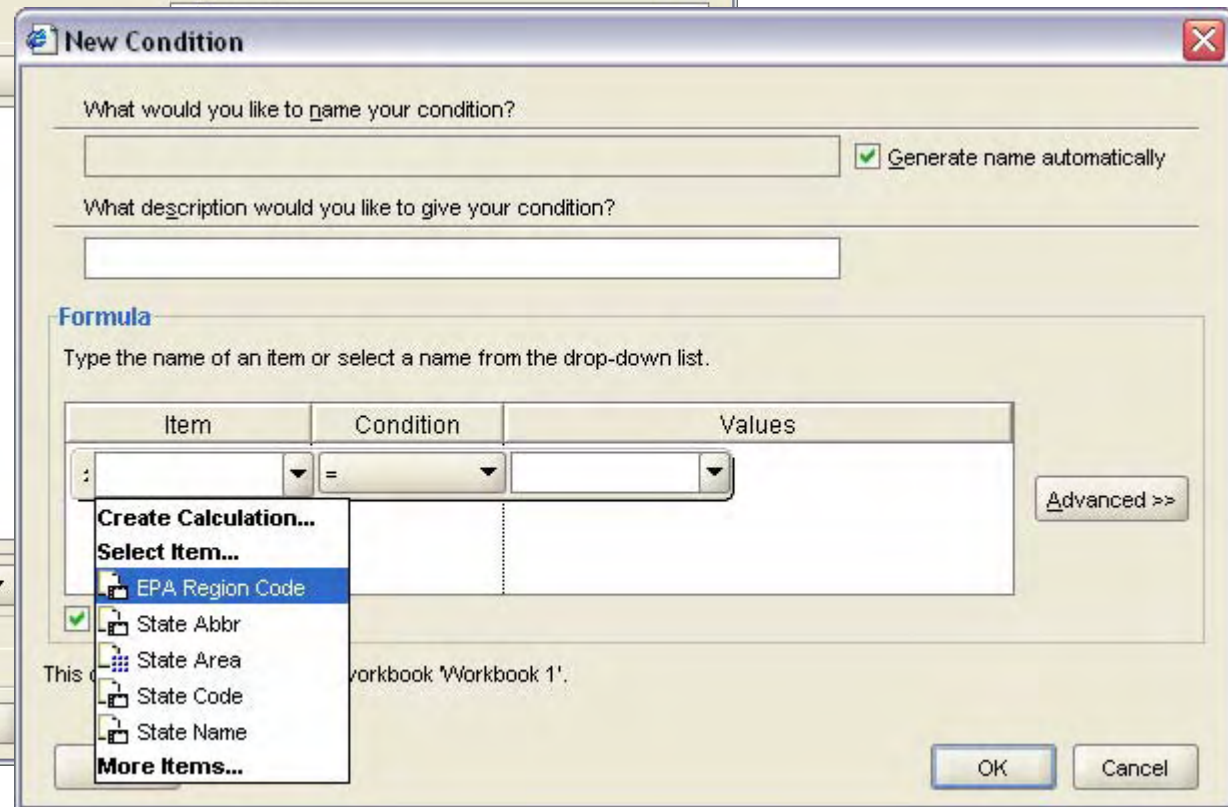
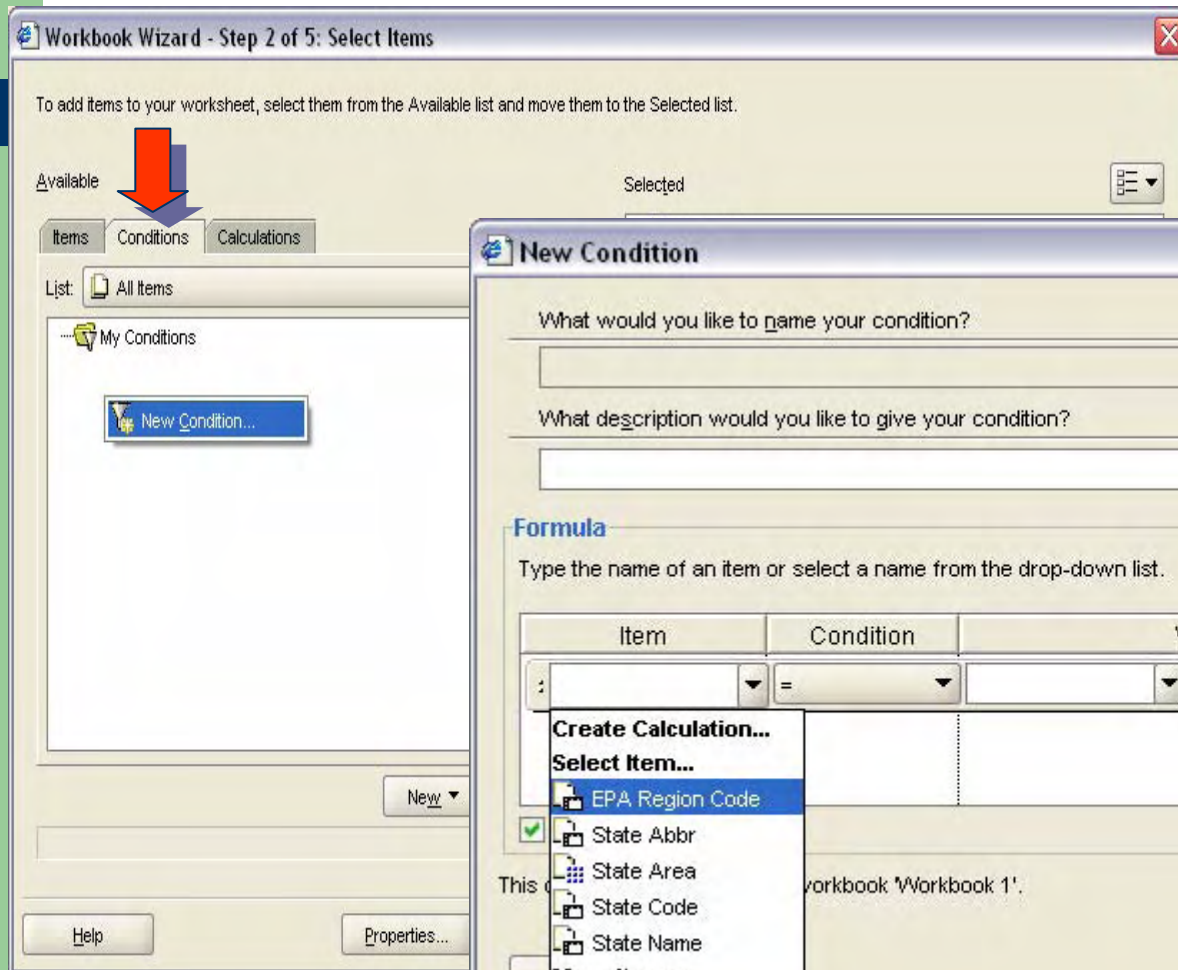


Selecting Items, cont'd

- Highlight items and **move** them to the **Selected** side by clicking on the right arrow



Conditions



Conditions, cont'd

New Condition

What would you like to name your condition?

(EPA Region Code = '04')

☒ Generate name automatically

What description would you like to give your condition?

Formula

Type text in single quotes or select a value from the drop-down list. Multiple values must be separated by commas.

Item	Condition	Values
States.EPA Region Code	=	'04'

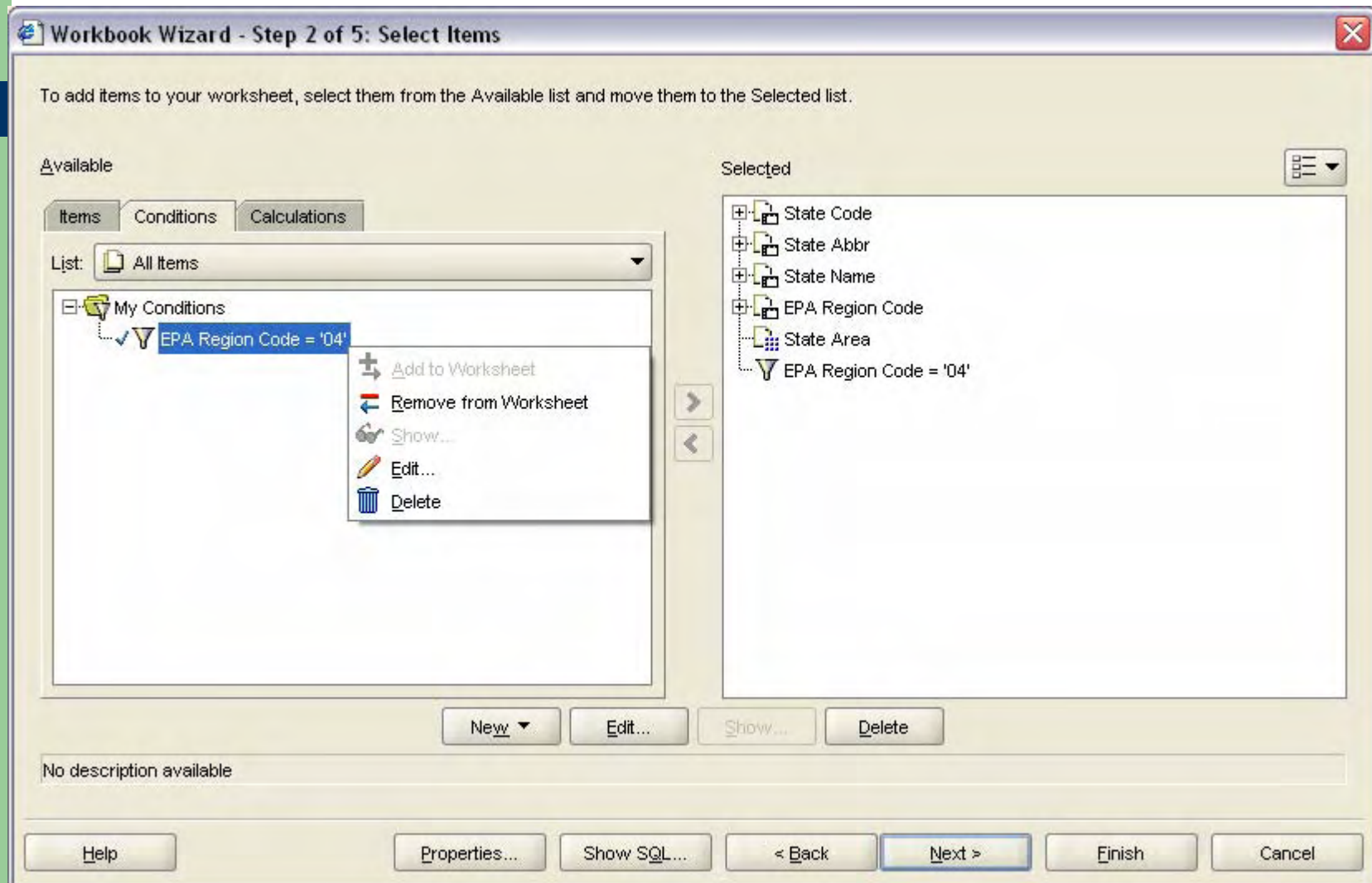
[Advanced >>](#)

☒ Case-sensitive

This condition is located in the workbook 'Workbook 2'.

[Help](#) [OK](#) [Cancel](#)

Conditions, cont'd



Calculations

Workbook Wizard - Step 2 of 5: Select Items

To add items to your worksheet, select them from the Available list and move them to the Selected list.

Available

Items Conditions Calculations

List: All Items

- My Calculations
- My Percentages
- My Totals
- New Total...

No description available

New Total

Which item would you like to create a total on?

State Area

What kind of total do you want?

f(x) Sum

Adds all the values.

Where would you like your total to be shown?

☒ Grand total at bottom

☐ Subtotal at each change in:

State Code

☐ Don't display total for a single row

Do you want to calculate totals within each page?

☒ Calculate totals within each page.

☐ Calculate totals across all pages.

Help

Example

	M1	M2	n1	n2
1	AA	aa1	10	10
2		aa2	10	10
3	BB	bb1	10	10
4		bb2	10	10
5				40

The example above shows a Sum total calculated from sample data.

What label do you want to be shown?

Sum

☒ Generate label automatically

Format Heading...

Format Data...

OK Cancel

Help Properties... Show SQL... < Back Next > Finish Cancel

Calculations, cont'd

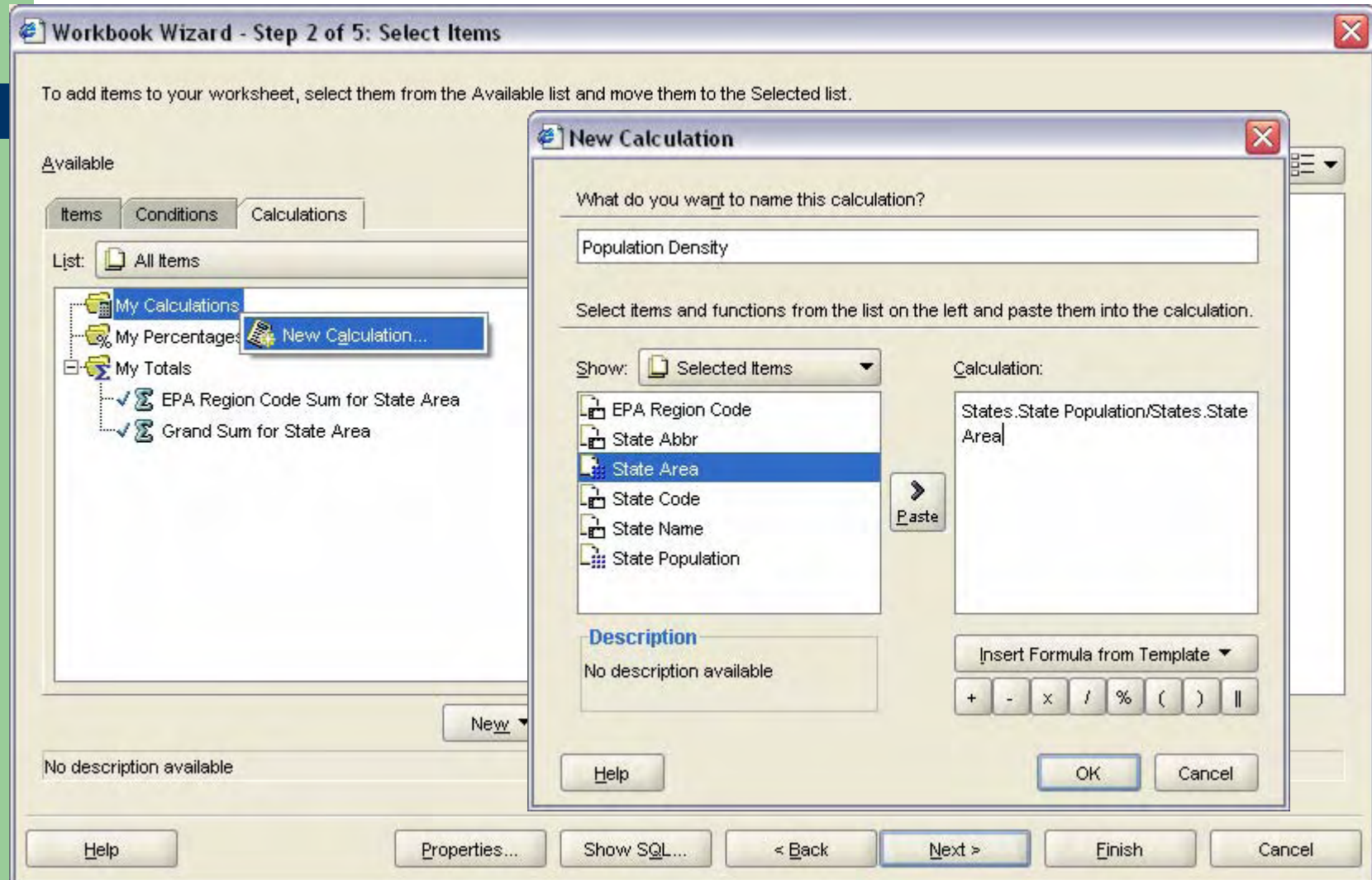
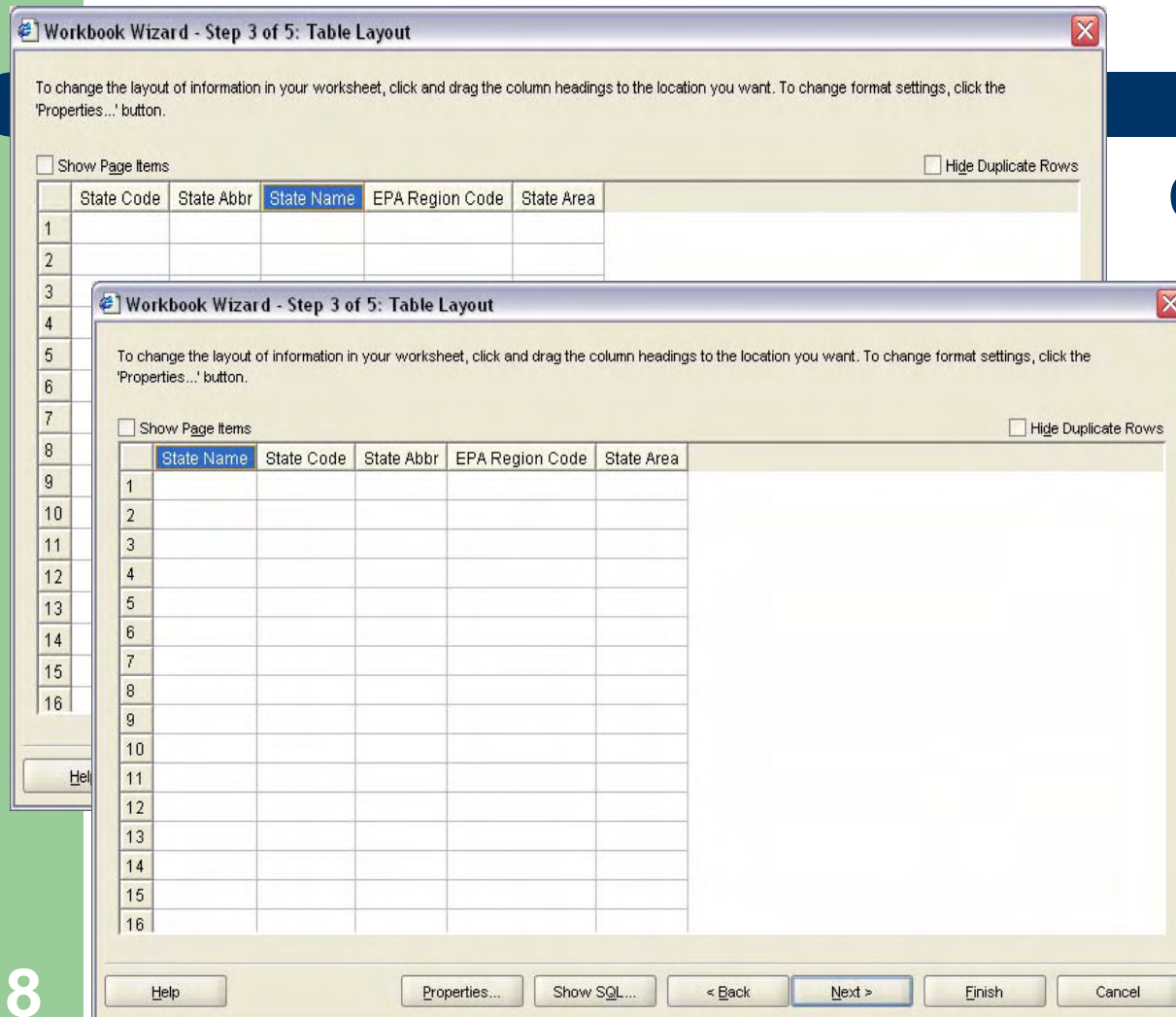
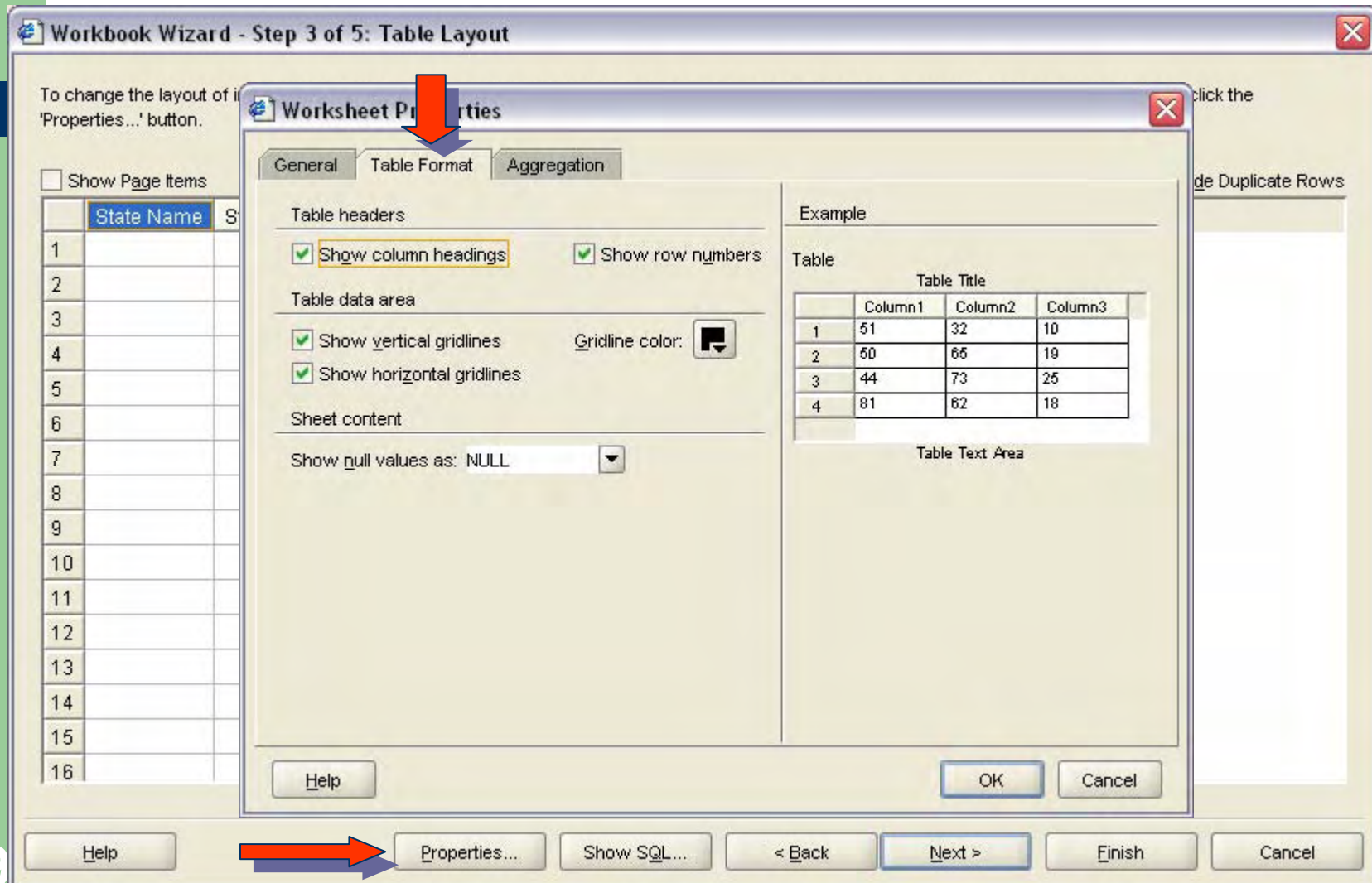


Table Layout



Click and drag
headings to
desired order

Table Layout, cont'd



Sorts

Workbook Wizard - Step 4 of 5: Sort

Click Add and then select a column to sort. Select the Group sort type to hide repeated cell values in a column. Check Hidden to hide a sorted column in the worksheet.

	Column	Direction	Sort Type	Hidden
Sort by	EPA Region Code	Low to High	Group Sort	<input type="checkbox"/>
then by	Population Density	Low to High	Normal	<input type="checkbox"/>

Population Density
 State Abbr
 State Area
 State Code
 State Name
 State Population

Add

Delete

Move Up

Move Down

Format...

Help

Properties...

Show SQL...

< Back

Next >

Finish

Cancel

Results

Workbook 1 - OracleBI Discoverer - Microsoft Internet Explorer provided by EPA - version 6

File Edit View Format Tools Help

Agency.FB 8 B U

Available Items:

Items Conditions Calculations

List: AQSprod

AGENCIES

AQS User Info

Accuracy Data V

Accuracy Summary Protocols V

Agency Roles

Annual Summaries V

Aqcrs

Audit Levels

Blanks Data V

Blanks Qualifier Details V

CBSA Counties

CMSAs

CSA CBSAs

Cities

Collection Frequencies

Combined Statistical Areas

Comments V

Composite Data V

Composite Qualifier Details V

Composite Types

Core Based Statistical Areas

Counties

County Cities

Daily Summaries V

Selected Items:

State Code

State Abbr

State Name

EPA Region Code

State Area

State Population

Population Density

Grand Sum for State Area

Double-click here to edit the title

	EPA Region Code	State Name	State Abbr	State Code	State Area	State Population	Population Density
1	01	Connecticut	CT	09	4872.00	3405565	699.01
2		Maine	ME	23	30995.00	1274923	41.13
3		Massachusetts	MA	25	7824.00	6349097	811.49
4		New Hampshire	NH	33	8993.00	1235786	137.42
5		Rhode Island	RI	44	1055.00	1048319	993.67
6		Vermont	VT	50	9273.00	608827	65.66
7					Sum: 63012.00	Sum: 13922517	Sum: 2748.37
8	02	New Jersey	NJ	34	7468.00	8414350	1126.72
9		New York	NY	36	47377.00	18976457	400.54
10		Puerto Rico	PR	72	3459.00	3808610	1101.07
11		Virgin Islands	VI	78	132.00	108612	822.82
12					Sum: 58436.00	Sum: 31308029	Sum: 3451.15
13	03	Delaware	DE	10	1932.00	783600	405.59
14		District Of Colum	DC	11	63.00	572059	9080.30
15		Maryland	MD	24	9837.00	5296486	538.42
16		Pennsylvania	PA	42	44888.00	12281054	273.59
17		Virginia	VA	51	39703.00	7078515	178.29
18		West Virginia	WV	54	24119.00	1808344	74.98
19					Sum: 120542.00	Sum: 27820058	Sum: 10551.17
20	04	Alabama	AL	01	50767.00	4447100	87.60
21		Florida	FL	12	54153.00	15982378	295.13
22		Georgia	GA	13	58056.00	8186453	141.01
23		Kentucky	KY	21	39669.00	4041769	101.89
24		Mississippi	MS	28	47233.00	2844658	60.23
25		North Carolina	NC	37	48843.00	8049313	164.80
26		South Carolina	SC	45	30203.00	4012012	132.83
27		Tennessee	TN	47	41155.00	5689283	138.24
28					Sum: 370079.00	Sum: 53252966	Sum: 1121.73
29	05	Illinois	IL	17	55645.00	12419293	223.19
30		Indiana	IN	18	35932.00	6080485	169.22
31		Michigan	MI	26	56954.00	9938444	174.50
32		Minnesota	MN	27	79548.00	4919479	61.84
33		Ohio	OH	39	41004.00	11353140	276.88
34		Wisconsin	WI	55	54426.00	5363675	98.55
35					Sum: 54426.00	Sum: 50074516	Sum: 1004.18

Demonstration

- Editing an existing query
- Developing new queries