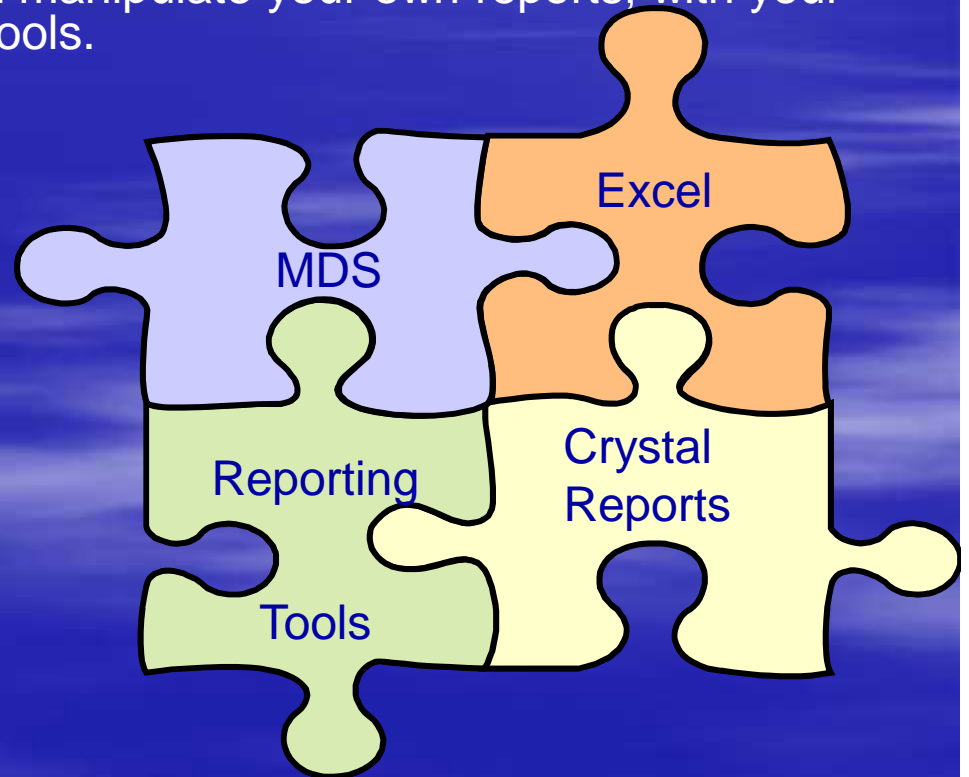


# ODBC

## ➤ Topics

- MDS ODBC Account
  - Now have ability to create and manipulate your own reports, with your data, using various reporting tools.
  - Access to files for:
    - Customer
    - Product
    - Inventory
    - Sales
    - Accounting
  - Can have multiple accounts
- Data Dictionary Tool
- Accessing Tables with Excel
- Crystal Reports



# MDS ODBC Administration Menu

- Provides tools for ODBC Table administration.
- Provides suite of interactive Data Dictionary reports to easily find the tables and fields necessary to create your report or query
- Takes guess work out of finding what you are looking for
- Allows customizing of additional tables and immediate addition to the Data Dictionary

# MDS ODBC Administration Menu

rs6000d - [rs6000d.tshinc.com-14 BASE.12-ODBC.MENU]

File Edit Settings View Reset Tools GUI PDA Standard Functions Special Functions Help

Account:14 BASE.12 Port:014 Menu:ODBC.MENU Capture:On

**MDS ODBC Administration Menu**

1. ODBC File Setup and Maintenance

2. ODBC System Area Maintenance

**Reports:**

3. ODBC Dictionary Listing

4. ODBC Dictionary Listing for An Account

**ODBC Data Dictionary:**

5. ODBC MDS Tables by Area

6. ODBC Tables with Field listings

7. ODBC Field Dictionary

Enter Selection or END :

CONTACTS	MAINT	DRILL	EXECINQ	REPORTS	CAPT OFF	VIEW	CRM.MENU	VRM.MENU		
HELP	OK/END	INSERT	LDELETE	PREV PG	NEXT PG	INQUIRY	CANCEL	Off		Popup

# MDS Data Dictionary

powered by crystal

Preview

AP  
AR  
COMP  
CUST  
CL  
INV  
GDBC  
PO  
PRICE  
PROD  
SALES  
VEND

**PROD**

AREA	DESCRIPTION
PROD	<b>Product and Inventory</b> The main tables for storing Product and Inventory information in the MDS system are PROD.MAST and PROD.DET. The PROD.MAST or Product Master Table stores descriptive product level information while the PROD.DET or Product Detail table stores inventory information at the Warehouse and Product level. The PROD.DET table stores the summary inventory information about each Product in a Warehouse such as On Hand, On Order, Locations etc.,. The LOCATION file is used to keep a record of each Location that is valid for a warehouse. The LOT file is used to keep the detail location level inventory. The total On Hand inventory for all items in the LOT file for a specific Product and Warehouse should ALWAYS match the summary inventory On Hand kept in the PROD.DET table. The PROD.DET also keeps track of each location that is in the LOT file for each product in a warehouse.
INV.AUDIT	<b>INV.AUDIT</b> The INV.AUDIT file contains a log of all transactions affecting the on hand inventory position. This file forms the basis of the Inventory Audit report and the Inventory History transaction inquiries. Key: Sequential Counter: 01235
LOCATION	<b>LOCATION</b> The Location table contains a list of all of the Inventory Locations that can be used. The file contains a record for each Warehouse / Location combination. A list of all Products stored in the location is also stored here. Each record also contains information about the Location such as environment, dlc, and type. Key- Warehouse : Location = 001AAG1-11-1
LOT	<b>LOT</b> The LOT file is used to keep detailed Location and/or Lot level inventory for a Product. If the Locator system is on then there will be a record for each Location that a Product is in. If the Lot system is being used then there will be a record for each Location and Lot#. The total On Hand inventory for all the LOT records for a Product matches to the On Hand inventory kept in the PROD.DET file for that Product and Warehouse. Key- Warehouse:Product * Location * Lot# (optional) - 0012345678901-01-1* for example of lot definition

start | Wind... | Microsoft... | odbcare... | XPSRidd... | Forums:... | Micro... | Wind... | 5:52 PM

➤ Area : Easily find files associated with area chosen



# MDS Data Dictionary

The screenshot displays the MDS Data Dictionary application window. The interface includes a menu bar (Preview, Design, Oper Report, Save Report), a toolbar with navigation icons, and a status bar at the bottom. On the left, a tree view lists various data sources, with 'PROD.DET' selected. The main area shows the 'ODBC Field Listing for : PROD.DET' report, which includes a description of the data source and a list of fields with their data types and lengths.

powered by crystal

### ODBC Field Listing for : PROD.DET

The PROD.DET or Product Detail file contains an entry for each product for each warehouse in which it is stored. This file contains basic inventory data, inventory parameters and usage information. The On Hand inventory and list of locations is stored in this table.  
Key Warehouse : Product# : 001123456

<b>ACC PHYS CNT</b> ACCEPTED PHYSICAL COUNT	R	8
<b>ADJ MTD</b> STOCK ADJUSTMENTS MTD	FN	7
<b>ADJ YTD</b> STOCK ADJUSTMENTS YTD	FN	7
<b>AUTO LOT</b> Enter Y to allow Auto Lot Selection for this product when parameter 102 is on (Y). Enter N if there should be no Auto Lot Selection for this product.	L	1
<b>AVAIL</b>	R	6
<b>AVG COST PD</b> AVERAGE COST FOR THIS WAREHOUSE	N	U
<b>A PROD NO</b>	L	10

- Files : Simply identify fields to use in query

# MDS Data Dictionary

The screenshot displays the MDS Data Dictionary application interface. The window title is "MDS Data Dictionary". The interface includes a menu bar with "Preview", "Design", "Open Report", and "Save Report". Below the menu bar is a toolbar with various icons and a "100%" zoom level. The main area is divided into a left-hand "Preview" pane and a right-hand data pane. The "Preview" pane lists various fields such as NYJUD9, N\_ORD\_MTD\_DT, N\_ORD\_YTD\_DT, OC\_WO, OF\_NEG\_INV, OF\_PHYS, OI\_QTY, OF\_ZERO\_IND, OLD\_CST, OLD\_INV, OLD\_INV\_AMT, OLD\_INV\_DT, OLD\_PRICE, OLD\_RET\_PRICE, ONACC\_PMT, OGG\_DATE, OPBAL-Y, OPBAL-NY, OPDAL-TY, OPEN\_ACTION, OPEN\_BAL, OPEN\_ORD\_VAL, OPEN\_QTY, OPER, OPER\_CODE, OPER\_REF, ORD\$MTD, ORD\$YTD, ORDER#, ORDERED\_BY, ORDER\_DATE, ORDER\_NO, ORDER\_TYPE, ORD\_BY, ORD\_BY\_CS, ORD\_COST, and ORD\_DAT. The right-hand pane displays details for selected fields, including their descriptions and associated tables. The fields shown are OI\_QTY, OH\_ZERO\_IND, OLD\_CST, OLD\_INV, OLD\_INV\_AMT, OLD\_INV\_DT, and OLD\_PRICE. The OI\_QTY field is highlighted with a red border. The descriptions and table references are as follows: OI\_QTY: "The On-Hand Inventory for this Product in this Warehouse. Tables: PROD.DET"; OH\_ZERO\_IND: "FIRST TIME ON HAND ZERO INDICATOR. Tables: PROD.DET"; OLD\_CST: "PRICE -- Y/M. Tables: PROD.MART"; OLD\_INV: "OLDEST INVOICE NUMBER. Tables: CUST.DET, CUST.MART"; OLD\_INV\_AMT: "AMOUNT OF OLDEST OPEN INVOICE. Tables: CUST.MART, CUST.DET"; OLD\_INV\_DT: "DATE OF OLDEST OPEN INVOICE. Tables: CUST.DET, CUST.MART"; OLD\_PRICE: "OLD PRICE RANGE 0 TO 939993.99. Tables: PRICE." The Windows taskbar at the bottom shows the Start button, several open windows, and the system clock displaying 6:35 PM.

➤ Fields: Find additional information regarding fields

# MDS ODBC

- ODBC Field Maintenance
  - Add additional files and fields.

The screenshot shows a window titled "documentation - Trs0000030 UASL 12 ODBC FIELD MAINT012511". The window contains a form for ODBC Field Maintenance. At the top, there are fields for "ODBC Account" (BASE.12.ODBC), "Data Account" (BASE.12), and "Data File Name" (ODSTASST). Below these is a table with columns: "Link", "MDS Field Name", "Description", "MV", "MVTuple", and "Key". The table lists four rows of ODBC fields. At the bottom, there is a status bar with a "HELP" button and a "PAGE 1 OF 2" indicator.

Link	MDS Field Name	Description	MV	MVTuple	Key
1	ASHIP ODBC Field Name ASHIP -12	NO. OF SHIP HITS	S		
2	ACC PART ACC_PART -29	ACCEPTS PARTIAL SHIPMENTS * ACC PART N DOES NOT ACCEPT	S		1
3	ACC SUB ACC_SUB -40	ACCEPTS SUBSTITUTIONS FLAG * ACCEPTEN DOES NOT ACCEPT	S		1
4	ADMIN FEES ADMIN_FEES -59	ADMINISTRATION FEE PERCENTAGE	S		4

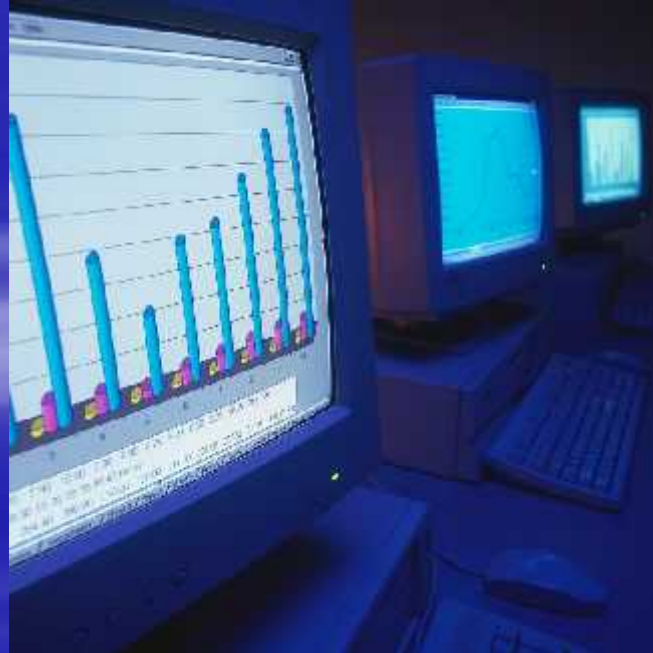
LINK# LINK # TO CHANGE, DLEL#L# TO DLEL#L# TO ACCEPT :

XXXXXXXX PAGE 1 OF 2

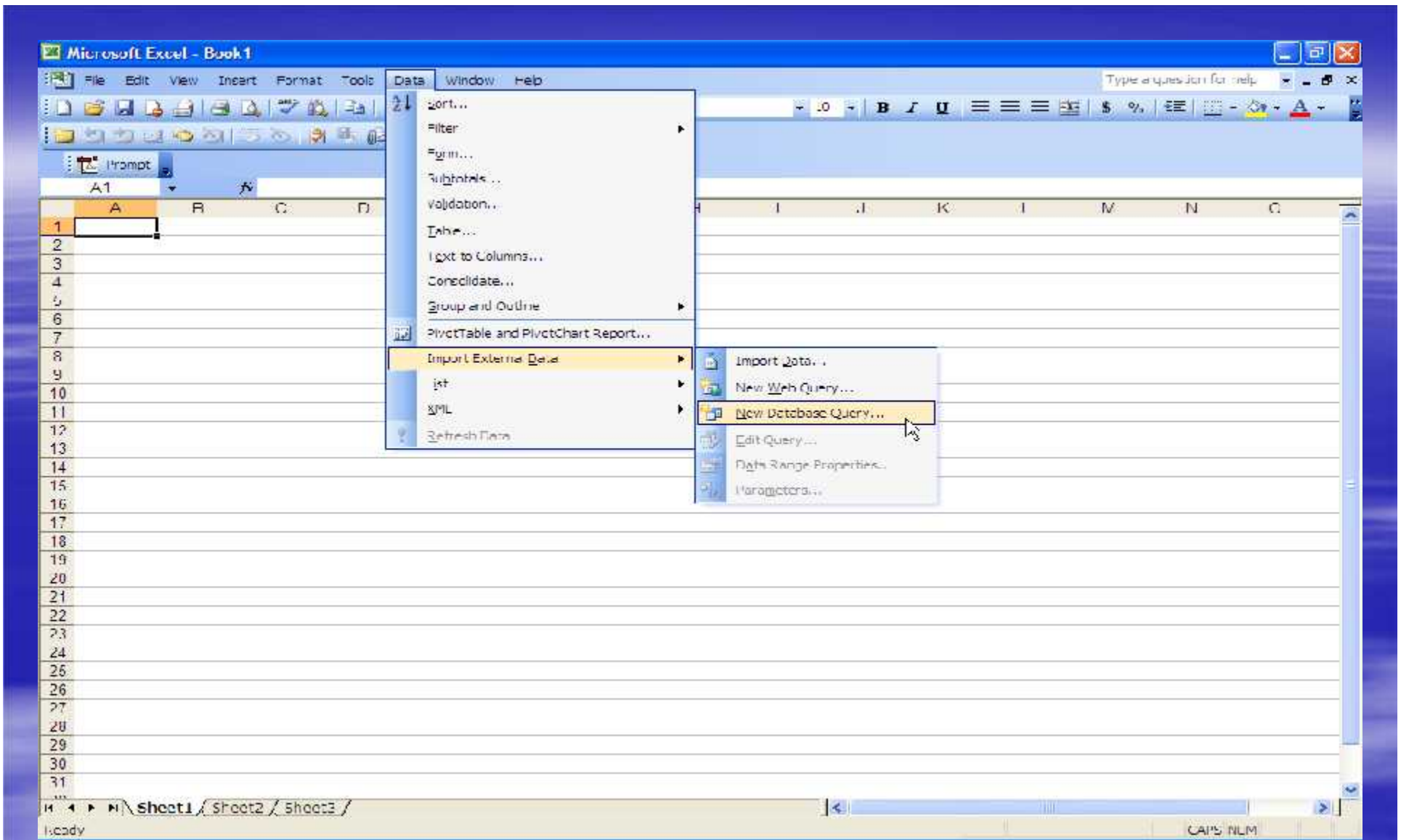
HELP CANCEL INSERT DELETE F5: PG NEXT PG F10: CURR PAGE DEL C1

# MDS ODBC and Excel

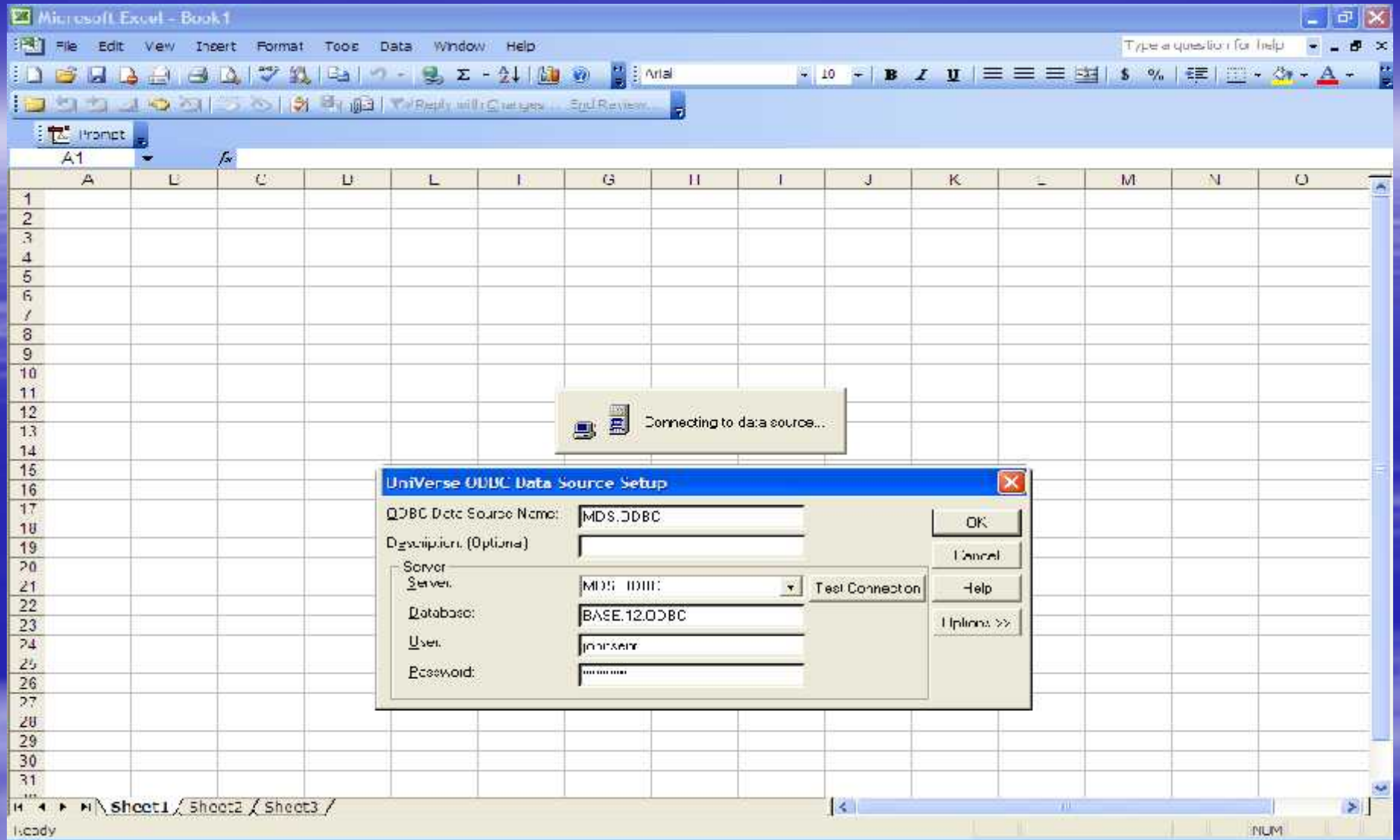
- Ability to connect to MDS database
- Unlike Recall Generator, you can use multiple files to query from
- Create custom reports
- Create custom pivot charts and tables
- Novice users can operate



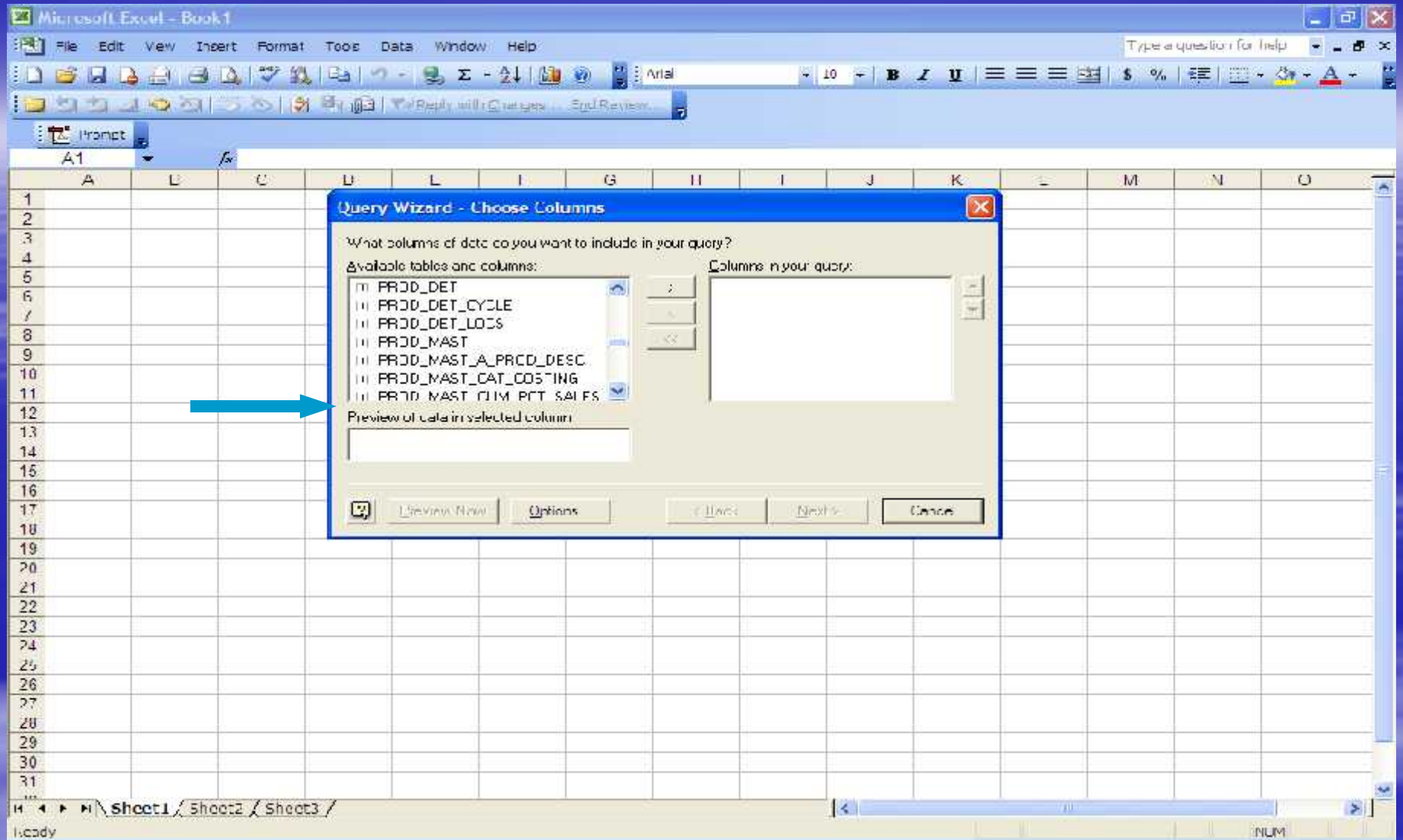




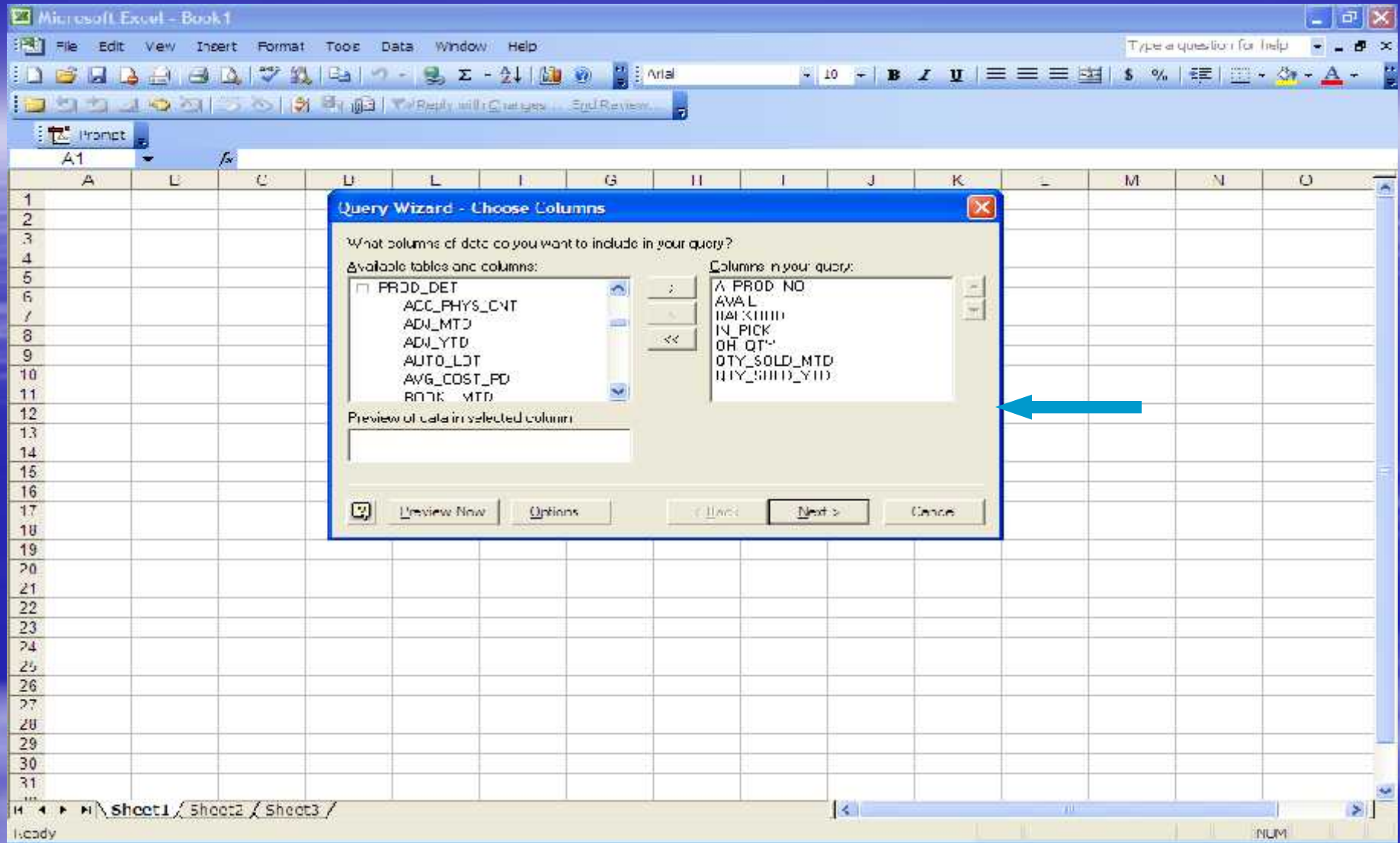
- Importing MDS database to use for query
- Choosing pre-installed data source



- User supplies password
- Excel connects to MDS Database

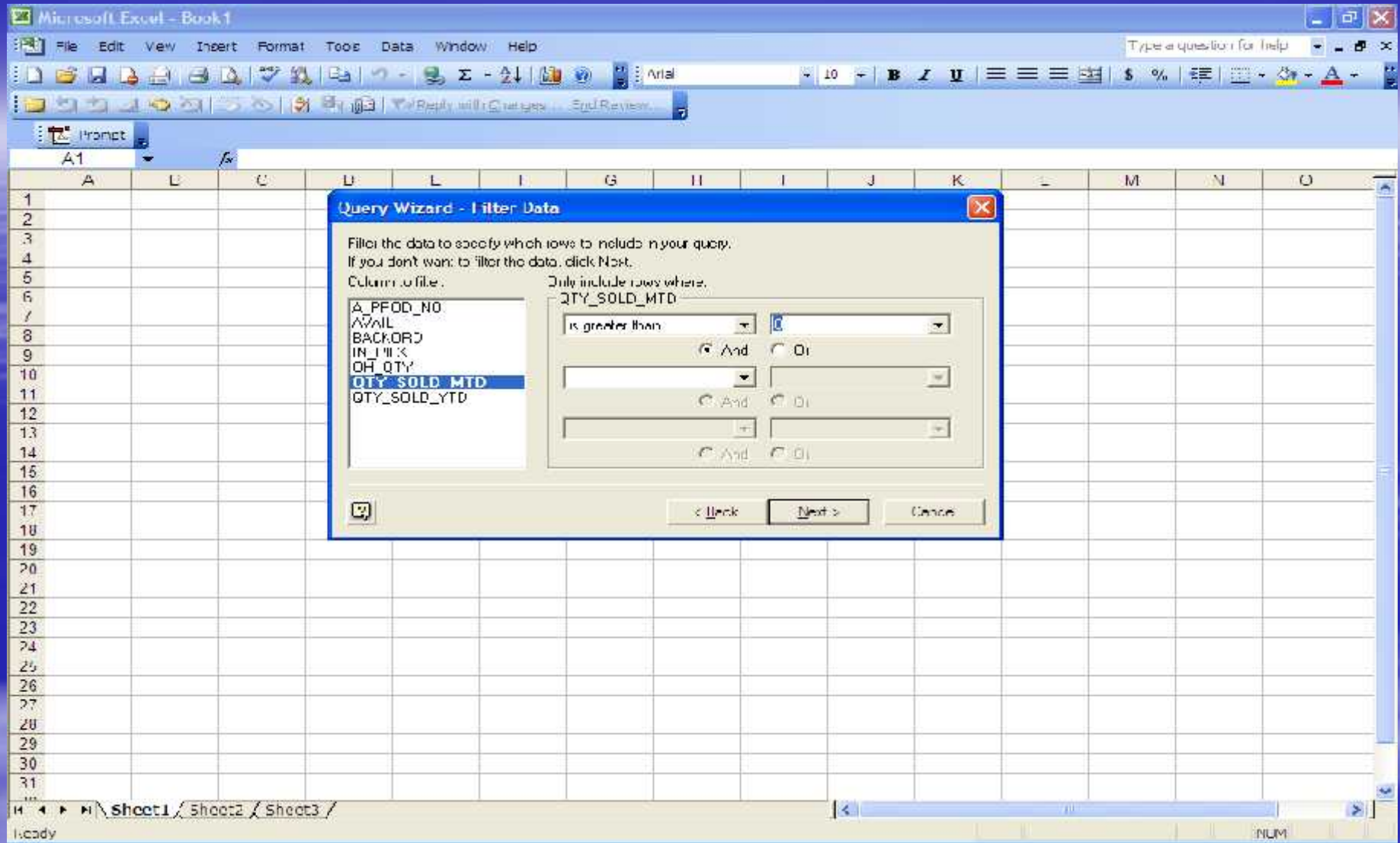


- All available tables are displayed
- Click on “+” next to table to display available columns

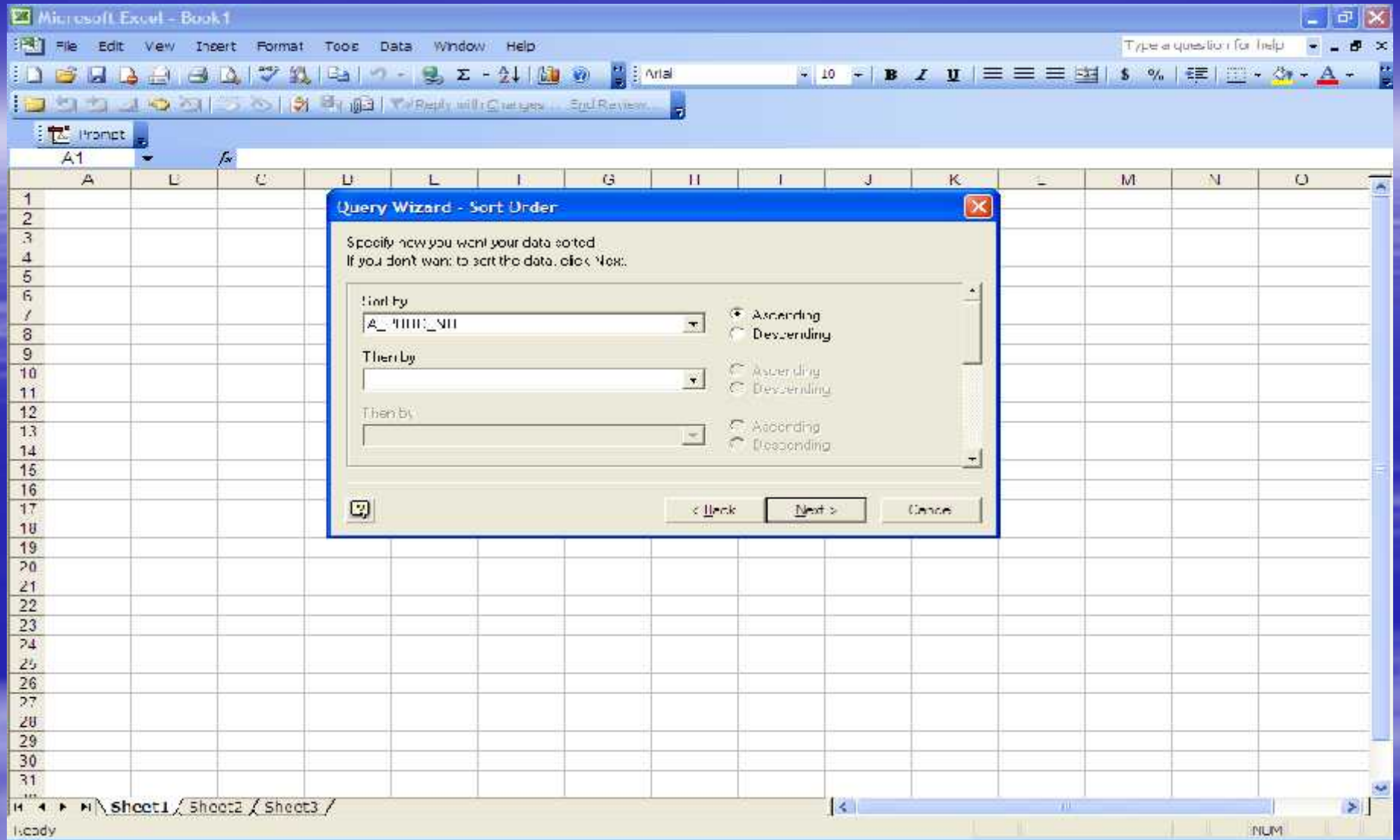


- Available columns are displayed
- Choose columns for your query

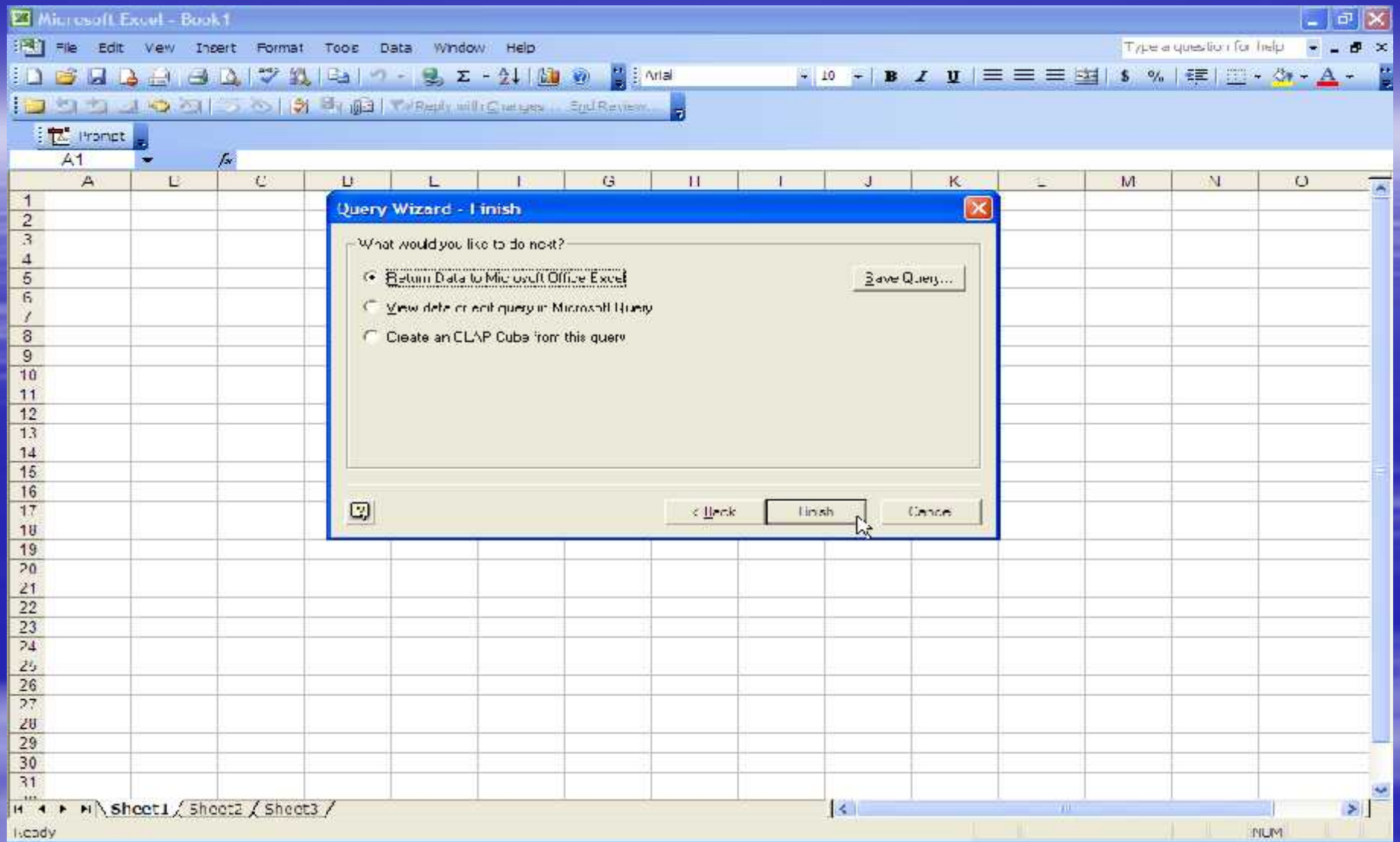




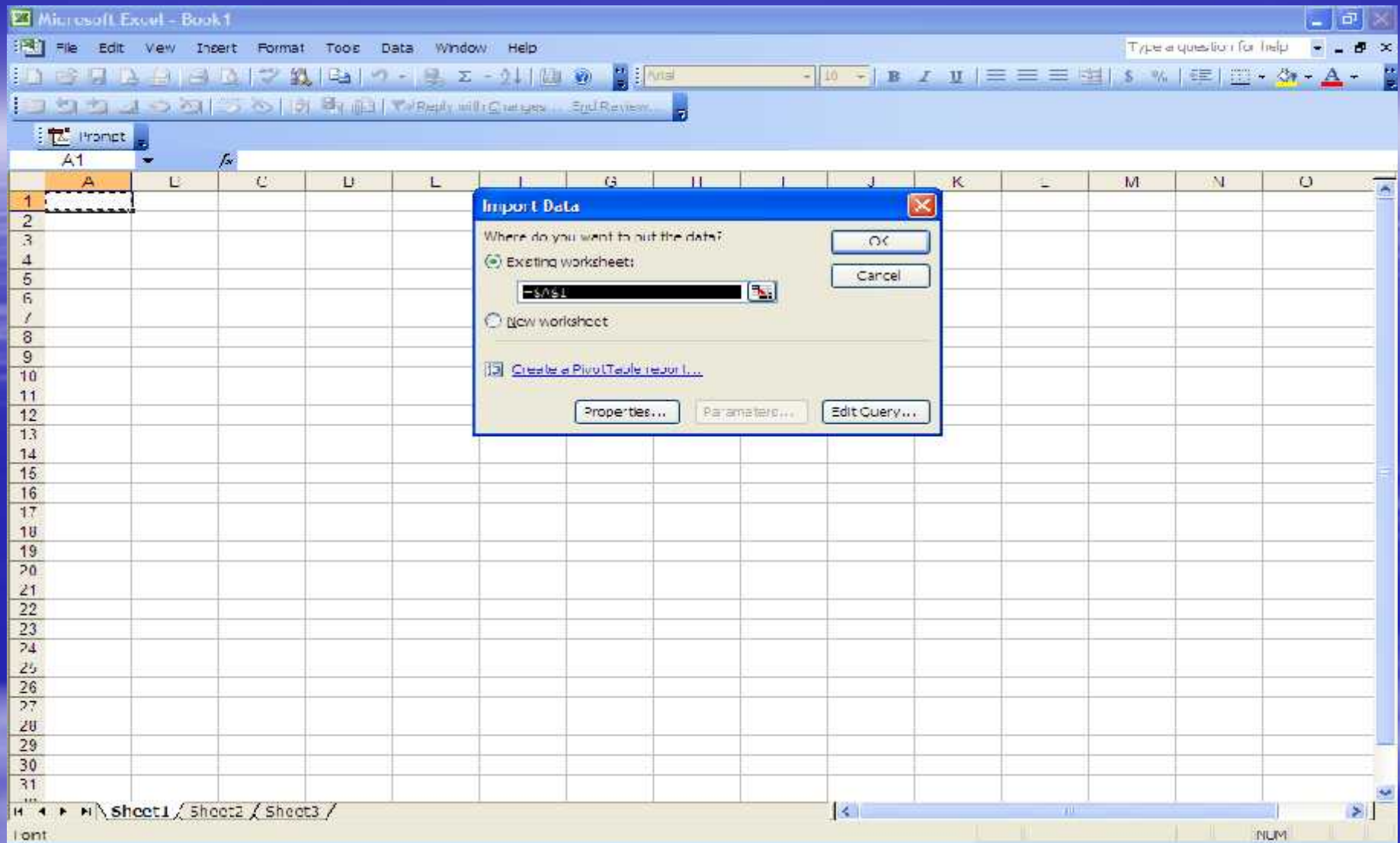
- Filter data to specify certain information to include or not include in your query



- Specify how you want your data sorted



- Finishing Query Wizard
  - Return Data to Excel
  - Save Query



- Place Data
  - Existing or New Worksheet
  - Create a PivotTable report



Microsoft Excel - Book 1

Type a question for help

File Edit View Insert Format Tools Data Window Help

Font: Arial, Size: 10, Bold, Italic, Underline, Paragraph, Styles, Number, Currency, Percentage, Text, Background Color, Font Color, Spelling, Grammar, Review, Help

Print

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	PRCD_NO	AVAIL	BACKORD	IN_PICK	CH_QTY	QTY_SOLD_MTD	QTY_SOLD_YTD						
2	101	2680	18	450	1474	23	676						
3	1021	24	0			4	4						
4	10J	4196	1	408	4154	1	1076						
5	105	1727	4	317	561	312	1457						
6	107	1887	16	166	1568	258	459						
7	109	0				12	37						
8	1091	5	0		5	1	1						
9	109T	57	0	40	97	1	1						
10	3M-350I	56	147	1874	1877	10	1210						
11	404	191	0	4	126	2	2						
12	500	5088	0	26	5104	1	2						
13	AP-9600	-32	6	27	1	15	16						
14	AP-9601	-20	1	30	0	7	12						
15	AP-9602	673	0	6	679	15	47						
16	BAILEY	14	6	49	39	3	9						
17	BULK	155	0		155	20	20						
18	CL4mm	276	0	223	499	1	1						
19	GRACE	58	1	1	78	4	10						
20	KN	4	0		2	6	6						
21	KND1048	1250	0	400	1650	350	350						
22	KND1500A	2900	0	500	3400	200	200						
23	KND2824	9150	0	100	9250	350	350						
24	MINI	173	0	1245	950	13	775						
25	PILSW10PP-GRN	40525	0	123	552	24	24						
26	PILSW10PP-RED	48525	0	117	576	18	18						
27	RFRATE	22	0		22	4	4						
28	RICH	132	0	15	63	5	17						
29	SPEX	613	5	33	650	2	23						
30	TEST_LOT	12	0	2	14	1	1						
31	TOM4	10000	41	67	8886	1	3						

Sheet1 / Sheet2 / Sheet3

licady

NLM

- Simple query displayed

# MDS ODBC and Excel - PivotTable

Microsoft Excel - Prod3YearSalesQtybyMonth.xls

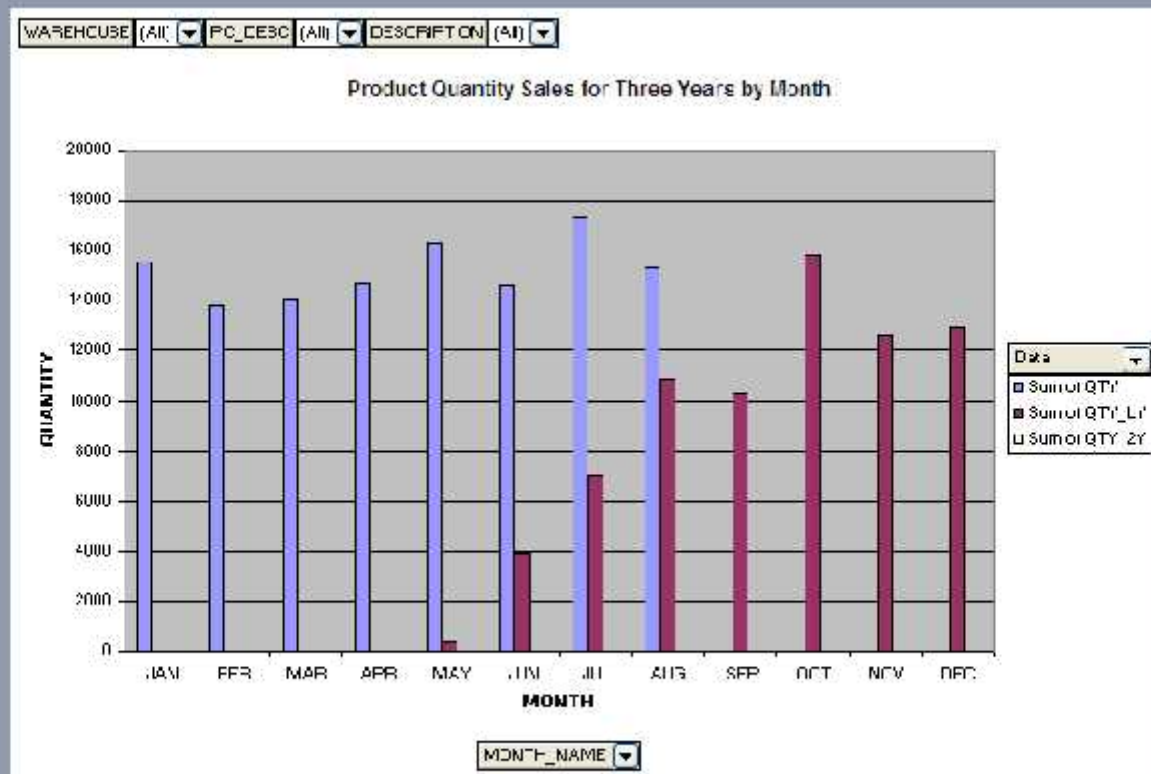
File Edit View Insert Format Tools Data Window Help

Linkivity Meeting

MONTH NAME	Sum of QTY LY	Sum of QTY 2Y
JAN	15520	
FEB	13783	
MAR	14119	
APR	14724	
MAY	15304	240
JUN	14626	3035
JUL	17200	6969
AUG	15335	10828
SEP		10277
OCT		15021
NOV		12622
DEC		12917
Grand Total	121699	73029

Sheet1 | Sheet2 | Sheet3

# MDS ODBC and Excel - PivotChart



# MDS ODBC and Crystal Reports

- Ability to modify existing Crystal Reports using Crystal Reports through WinMDS
- Ability to add Crystal Reports to run in WinMDS



Preview Design Over Report Save Report

72% 1 / 3

powered by crystal

AR Consolidated Report 3/7/2005 Page 1 of 3  
10:50:34AM

Customer Number	Name	AR Bal	Current	31 - 60	61-90	91-120	121 - Over	Sales YTD	Last Pmt D
1000	ST. MARYS MEDICAL	16,478.15	0.00	0.00	0.00	0.00	0.00		2/24/2003
100800	TEST CUSTOMER	496.55	0.00	0.00	496.55	0.00	0.00	496.00	
1010	ST. MICHAELS HOSP	674.66	0.00	0.00	0.00	0.00	0.00	40.00	6/13/2003
1020	COLUMBIA-PRESBYT	1,001.27	0.00	0.00	0.00	0.00	0.00		11/29/1973
1030	MICHAEL GREEN MD	5,023.25	0.00	0.00	0.00	0.00	0.00	3,910.00	11/29/1973
A111	TEST CUST	57.12	0.00	0.00	0.00	0.00	0.00		
ALCO	ALCO SUPPLY COMP	68,327.34	0.00	106.00	0.00	0.00	0.00	467,055.00	11/4/2004
APB	APB TEST CUSTOME	368.35	0.00	326.60	0.00	0.00	0.00	367.00	
BAR	BARTST	6,782.38	0.00	0.00	0.00	0.00	0.00	6,875.00	
BENJ1	BENJ1-CUSTOMER	1,600.00	0.00	0.00	0.00	0.00	0.00		6/13/2003
BENJ1	BENJ1-CUSTOMER	1,600.00	0.00	0.00	0.00	0.00	0.00		6/13/2003
BENJ2	BENJ2-CUSTOMER	3,871.00	0.00	0.00	0.00	0.00	0.00		6/13/2003
COMM	TESTING COMMISSIK	300.00	0.00	0.00	0.00	0.00	0.00	300.00	
CORBIN	CORBIN CORP	1,914.02	31.95	0.00	0.00	0.00	0.00		1/12/2004
CORRIN	CORRIN CORP	1,914.02							10/1/1982
DAK	DAK INC.	210.00	0.00	0.00	0.00	0.00	0.00		1/23/1974
DEAI	MICHAEL GREEN	19,101.10	0.00	0.00	0.00	0.00	0.00		
EGGYS	EGGYS DAIRY EMPC	295.00	0.00	0.00	0.00	0.00	0.00	295.00	

## ➤ Preview

- When running a Crystal Report in WinMDS, the Crystal Report viewer will display the report
- Ability to Print Report

Preview Design Over Report Save Report

72%

1 / 3

powered by crystal

AR Consolidated Report

4/14/2008 Page 1 of 3  
1:05:50 PM

Customer Number	Name	AR Bal	Current	31-60	61-90	91-120	121-Over	Sales YTD	Last Print D
1000	ST. MARYS MEDICAL	16,473.15	0.00	0.00	0.00	0.00	0.00		2/24/2003
100800	TEST CUSTOMER	495.55	0.00	0.00	495.55	0.00	0.00	495.00	
1010	ST. MICHAELS HOSPI	671.66	0.00	0.00	0.00	0.00	0.00	40.00	6/13/2003
1020	COLUMBIA-FREDDYT	1,601.07	0.00	0.00	0.00	0.00	0.00		11/29/1970
1030	MICHAEL GREEN MD	5,001.05	0.00	0.00	0.00	0.00	0.00	3,910.00	11/29/1973
A111									
ALCO								167,055.00	11/4/2004
APB								387.00	
BAR								5,875.00	
BENJ1									6/18/2003
BENJ1									6/18/2003
BENJ2									6/18/2003
COMM								300.00	
CORBIN				0.00	0.00	0.00	0.00		1/12/2004
CORBIN									10/11/2002
DAK	DAK INC.	240.00	0.00	0.00	0.00	0.00	0.00		1/28/1974
DCA1	MICHAEL GREEN	19,161.40	0.00	0.00	0.00	0.00	0.00		
EGGYS	EGGYS DAIRY EMPC	295.00	0.00	0.00	0.00	0.00	0.00	295.00	
<b>Grand Total</b>		<b>530,463.91</b>	<b>51.95</b>	<b>431.60</b>	<b>495.55</b>	<b>0.00</b>	<b>0.00</b>	<b>478,058.00</b>	

**Export**

Format:

- Crystal Reports (RPT)
- Acrobat Format (PDF)**
- Crystal Reports (RPT)
- HTML 3.2
- HTML 4.0
- MS Excel 97-2000
- MS Excel 97-2000 (Data only)
- MS Word
- ODEC
- Record style (columns no spaces)
- Record style (columns with spaces)

OK  
Cancel  
Help

➤ Preview

- Export Function

The screenshot displays the Microsoft Access Report Designer interface. The top menu bar includes 'Preview', 'Design', 'Over Report', and 'Save Report'. The 'Design' tab is active. The left-hand pane shows the 'Main Report' structure with categories like Database Fields, Formula Fields (containing AREAL and Date), Parameter Fields, Group Name Fields, Running Total Fields, SQL Expression Fields, Special Fields, and Unbound Fields.

The main workspace shows a report design with the following sections:

- Report Header (ReportHeaderSection1):** A shaded header area.
- Page Header (PageHeaderSection1):** A shaded area containing the report title 'AR Consolidated Report', 'Print Date', and 'Page N of M'.
- Details (DetailSection1):** A table with columns: [AR Bal], [Curron], [31 - 60], [61-90], [91-120], [121 - Over], [Sales YTD], and [Last Pmt D].
- Report Footer (ReportFooterSection1):** A yellow shaded footer area.
- Page Footer (PageFooterSection1):** A footer area containing the text 'and Total' followed by fields: [#Grand Total], [#1st], [#2nd], [#3rd], [#4th], [#5th], and [#SalesYTD].

A blue callout box at the bottom left contains the following text:

- Design
  - Make and save changes to existing report

# Benefits

- Easily access Real time data
- Flexibility to create own reports – NOW!
- Reduce Expenses - save money on custom programming

