Discoverer for AQS

From Version 9.0.4 to 10g R2

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Objectives for this session

- **Introduce version 10g R2 of Discoverer to current users**
  - ◆ **Differences in setting up your Connection**
  - ◆ **Improved Ease of Use**
  - ◆ **Reporting enhancements**
- **Demonstrate new features**
- **Describe the transition**

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"Business Intelligence" instead of just Discoverer

What you need

- **AQS userid and password**
- **Java-enabled Web browser**
  - **MS IE 5.5, 6.0 and higher**
  - **Netscape 7.1, 7.2**
  - **Mozilla 1.5 and higher**
- **JRE (or JInitiator)**
- **Admin privileges to install a Java Virtual Machine on your client PC (100-150 MB)**
- **About 50 MB available disk space for Oracle Jar Cache**
- **url: http://www.epa.gov/ttn/airs/airsaqs**
  or go directly to
  https://iasint.rtpnc.epa.gov/discoverer/plus

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Note: As of this date (11/15/06), MS IE 7 is not recommended.

Starting Discoverer Plus

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

You can always just type in the URL or use links from the aqs ttn page – Web Applications on the sidebar.

If you're behind the EPA firewall, you can use http instead of https.

Create a Connection, Apply & Connect

Private Connection Details are stored in cookies, so if someone else uses your PC and the same browser, they will see your connection (but they'd still have to know your password to login.)

Enter Password

First time set up

Depending on the software already installed on the client machine, you might have to download and install a Java Virtual Machine (JVM) (e.g. Java Plug-in).

If you have to download and install a JVM, the Security Warning dialog is displayed.

Security Warning

Do you want to install and run "Java Plug-in 1.4.2.6 signed on 24/02/2004 00:24 and distributed by:

Sun Microsystems, Inc.

Publisher authenticity verified by VeriSign Class 3 Code Signing 2001 CA

Caution: Sun Microsystems, Inc. asserts that this content is safe. You should only install/view this content if you trust Sun Microsystems, Inc. to make that assertion.

☐ Always trust content from Sun Microsystems, Inc.

Yes   No   More Info

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Hint: If the JVM installation process fails, close down extraneous processes on the client machine, then re-try.

If you can get connection working using JRE then the relatively manual process of updating the certificate is eliminated.

You may need to adjust your Internet Options (under Tools) to allow Browsing to "Enable Install On Demand" and "Use JRE 1.5.0_09 for <applet>

First time, download applet
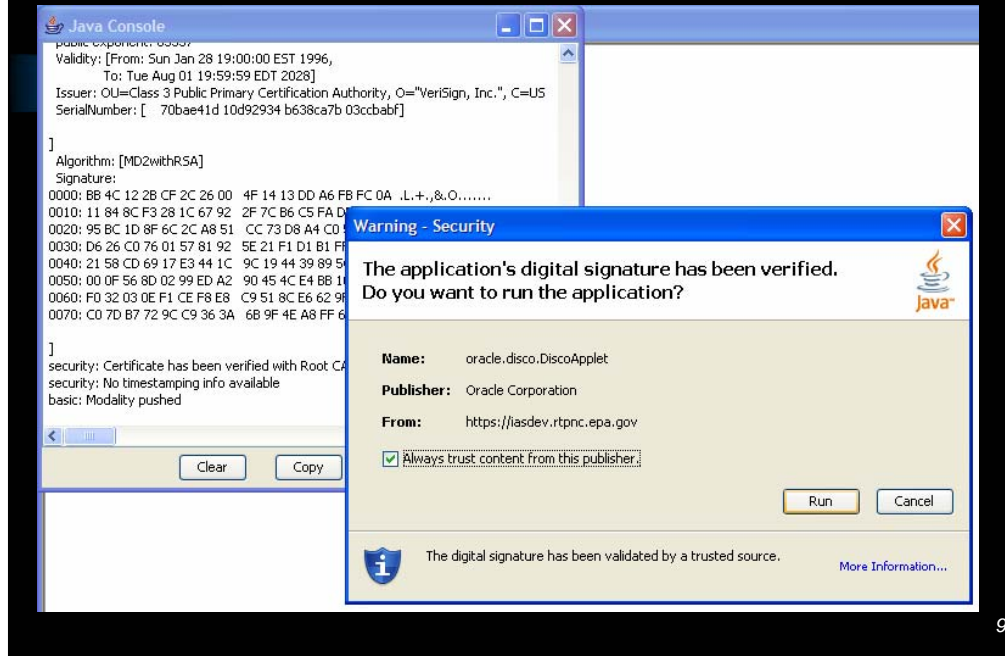
The Discoverer Plus applet provides the user interface and functionality for creating workbooks and analyzing data. The next time the user logs on, the applet runs from the local cache and does not need to be downloaded. (Of course, if you delete your cache, or move to another machine, you'll have to download it again.)

Workbook Wizard starts
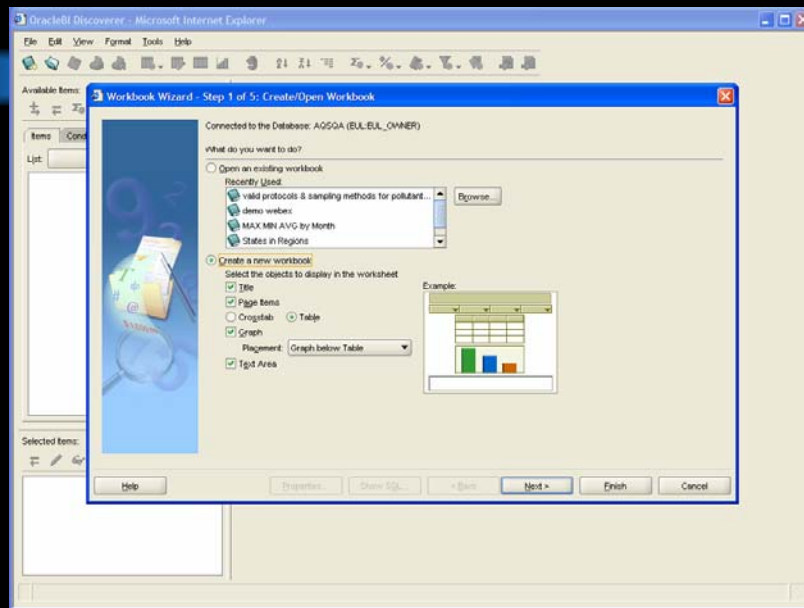
Once the Workbook Wizard starts, you know you have successfully connected.

Only 5 steps in the Workbook Wizard now (instead of 10).

The simplest workflow is to use the essential steps:

1- Choose a worksheet type

2- Choose the items

3- Arrange the layout of the data

4- Define conditions

5- Finish

Step 1: choose whether to open an existing workbook or create a new one.

If creating a new workbook, then use the check boxes and radio buttons for the options that can be displayed.

For the simplest workbook, uncheck Title, Page Items, Graph, and Text Area. (You can change the defaults for Title and Text Area but not for Page Items, Crosstab, Table, and Graph.)

"Page Detail" worksheets consume a lot of memory. A "Table" is the most efficient type of worksheet.
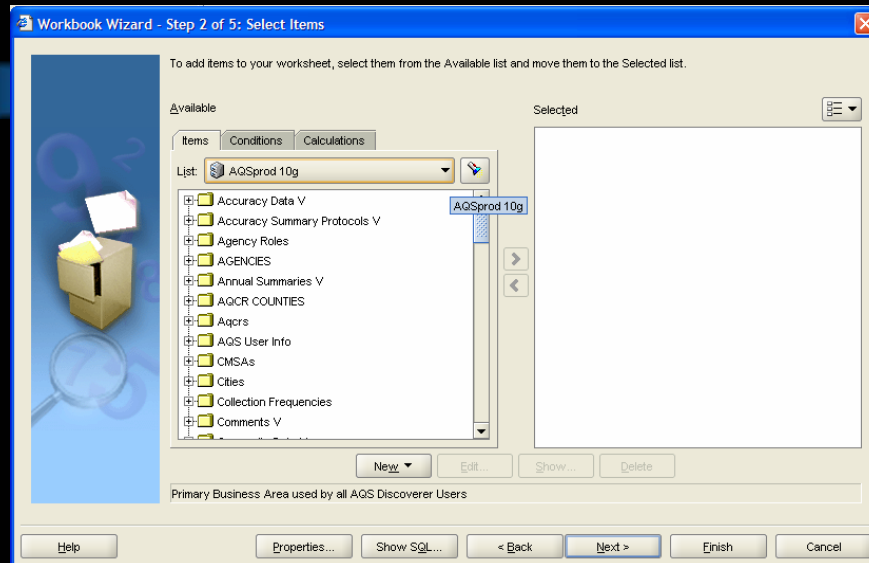
Step 2 window has 5 areas:

1) Selection box with heading "Available" that has 3 tabs (items, conditions, & calculations)

Under the Items tab, you choose from the list of available business areas. As with the previous version, you can click to highlight a folder or items and use the move button (>) to select. You can drag and drop folders/items in the Selected box. You can also right click on a folder or item and choose "add" from the pop-up menu.

2) Box with the heading "Selected" – where you put your choices. Here you can also highlight and move items back or right click and choose "remove" from the pop-up menu.

3) Views drop-down – right above the Selected box. You can choose to include the folder names with the items

4) 4 additional buttons: New, Edit, Show, Delete

New: to create new conditions, calculations, percentages, and totals

Edit: use to edit existing conditions, calculations, percentages, and totals

Show: to show details about predefined conditions

Delete: to delete a user-defined condition, calculation, percentage, or total

5) Find button – flashlight: Opens a Find dialog box

Step 2 – selected items
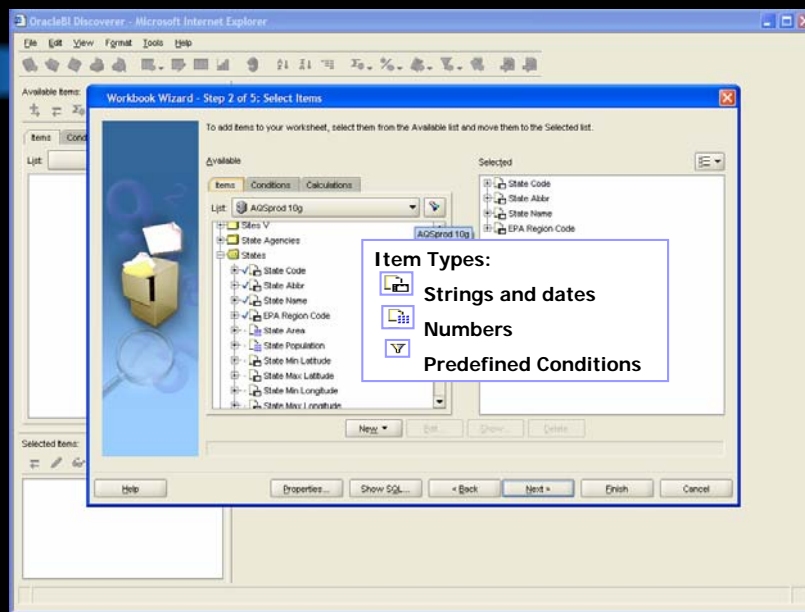
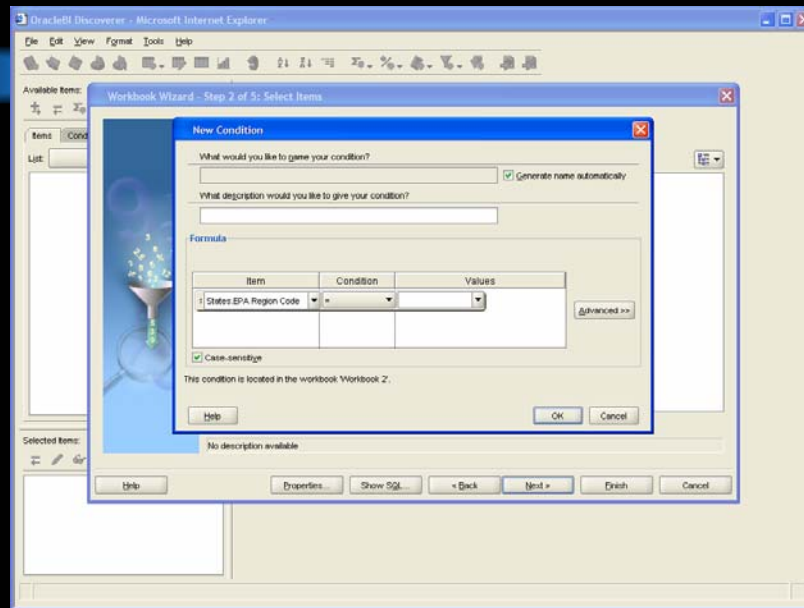Selected items will have the check mark beside them in the "available" box.

Item Types:

Strings and dates

Numbers

Predefined conditions

Conditions

New Condition

Conditions

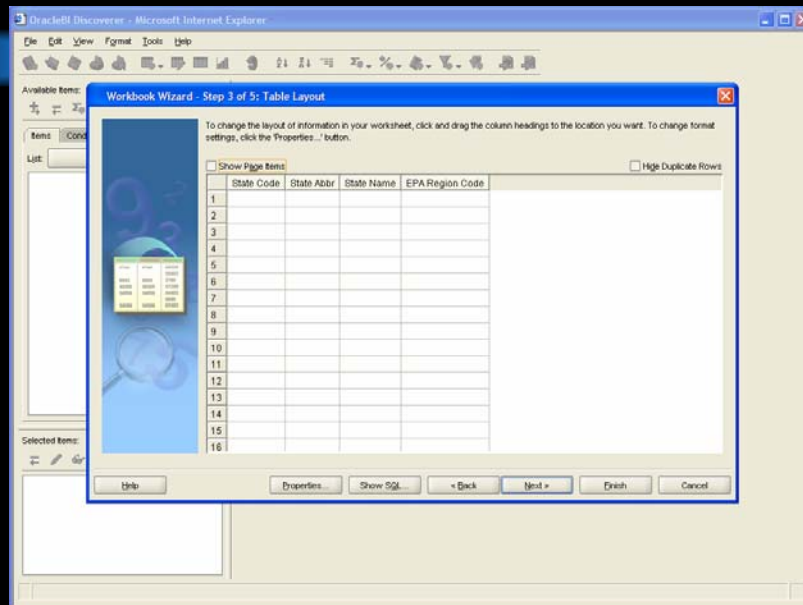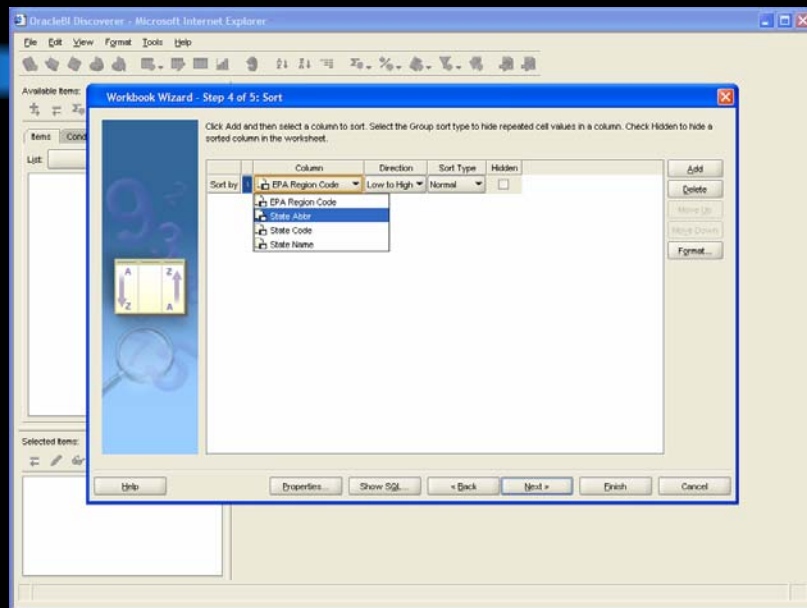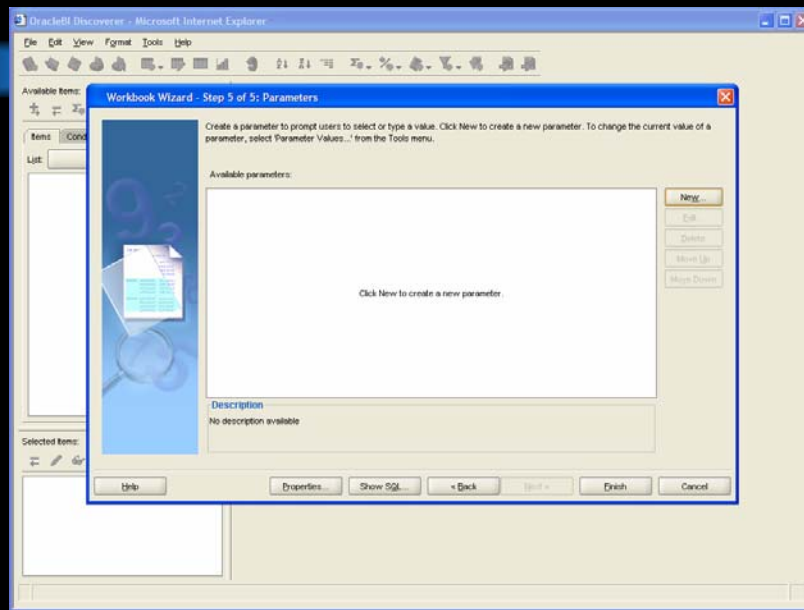# Conditions

By default, Discoverer will display items in the order you selected them. Here you can change that order and it's easier than before. If you have a large number of columns, you don't have to drag it over as far as you can, then scroll over and drag it again.

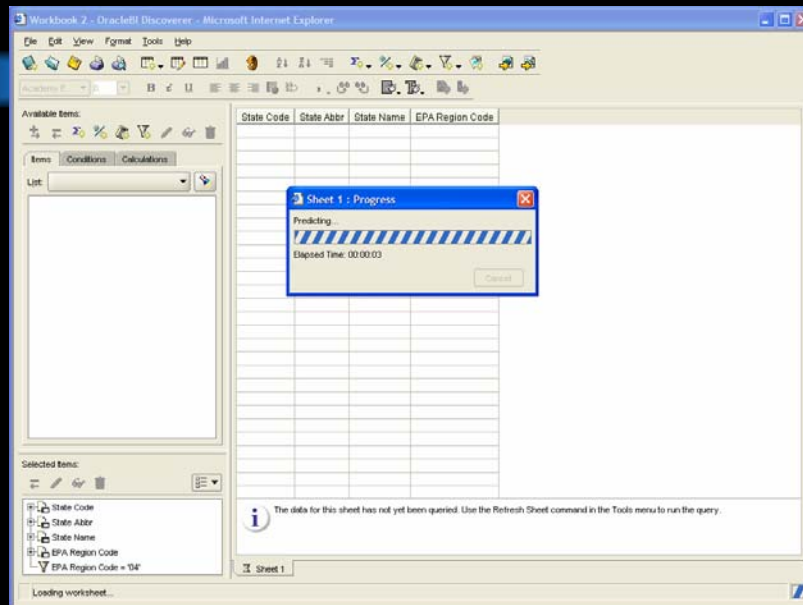You also get the chance to make 2 other choices: Page Items and Hide Duplicate Rows

Step 4 - Sort

Step 5 - Parameters

Finish and run

Results

Click on View and you can choose which panes show up on your screen. Here, adding the Page Items to the view…….

Clicked on EPA Region Code and drug it up to Page Items

More options available while results are showing
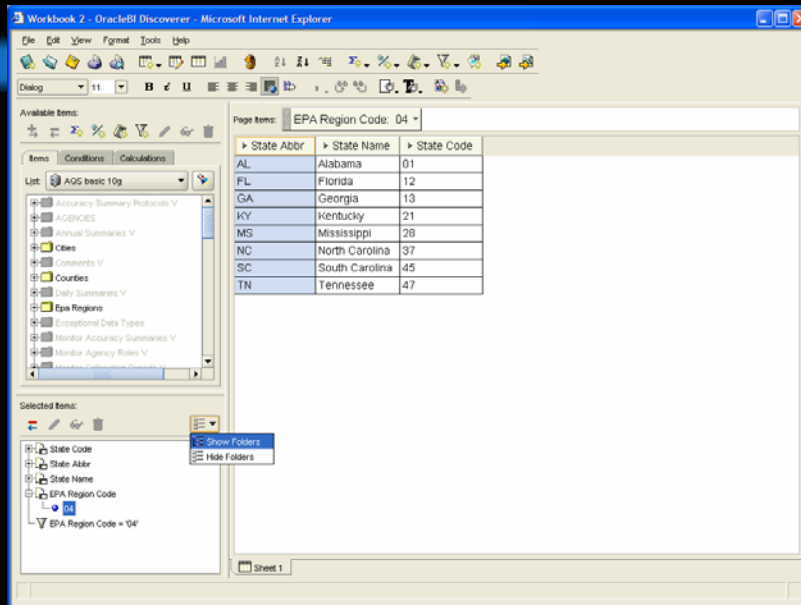
The best part of this version is being able to make changes while your results are still visible.

Choose conditions in "Items"
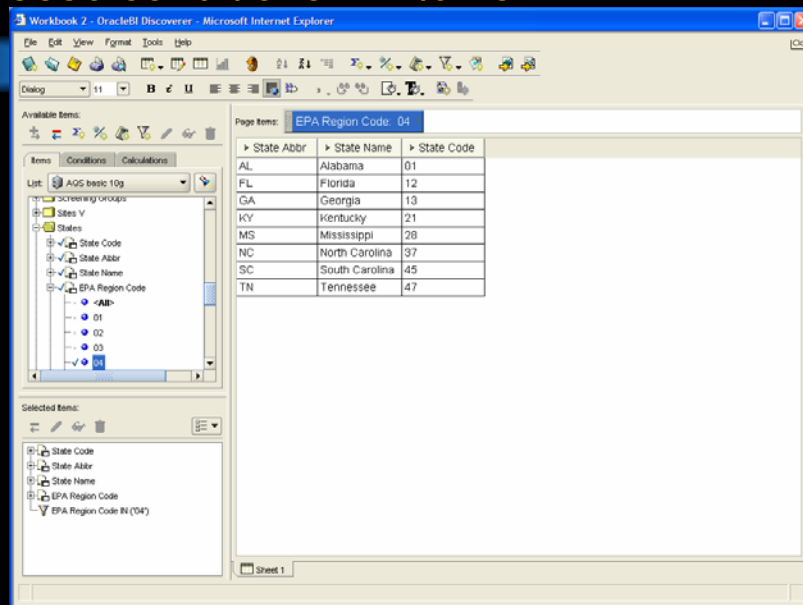
There are several ways to add conditions:

… in the available items (with an LOV)

… in the selected items (with an LOV)

… click on the Conditions tab and create or edit a condition as in previous version
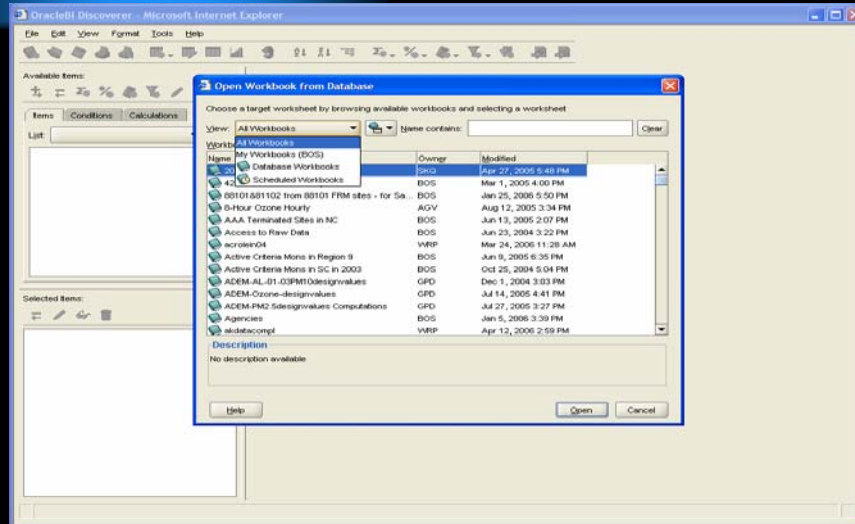
You can see a list of all workbooks available to your userid,   All Workbooks, My Workbooks

Nice feature that you can now see who created the workbook and when it was last modified.

Sample Report w/Graphs in "old" version
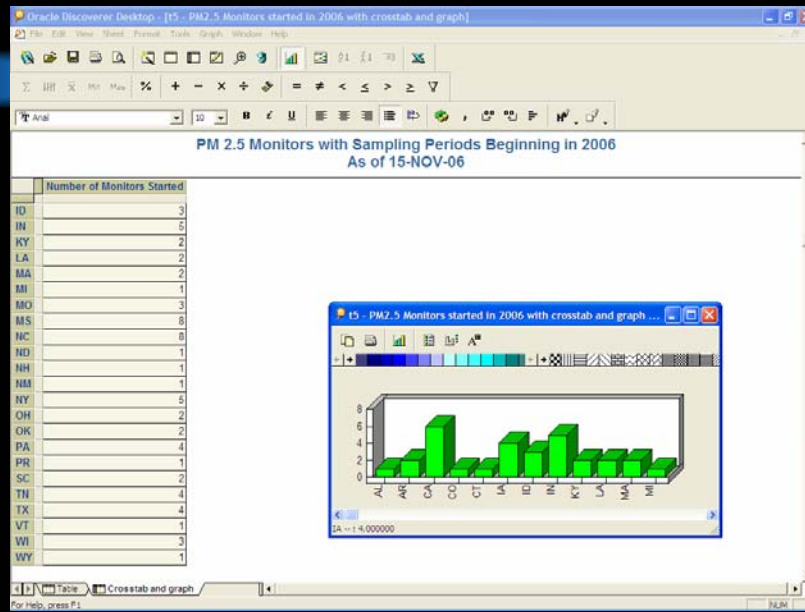
Sample Report w/Graphs in "new" version

Points Worth Remembering

- AQSprod is the database name (The name you need to set up your connection.)
- Your Discoverer userid/password are the same as your AQS application userid/password
- Only registered AQS users can access AQSprod via Discoverer
- Discoverer accesses the live production database (AQSprod – same as the AQS application)

- Your browser must allow downloads of signed Active X controls to install the JRE (Java Runtime Environment) from Sun. Hopefully, everyone will be able to use JRE and we won't have to bother with the certificate for the Jinitiator each year.
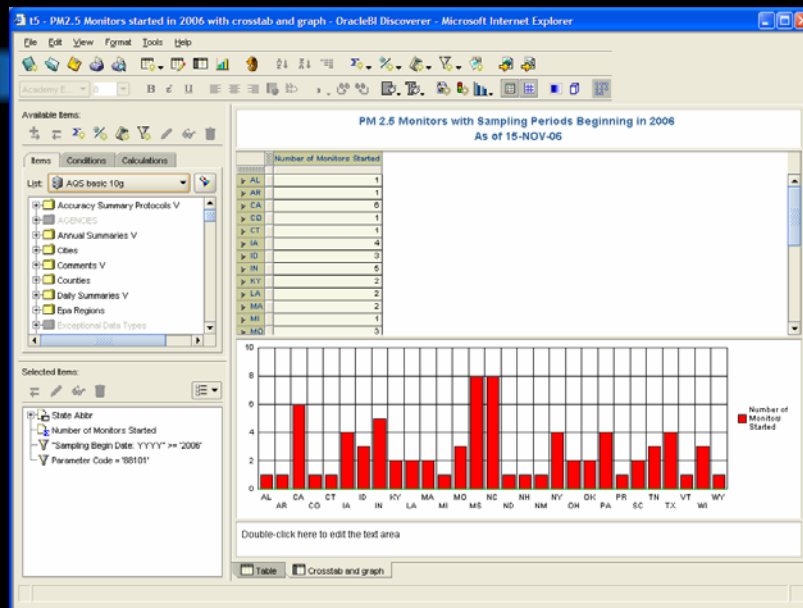- MS Internet Explorer v 7 is NOT recommended at this time
- If you delete your cookies, you'll have to recreate your Connection
- If you switch PC's, you'll have to recreate your Connection

- The AQS basic business area has the most commonly used tables
- AQSprod includes all the tables in AQS basic plus Raw Data – Current and a few other related tables

- Use the link on the sidebar of the EPA TTN AQS page http://www.epa.gov/ttn/airs/airsaqs/ to get to AQS Discoverer Web and then save the direct url to your "favorites"
- You can find answers to some of the Frequently Questions from a link on that same page
- Many of the reference tables are viewable from http://www.epa.gov/ttn/airs/airsaqs/manuals/codedescs.htm

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Thanks for participating!

For assistance using Discoverer,
- Try the Online Help (It's pretty good!)
- Check the Discoverer Plus User Guide
- Contact the EPA Helpline
- Email johnson.bonnie@epa.gov or call Bonnie Johnson at 919 541-2469
- Call or email other EPA NADG staff (Jake Summers, Jon Miller, Chuck Isbell)
- Oracle Technology Network is a good source for information – free registration – look for Discoverer with Data Warehousing and Business Intelligence (http://www.oracle.com/technology/products/discoverer/index.html)