

Query

Microsoft Office 2010

Amir Hossein Habibi

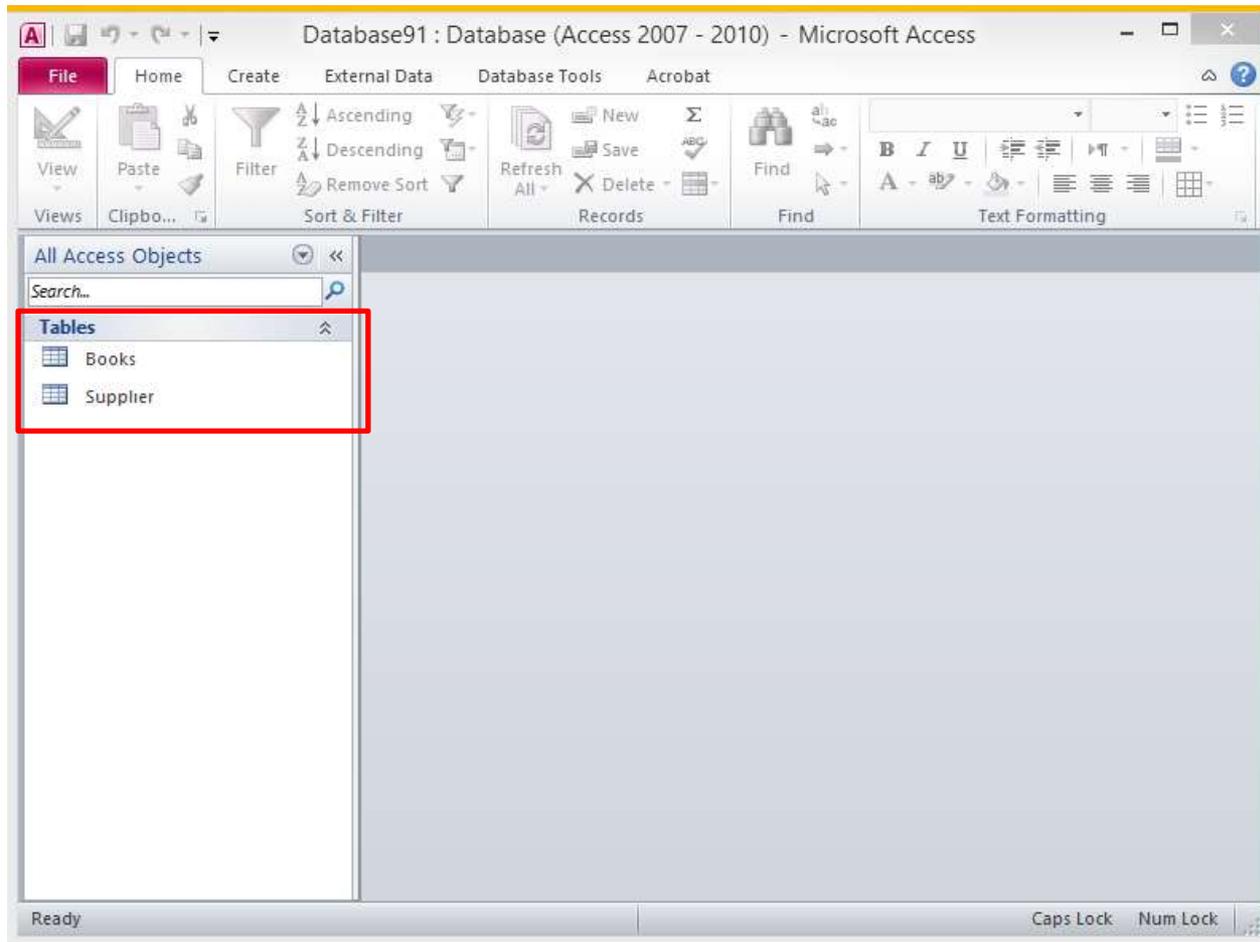
Introduction

The goal of this class is for you to learn how to create and apply queries to analyze and modify data in a database.

Queries are more flexible and more expansive in their capabilities than filtering with the most significant difference being that queries can draw data from more than one table while filters manipulate data from only one table.

When you create a query, you select fields from a list. You can select specific records by creating criteria that control which records you display. You “run” your query by activating the Run tool. The result of your query is called a recordset or dynaset (recordset with dynamic properties).

Tables



Creat Book Table

The screenshot shows the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The 'Table Tools' ribbon is active, showing options for Fields and Table. The 'All Access Objects' pane on the left shows the 'Books' table selected. The main window displays the 'Books' table in Datasheet View with the following data:

Book Id	Book Title	OnHand	Cost	SellPrice	Supplier Co	Click
AC23	Accounting	3	27,00 €	50,00 €	SC	
CA06	Calculus	5	14,00 €	27,00 €	AP	
DE09	Design of Exprimtent	8	7,00 €	13,00 €	BH	
EC34	Economics	7	4,50 €	9,00 €	AP	
FI05	Financial Market	4	6,50 €	12,00 €	AP	
MA01	Managment Information System	3	15,50 €	33,00 €	BH	
OR14	Operation Research	10	4,00 €	8,00 €	SC	
PR02	Probability Model	12	12,00 €	23,00 €	BH	
*						

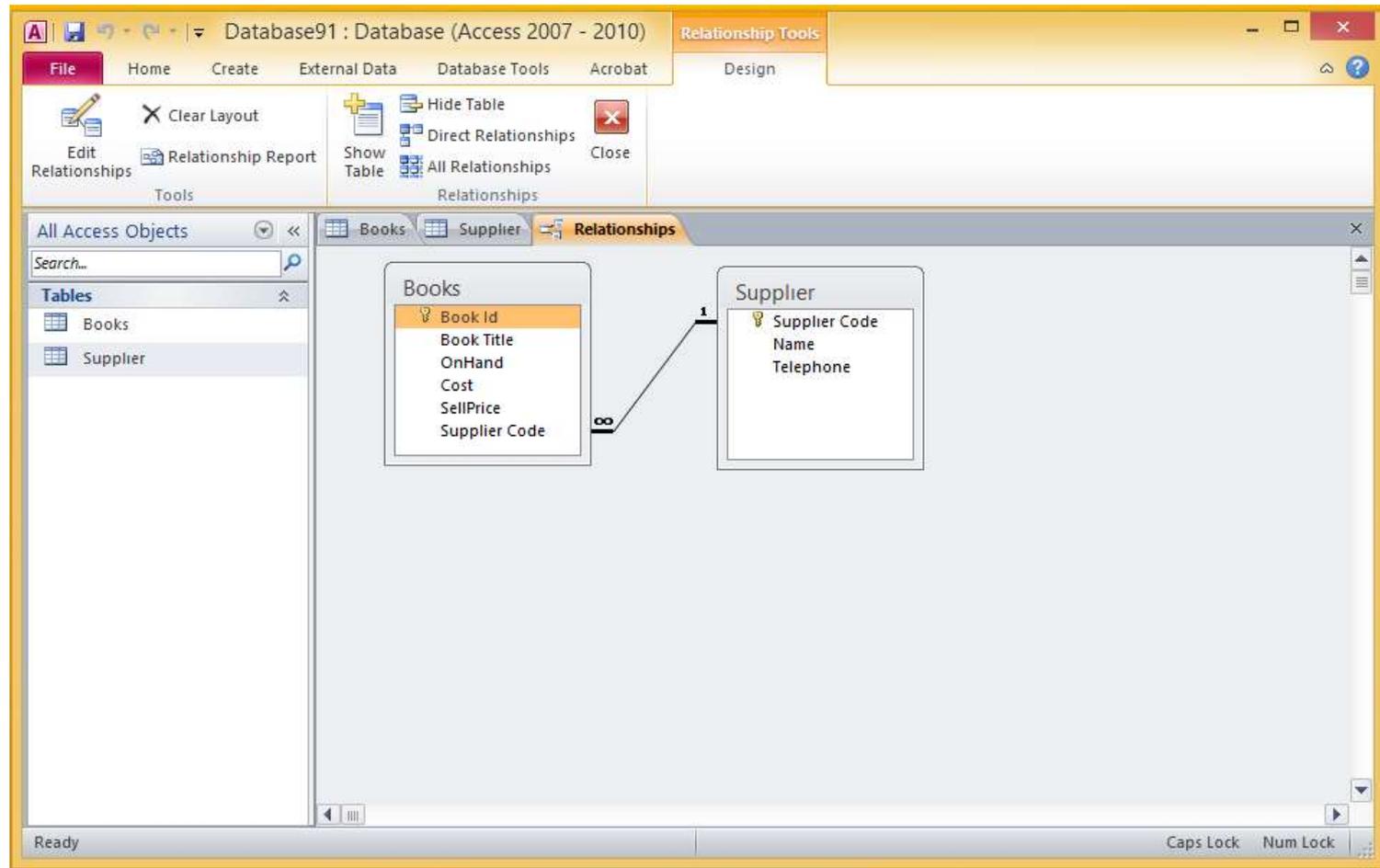
The status bar at the bottom indicates 'Record: 1 of 8', 'No Filter', and 'Search'. The 'Datasheet View' tab is active at the bottom left.

Creat Supplier Table

The screenshot displays the Microsoft Access 2010 interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The 'Supplier' table is open in Datasheet View. The ribbon shows the 'Table Tools' context menu with options like Filter, Sort & Filter, Records, and Find. The 'Text Formatting' group is also visible. The 'All Access Objects' pane on the left shows the 'Supplier' table selected. The status bar at the bottom indicates 'Record: 1 of 3' and 'No Filter'.

Supplier Cor	Name	Telephone	Click to Add
AP	Antonio patino	6451712	
BH	Bert Huntington	6551222	
SC	Sue Chin	6351542	

Relationship



Query Wizard

The screenshot displays the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The 'Table Tools' ribbon is active, and the 'Query Wizard' icon is highlighted with a red box. A 'New Query' dialog box is open, showing a list of query wizard options. The 'Simple Query Wizard' is selected and highlighted with a red box. Below the list, a description states: 'This wizard creates a select query from the fields you pick.' The background shows a data table with columns 'SellPrice' and 'Supplier Co'.

SellPrice	Supplier Co	Click
50,00	SC	
27,00	AP	
13,00	BH	
9,00	AP	
12,00	AP	
33,00	BH	
8,00	SC	
23,00	BH	

Query Wizard

Database91 : Database (Access 2007 - 2010)

Table Tools

File Home Create External Data Database Tools Acrobat Fields Table

Application Parts Table Table Design SharePoint Lists

Templates Tables

All Access Objects

Search...

Tables

- Books
- Supplier

Simple Query Wizard

Which fields do you want in your query?
You can choose from more than one table or query.

Tables/Queries
Table: Books

Available Fields:
Cost

Selected Fields:
Book Id
Book Title
OnHand
SellPrice
Supplier Code

Cancel < Back Next > Finish

SellPrice	Supplier Co	Click
50,00	SC	
27,00	AP	
13,00	BH	
9,00	AP	
12,00	AP	
33,00	BH	
8,00	SC	
23,00	BH	

Record: 1 of 8 No Filter Search

Simple Query Wizard Caps Lock Num Lock

Query Wizard

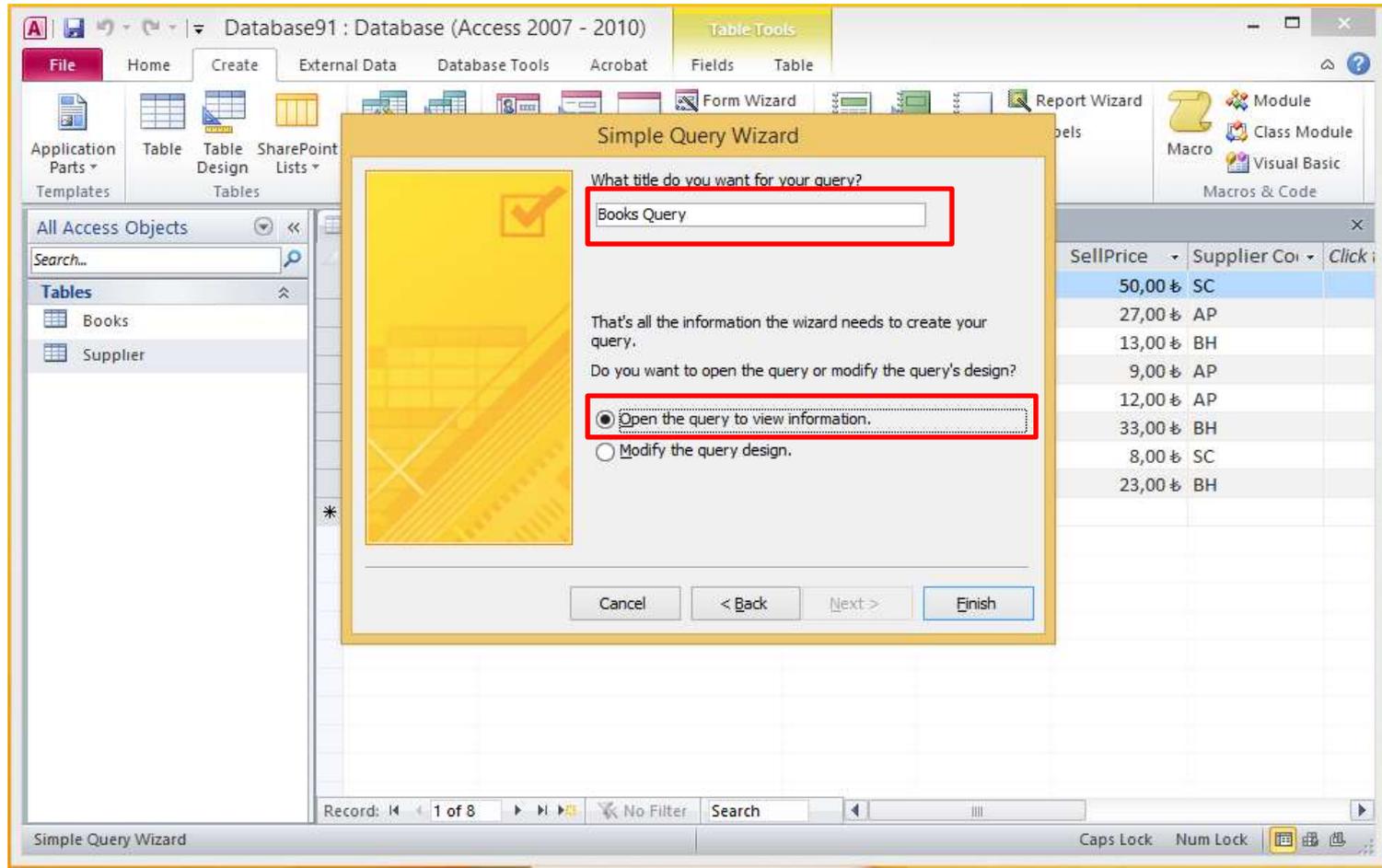
The screenshot displays the Microsoft Access interface with the Simple Query Wizard dialog box open. The dialog box asks, "Would you like a detail or summary query?" and has two radio button options: "Detail (shows every field of every record)" and "Summary". The "Detail" option is selected and highlighted with a red rectangular box. Below the "Summary" option is a button labeled "Summary Options ...". The dialog box also features "Cancel", "< Back", "Next >", and "Finish" buttons at the bottom.

The background shows the Access interface with the following elements:

- File Name:** Database91 : Database (Access 2007 - 2010)
- TableTools Tab:** Fields, Table
- Home Tab:** Application Parts, Table, Table Design, SharePoint Lists, Templates, Tables
- All Access Objects:** Search..., Tables (Books, Supplier)
- Table Data:** A table with columns "SellPrice" and "Supplier Co".
- Table List:** Books, Supplier
- Status Bar:** Record: 1 of 8, No Filter, Search, Caps Lock, Num Lock

SellPrice	Supplier Co	Click i
50,00 €	SC	
27,00 €	AP	
13,00 €	BH	
9,00 €	AP	
12,00 €	AP	
33,00 €	BH	
8,00 €	SC	
23,00 €	BH	

Query Wizard



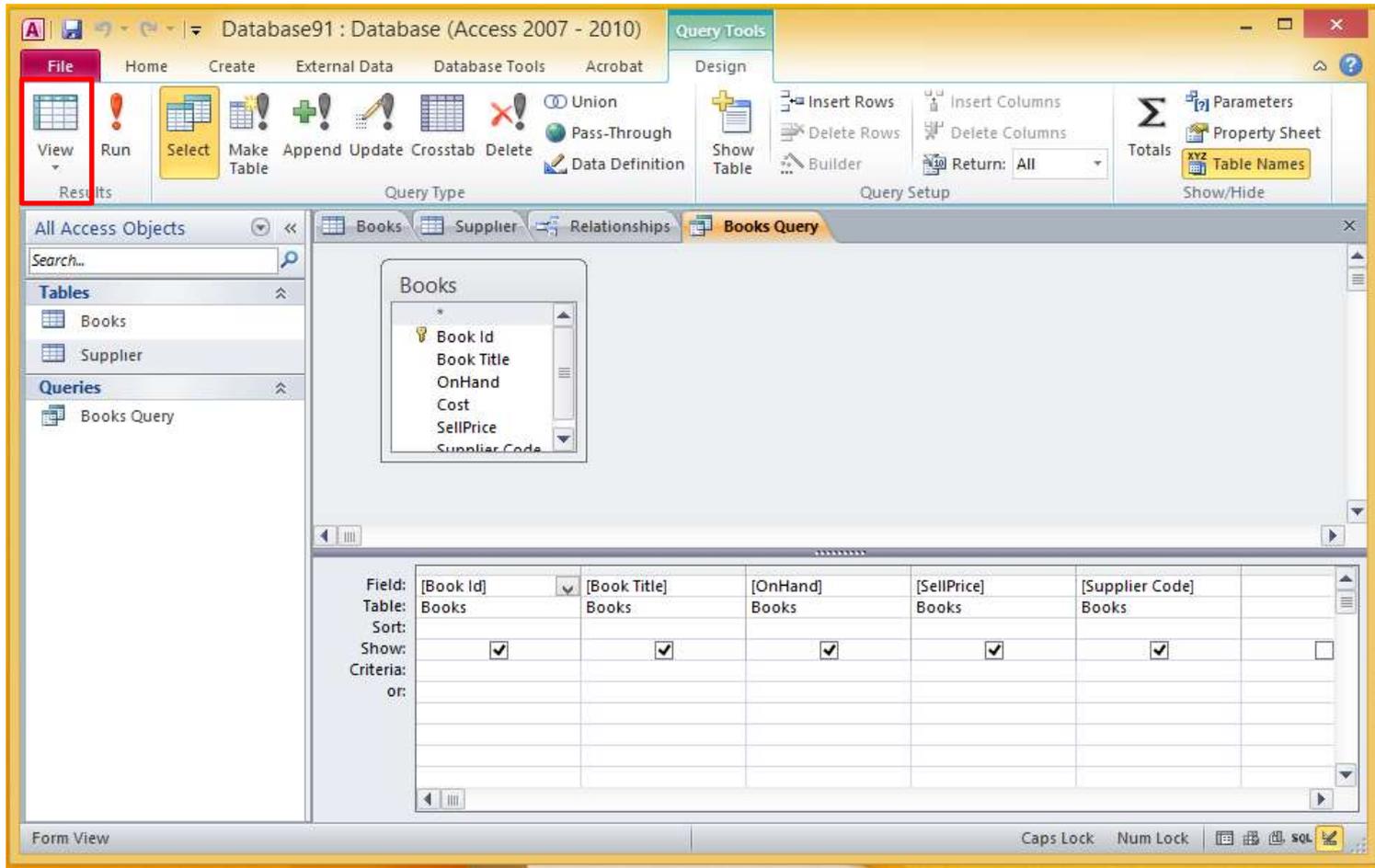
Query Wizard

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options like 'Query Wizard', 'Form Wizard', 'Report Wizard', and 'Module'. The 'All Access Objects' pane on the left shows 'Queries' selected, with 'Books Query' highlighted. The main window displays a data table with the following data:

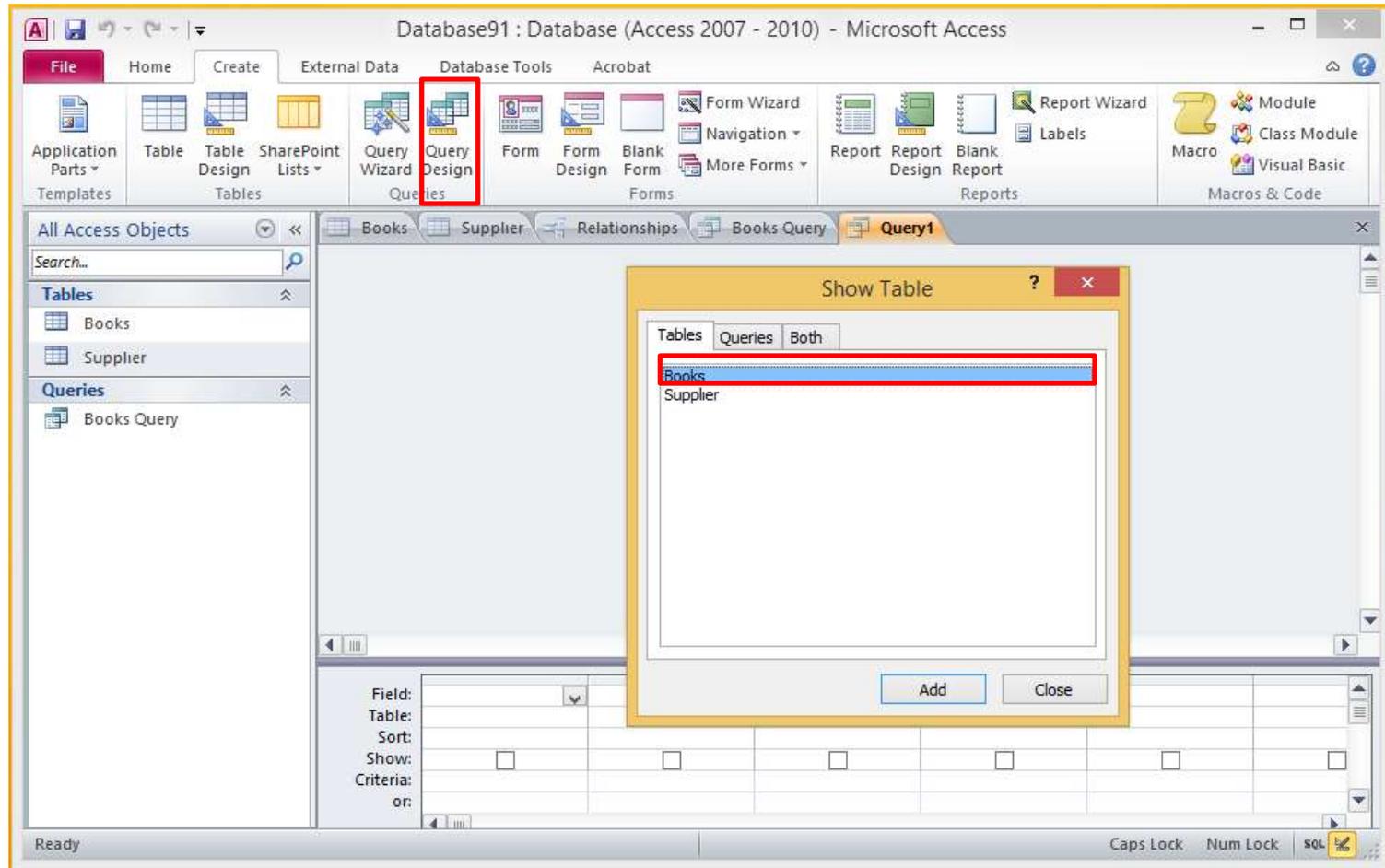
Book Id	Book Title	OnHand	SellPrice	Supplier Co
AC23	Accounting	3	50,00 ₺	SC
CA06	Calculus	5	27,00 ₺	AP
DE09	Design of Exprimtent	8	13,00 ₺	BH
EC34	Economics	7	9,00 ₺	AP
FI05	Financial Market	4	12,00 ₺	AP
MA01	Managment Information System	3	33,00 ₺	BH
OR14	Operation Research	10	8,00 ₺	SC
PR02	Probability Model	12	23,00 ₺	BH

The status bar at the bottom indicates 'Record: 1 of 8' and 'No Filter'.

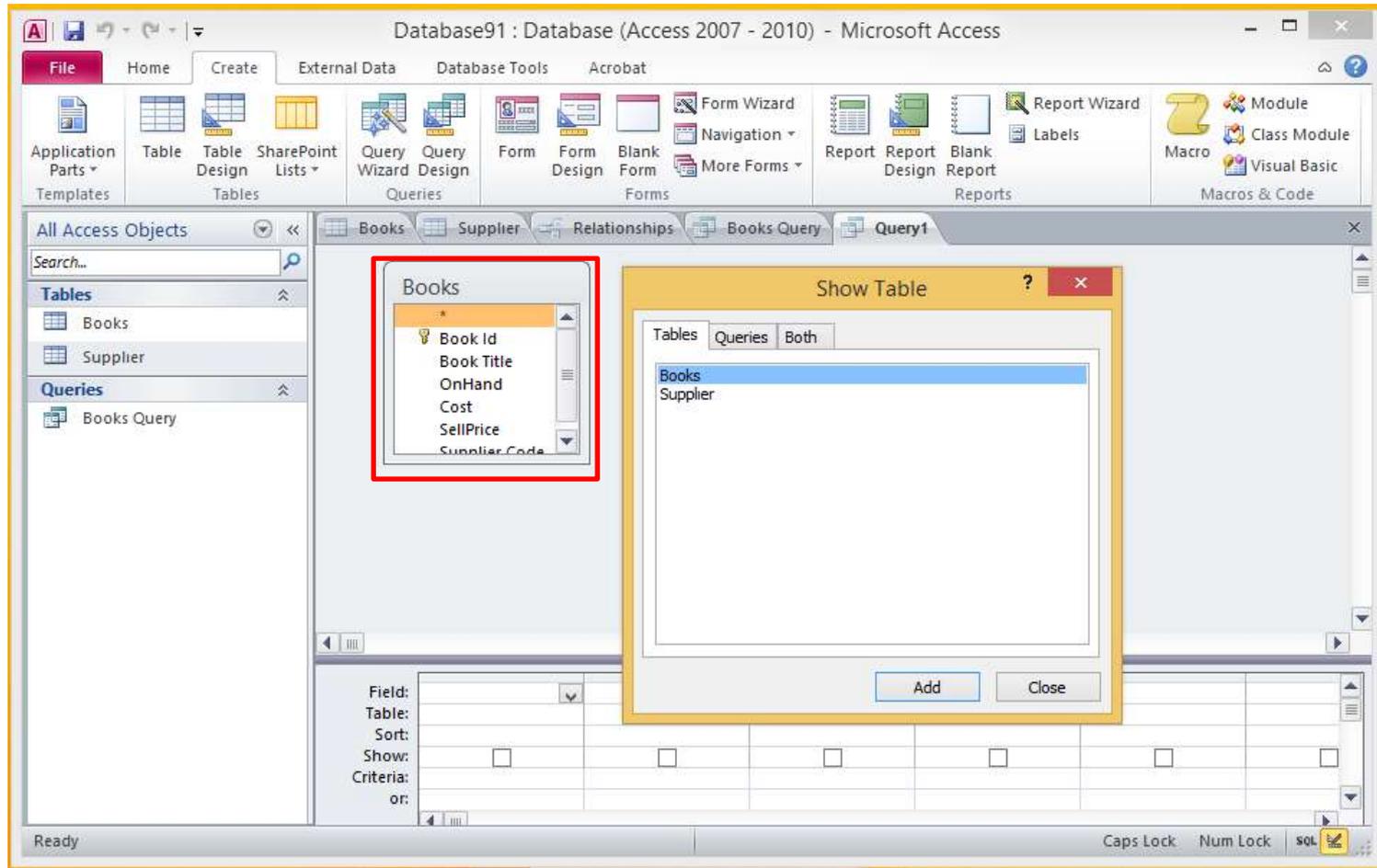
Query Wizard



Query Design



Query Design



Criteria

The screenshot shows the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The 'Query Tools' ribbon is active, showing the 'Design' tab. The 'All Access Objects' pane on the left shows 'Tables' (Books, Supplier) and 'Queries' (Books Query). The main workspace displays the 'Books' table structure with fields: Book Id, Book Title, OnHand, Cost, SellPrice, and Supplier Code. Below this, the 'Query Design' grid is visible, showing a criteria row for the 'Supplier Code' field with the value 'sd' entered. The grid is outlined in red, and the 'sd' value is also enclosed in a red box.

Field	Book Id	Book Title	OnHand	SellPrice	Supplier Code
Table	Books	Books	Books	Books	Books
Sort					
Show	<input checked="" type="checkbox"/>				
Criteria					sd

Criteria

The screenshot displays the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options for 'Filter', 'Sort & Filter', 'Records', and 'Find'. The 'Text Formatting' group is also visible. The 'All Access Objects' pane on the left shows 'Tables' (Books, Supplier) and 'Queries' (Books Query). The main window shows a query named 'Query1' with the following data:

Book Id	Book Title	OnHand	SellPrice	Supplier Co
AC23	Accounting	3	50,00	SC
OR14	Operation Research	10	8,00	SC

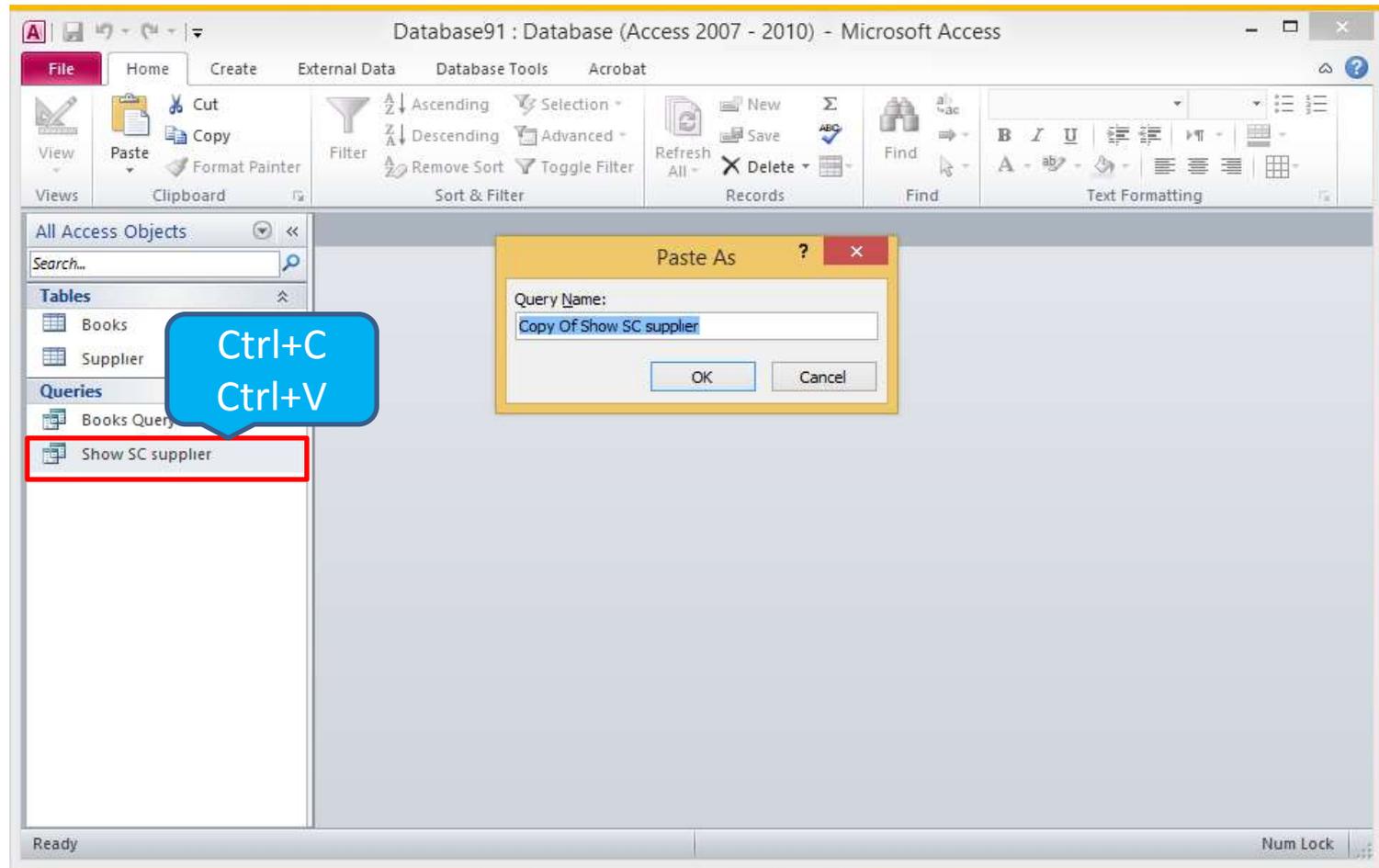
The status bar at the bottom indicates 'Record: 1 of 2', 'No Filter', and 'Search'. The system tray shows 'Caps Lock', 'Num Lock', and a SQL icon.

Criteria

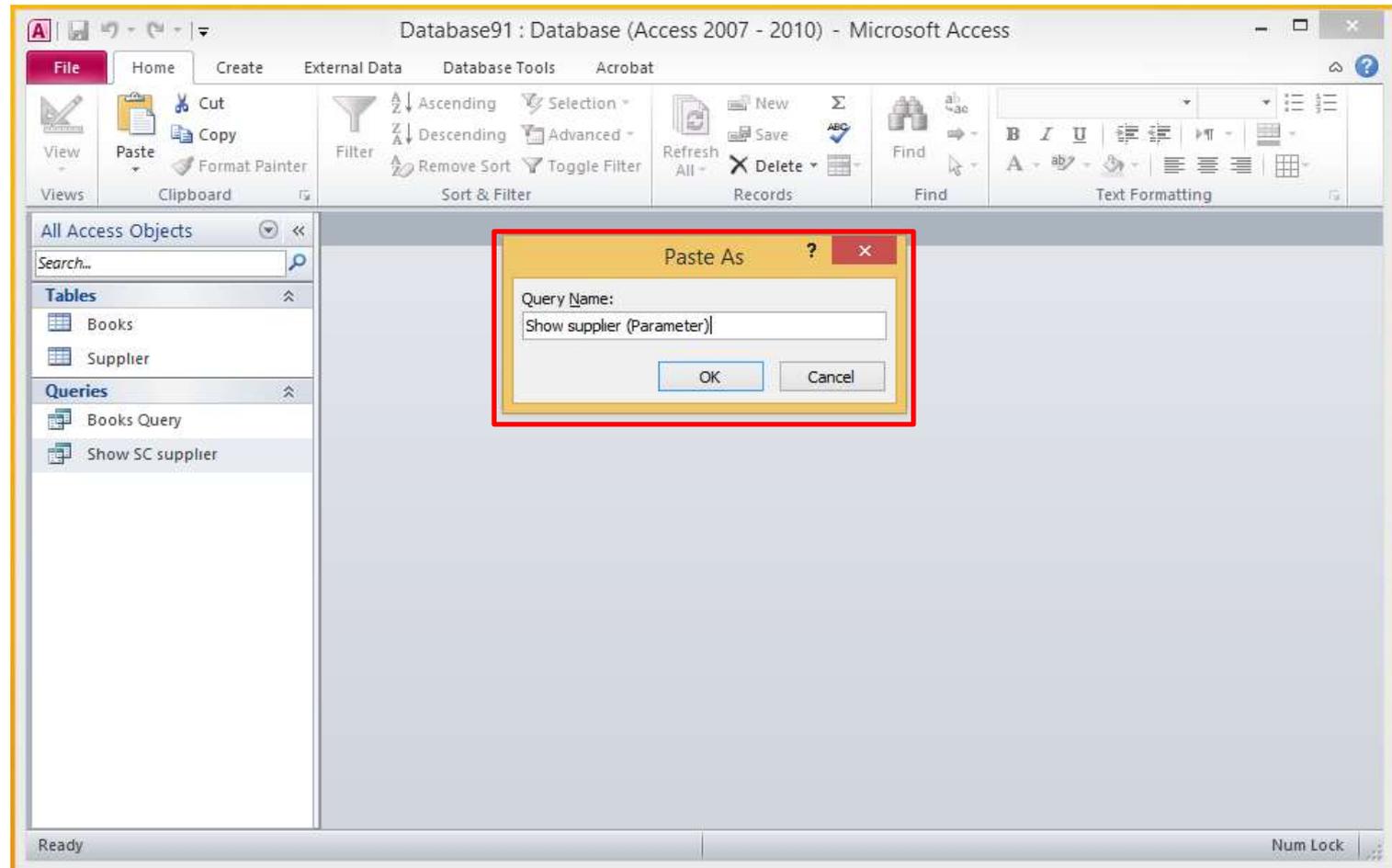
The screenshot displays the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The 'Query Tools' ribbon is active, showing the 'Design' tab. A 'Save As' dialog box is open, prompting for a 'Query Name' with the text 'Show SC supplier' entered. A blue callout bubble with the text 'Ctrl+S' is positioned over the dialog box. The background shows the 'All Access Objects' pane on the left, the 'Books' table in the design view, and a table grid at the bottom with the following data:

Field:	Book Id	Book Title	OnHand	SellPrice	Supplier Code	
Table:	Books	Books	Books	Books	Books	
Sort:						
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Criteria:					"sc"	
or:						

Criteria Parameter



Criteria Parameter



Criteria Parameter

The screenshot shows the Microsoft Access interface for a query named "Show SC supplier". The design grid is as follows:

Field	Book Id	Book Title	OnHand	SellPrice	Supplier Code
Table	Books	Books	Books	Books	Books
Sort					
Show	<input checked="" type="checkbox"/>				
Criteria					[Enter Supplier Code]
or					

Criteria Parameter

The screenshot shows the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The 'Query Tools' ribbon is active, and the 'Run' button is highlighted with a red box. A dialog box titled 'Enter Parameter Value' is open, prompting the user to 'Enter Supplier Code' with the value 'BH' entered in the text box. The dialog box also has 'OK' and 'Cancel' buttons.

The main window displays the 'Show SC supplier' query in Design View. The 'Criteria' row in the design grid is highlighted, showing the parameter '[Enter Supplier Code]' for the 'Supplier Code' field. The 'Show' column has a checkmark for this field.

Field:	Book Id	Book Title	OnHand	SellPrice	Supplier Code
Table:	Books	Books	Books	Books	Books
Sort:					
Show:	<input checked="" type="checkbox"/>				
Criteria:					[Enter Supplier Code]
or:					

Criteria Parameter

The screenshot displays the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Home' ribbon is active, showing options for 'Filter', 'Sort & Filter', 'Records', and 'Text Formatting'. The 'All Access Objects' pane on the left shows 'Tables' (Books, Supplier) and 'Queries' (Books Query, Show SC supplier, Show supplier (Parameter)). The main window shows a data table titled 'Show SC supplier' with the following data:

Book Id	Book Title	OnHand	SellPrice	Supplier Code
DE09	Design of Expriment	8	13,00 €	BH
MA01	Managment Information System	3	33,00 €	BH
PR02	Probability Model	12	23,00 €	BH
*				

The 'Supplier Code' dropdown menu for the first row is highlighted with a red box, showing the value 'BH'. The status bar at the bottom indicates 'Record: 1 of 3' and 'No Filter'.

Product Cost

The screenshot shows the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The 'Query Tools' ribbon is active, showing the 'Design' view. The 'All Access Objects' pane on the left shows 'Tables' (Books, Supplier) and 'Queries' (Books Query, Show SC supplier, Show supplier (Parameter)). The 'Query1' design grid is open, showing the 'Books' table with fields: Book Id, Book Title, OnHand, Cost, SellPrice, and Supplier Code. The 'Cost' field is highlighted with a red box. A blue callout bubble with the text '-Sort -Show' is positioned over the 'Cost' field. The status bar at the bottom shows 'Ready' and 'Num Lock'.

Field:	Book Id	Book Title	Cost			
Table:	Books	Books	Books			
Sort:						
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:						
or:						

Product Cost

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The main window displays a query named 'Query1' with the following data:

Book Id	Book Title	Cost
AC23	Accounting	27,00 €
CA06	Calculus	14,00 €
DE09	Design of Exprimtent	7,00 €
EC34	Economics	4,50 €
FI05	Financial Market	6,50 €
MA01	Managment Information System	15,50 €
OR14	Operation Research	4,00 €
PR02	Probability Model	12,00 €

The interface includes a ribbon with tabs for File, Home, Create, External Data, Database Tools, and Acrobat. The Home tab is active, showing options for Views, Clipboard, Sort & Filter, Records, and Find. The left sidebar shows 'All Access Objects' with a search bar and lists 'Tables' (Books, Supplier) and 'Queries' (Books Query, Show SC supplier, Show supplier (Parameter)). The status bar at the bottom indicates 'Record: 1 of 8' and 'No Filter'.

Product Cost

The screenshot shows the Microsoft Access interface for a database named 'Database91: Database (Access 2007 - 2010)'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Home' ribbon is active, showing options for 'View', 'Clipboard', 'Sort & Filter', 'Records', and 'Text Formatting'. A blue callout bubble with the text 'Ctrl+S' is positioned over the 'Save' icon in the 'Records' group.

The 'All Access Objects' pane on the left shows a tree view with 'Tables' (Books, Supplier) and 'Queries' (Books Query, Show SC supplier, Show supplier (Parameter)). The 'Queries' section is highlighted with a red box.

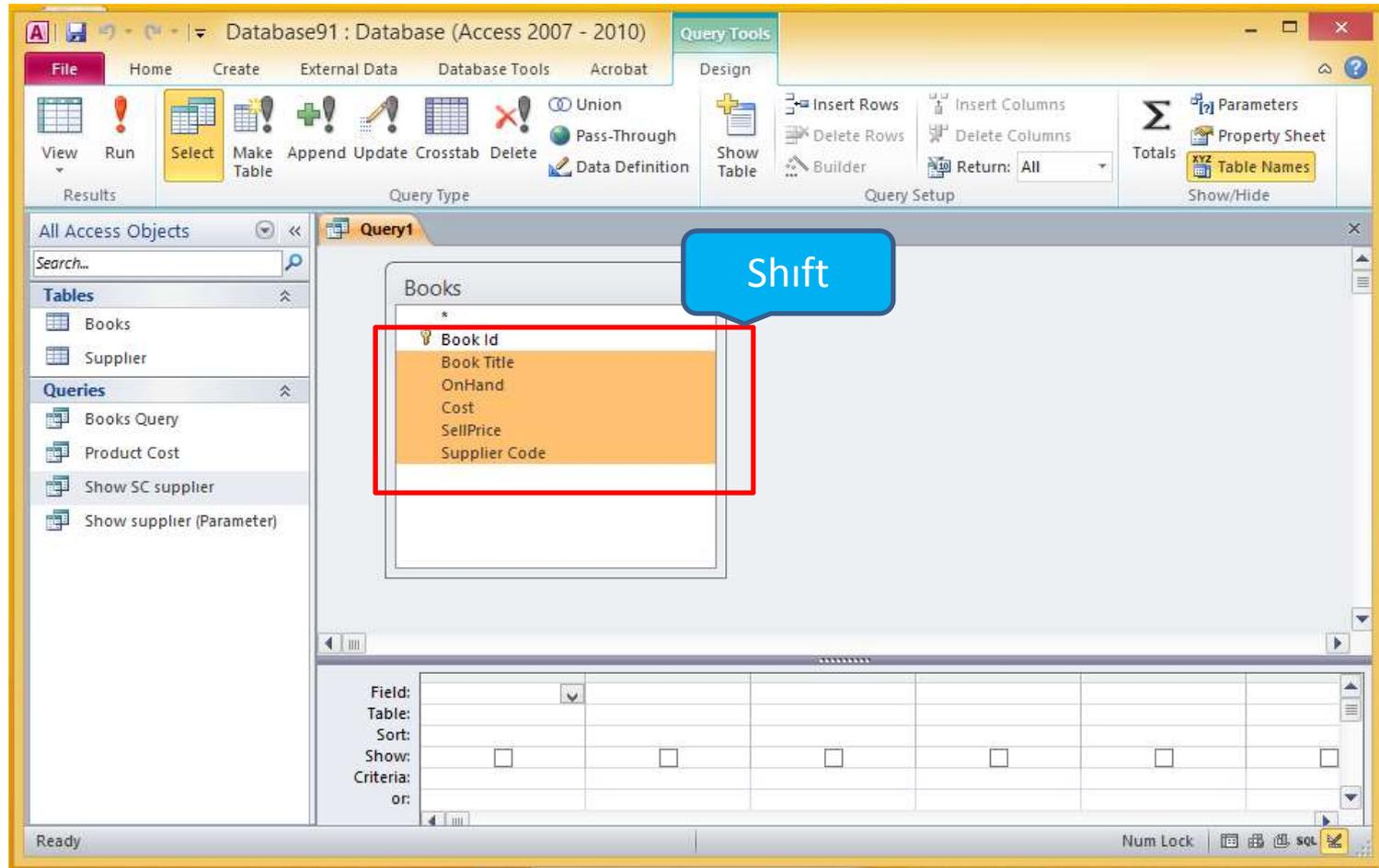
The main window displays a table with columns 'Book Id', 'Book Title', and 'Price'. The 'Book Id' column is selected, and the table contains the following data:

Book Id	Book Title	Price
AC23		
CA06		
DE09		
EC34		
FI05		
MA01	Management Information System	15,50 €
OR14	Operation Research	4,00 €
PR02	Probability Model	12,00 €
*		

A 'Save As' dialog box is open, with 'Query Name:' set to 'Product Cost'. The dialog has 'OK' and 'Cancel' buttons. The dialog box is also highlighted with a red box.

The status bar at the bottom shows 'Record: 1 of 8', 'No Filter', and 'Search'. The system tray includes 'Num Lock' and 'SQL' icons.

Contain



Contain

The screenshot shows the Microsoft Access interface in Design view for a query named 'Query1'. The ribbon includes 'Query Tools' with sub-tabs for 'Design' and 'Query Setup'. The 'Design' tab is active, showing options like 'Insert Rows', 'Delete Rows', 'Insert Columns', and 'Delete Columns'. The 'Query Setup' section shows 'Return: All'. The 'All Access Objects' pane on the left shows 'Tables' (Books, Supplier) and 'Queries' (Books Query, Product Cost, Show SC supplier, Show supplier (Parameter)). The main area displays the 'Books' table structure with fields: Book Id (primary key), Book Title, OnHand, Cost, SellPrice, and Supplier Code. Below this, the query design grid is shown with the following data:

Field:	Book Id	Book Title	OnHand	Cost	SellPrice	Supplier Code
Table:	Books	Books	Books	Books	Books	Books
Sort:						
Show:	<input checked="" type="checkbox"/>					
Criteria:		*ment*				
or:						

The cell containing '*ment*' in the 'Criteria' row for the 'Book Title' field is highlighted with a red rectangular box.

Contain

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Home' ribbon is active, showing options for 'Views', 'Clipboard', 'Sort & Filter', 'Records', 'Find', and 'Text Formatting'. The 'All Access Objects' pane on the left shows 'Tables' (Books, Supplier) and 'Queries' (Books Query, Product Cost, Show SC supplier, Show supplier (Parameter)). The main window displays a query named 'Query1' with the following data:

Book Id	Book Title	OnHand	Cost	SellPrice	Supplier Coi
DE09	Design of Exprimtent	8	7,00 €	13,00 €	BH
MA01	Management Information System	3	15,50 €	33,00 €	BH

The status bar at the bottom indicates 'Record: 1 of 2', 'No Filter', and 'Search'. The system tray shows 'Ready' and 'Num Lock'.

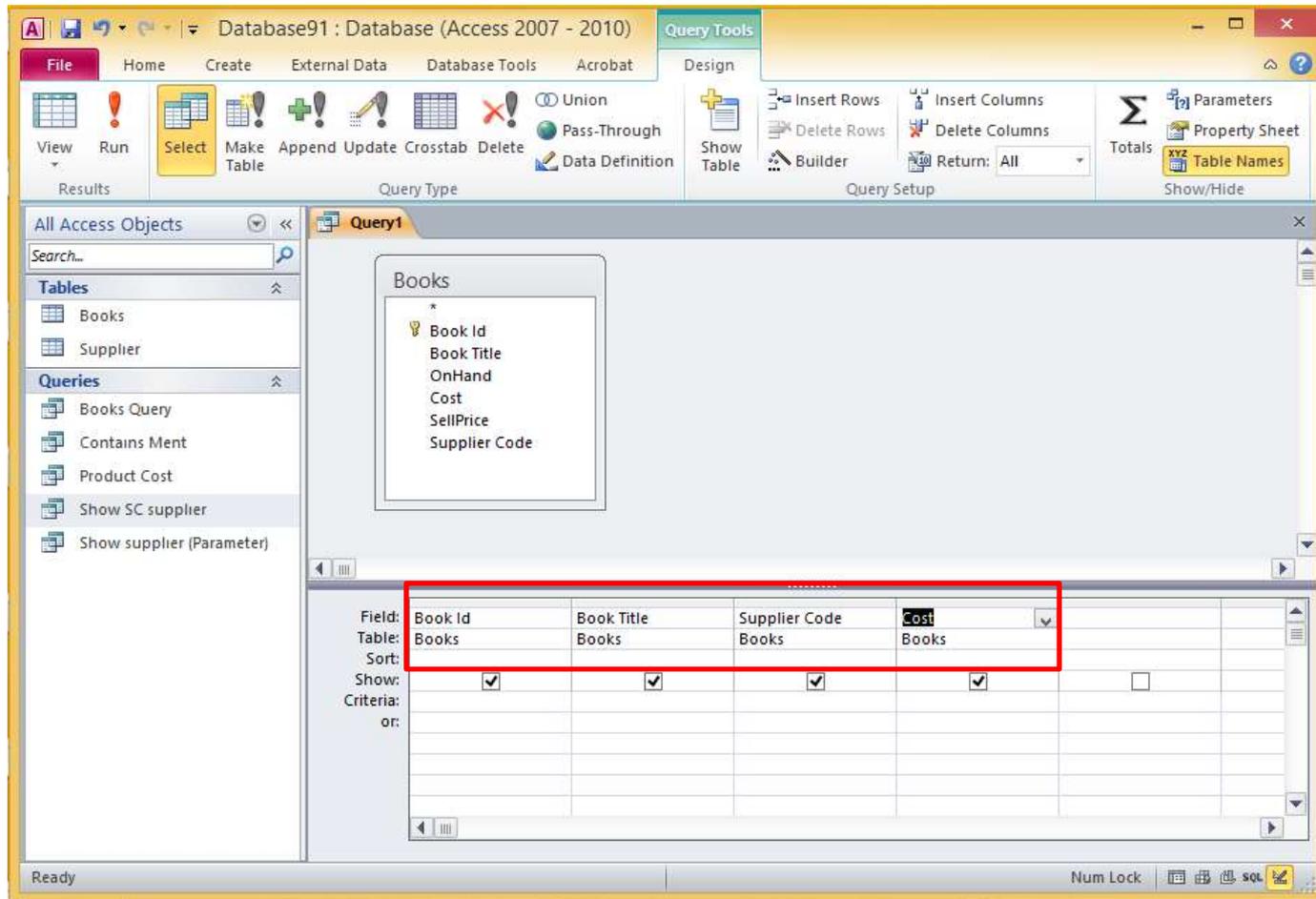
Contain

The screenshot displays the Microsoft Access interface for a database named 'Database91'. The ribbon is set to the 'Database Tools' tab, and the 'Records' group is active. A blue callout bubble with the text 'Ctrl+S' is positioned over the 'Save' button in the ribbon. A 'Save As' dialog box is open, showing the 'Query Name' field with the text 'Contains Ment'. The background shows a table with the following data:

Book Id	Cost	SellPrice	Supplier Co
DE09	7,00 €	13,00 €	BH
MA01	15,50 €	33,00 €	BH

The status bar at the bottom indicates 'Record: 1 of 2' and 'No Filter'.

Less Than ...



Less Than ...

The screenshot shows the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The 'Query Tools' ribbon is active, showing the 'Design' tab. The 'All Access Objects' pane on the left lists 'Tables' (Books, Supplier) and 'Queries' (Books Query, Contains Ment, Product Cost, Show SC supplier, Show supplier (Parameter)). The main workspace displays the 'Books' table with fields: Book Id, Book Title, OnHand, Cost, SellPrice, and Supplier Code. Below this, the 'Query Design' grid is shown with a red box highlighting the 'Cost' field, which has a filter criterion of '< 10'.

Field:	Book Id	Book Title	Supplier Code	Cost
Table:	Books	Books	Books	Books
Sort:				
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:				< 10
or:				

Less Than

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options for 'Sort & Filter', 'Records', and 'Find'. The 'All Access Objects' pane on the left shows a tree view with 'Tables' (Books, Supplier) and 'Queries' (Books Query, Contains Ment, Product Cost, Show SC supplier, Show supplier (Parameter)). The main window displays 'Query1' with the following data:

Book Id	Book Title	Supplier Cor	Cost
DE09	Design of Exprimnt	BH	7,00 €
EC34	Economics	AP	4,50 €
FI05	Financial Market	AP	6,50 €
OR14	Operation Research	SC	4,00 €

A red rectangular box highlights the 'Cost' column in the table. The status bar at the bottom indicates 'Record: 1 of 4' and 'No Filter'.

Less Than

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options like 'Filter', 'Sort & Filter', 'Records', and 'Text Formatting'. A blue callout bubble with the text 'Ctrl+S' is positioned over the 'Save' icon in the 'Records' group.

The 'All Access Objects' pane on the left shows a tree view with 'Tables' (Books, Supplier) and 'Queries' (Books Query, Contains Ment, Product Cost, Show SC supplier, Show supplier (Parameter)).

The main window displays a query named 'Query1' in Datasheet view. The data is as follows:

Book Id	Cost
DE09	7,00 €
EC34	4,50 €
FI05	6,50 €
OR14	4,00 €

A 'Save As' dialog box is open, showing the 'Query Name' field with the text 'Cost Lees Than 10 Dollar'. The dialog has 'OK' and 'Cancel' buttons.

At the bottom of the window, the status bar shows 'Record: 1 of 4', 'No Filter', and a search box. The bottom right corner includes 'Num Lock' and icons for grid, SQL, and help.

Greater Than ...

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The 'Query Tools' ribbon is active, showing the 'Design' tab. The 'All Access Objects' pane on the left lists 'Tables' (Books, Supplier) and 'Queries' (Books Query, Contains Ment, Cost Lees Than 10 Dollar, Product Cost, Show SC supplier, Show supplier (Parameter)). The main workspace displays the 'Query1' design grid. A red box highlights the 'SellPrice' field in the 'Criteria' row, with the value '>=20' entered. The 'Show' column has checkboxes for 'Book Id', 'Book Title', and 'SellPrice'.

Field:	Book Id	Book Title	SellPrice		
Table:	Books	Books	Books		
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:			>=20		
or:					

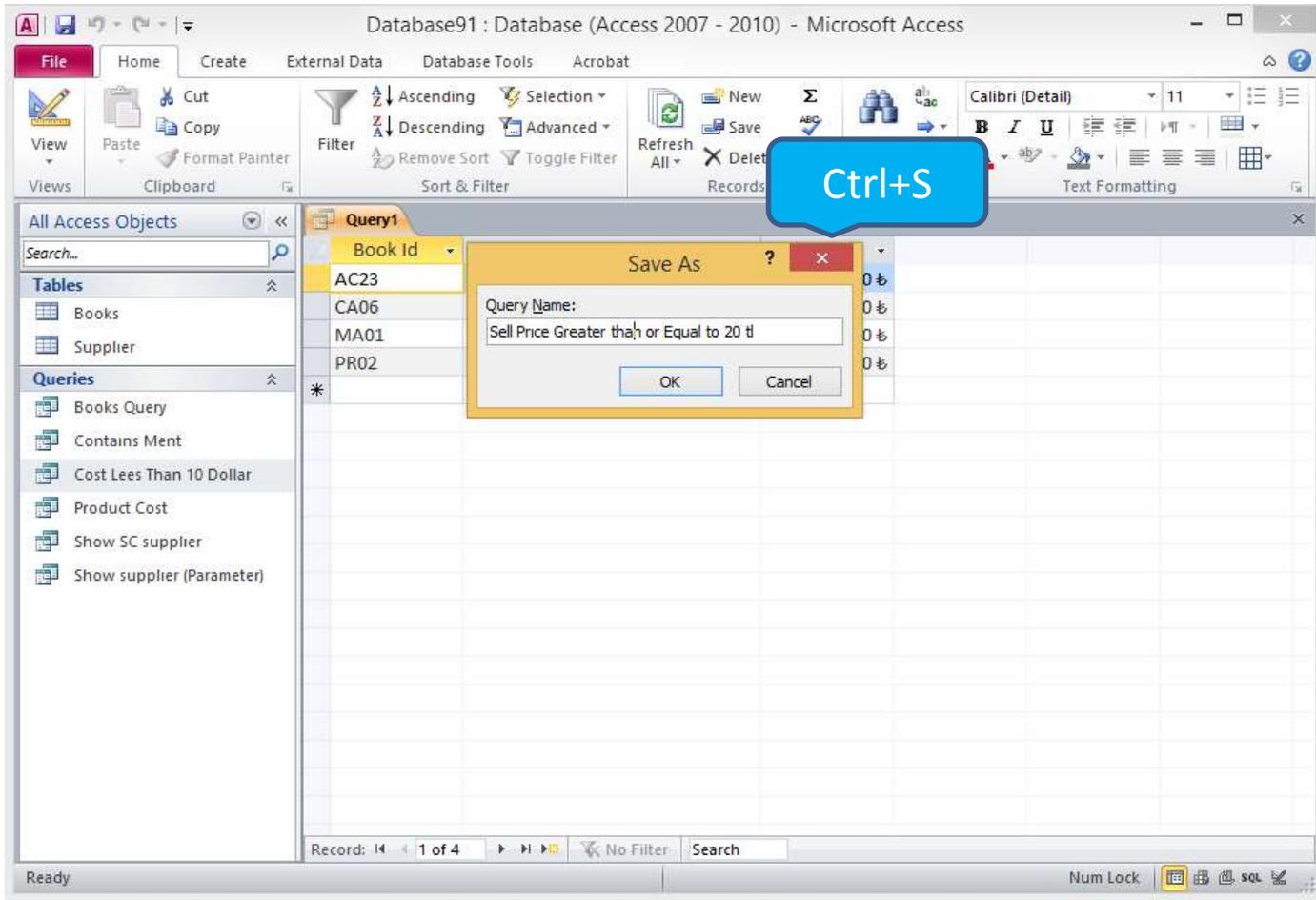
Greater Than ...

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options for filtering, sorting, and finding records. The 'All Access Objects' pane on the left shows a list of tables and queries. The main window displays a query named 'Query1' with the following data:

Book Id	Book Title	SellPrice
AC23	Accounting	50,00 ₺
CA06	Calculus	27,00 ₺
MA01	Management Information System	33,00 ₺
PR02	Probability Model	23,00 ₺

A red rectangular box highlights the 'SellPrice' column and its values. The status bar at the bottom indicates 'Record: 1 of 4' and 'No Filter'.

Greater Than ...



AND

The screenshot shows the Microsoft Access Query Design view for a query named 'Query1'. The design grid is as follows:

Field:	Book Id	Book Title	OnHand	Cost	SellPrice	Supplier Code
Table:	Books	Books	Books	Books	Books	Books
Sort:						
Show:	<input checked="" type="checkbox"/>					
Criteria:			>= 10		< 15	
or:						

AND

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options for 'Filter', 'Sort & Filter', 'Records', 'Find', and 'Text Formatting'. The 'All Access Objects' pane on the left shows 'Tables' (Books, Supplier) and 'Queries' (Books Query, Contains Ment, Cost Lees Than 10 Dollar, Product Cost, Sell Price Greater than or E..., Show SC supplier, Show supplier (Parameter)). The main window displays a query named 'Query1' in Datasheet view. The table has columns: Book Id, Book Title, OnHand, Cost, SellPrice, and Supplier Co. A single record is visible, highlighted in blue, with a red box around it. The record is: OR14, Operation Research, 10, 4,00 €, 8,00 €, SC. The status bar at the bottom indicates 'Record: 1 of 1' and 'No Filter'.

Book Id	Book Title	OnHand	Cost	SellPrice	Supplier Co
OR14	Operation Research	10	4,00 €	8,00 €	SC

AND

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The main window displays a query grid with the following data:

Book Id	Book Title	OnHand	Cost	SellPrice	Supplier Co
OR14	Opera	*	4,00 €	8,00 €	SC

A 'Save As' dialog box is open, showing the 'Query Name' field with the text 'SP <15 AND OH >=10'. A blue callout bubble with the text 'Ctrl+S' is positioned above the dialog box. The status bar at the bottom indicates 'Record: 1 of 1' and 'No Filter'.

OR

The screenshot shows the Microsoft Access Query Design view for a query named 'Query1'. The design grid is as follows:

Field:	Book Id	Book Title	OnHand	Cost	SellPrice	Supplier Code
Table:	Books	Books	Books	Books	Books	Books
Sort:						
Show:	<input checked="" type="checkbox"/>					
Criteria:						*SC*
or:						*BH*

The 'Criteria' row for the 'Supplier Code' field is highlighted with a red box, showing the text '*SC*' and '*BH*' in separate rows, indicating an OR condition.

OR

The screenshot shows the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Query1' table is displayed with the following data:

Book Id	Book Title	OnHand	Cost	SellPrice	Supplier Co
AC23	Accounting	3	27,00 €	50,00 €	SC
DE09	Design of Expriment	8	7,00 €	13,00 €	BH
MA01	Management Information System	3	15,50 €	33,00 €	BH
OR14	Operation Research	10	4,00 €	8,00 €	SC
PR02	Probability Model	12	12,00 €	23,00 €	BH
*					

The 'Supplier Co' column is highlighted with a red box. The status bar at the bottom indicates 'Record: 14', '1 of 5', 'No Filter', and 'Search'. The system tray shows 'Ready' and 'Num Lock'.

OR

The screenshot shows the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options like 'Filter', 'Sort & Filter', 'Records', and 'Text Formatting'. A blue callout bubble with the text 'Ctrl+S' is positioned over the 'Records' group. In the center, a 'Save As' dialog box is open, with the 'Query Name' field containing 'Supplier SC OR BH'. The background shows a table with columns: Book Id, Book Title, OnHand, Cost, SellPrice, and Supplier Co. The table contains five rows of data.

Book Id	Book Title	OnHand	Cost	SellPrice	Supplier Co
AC23	Account		27,00 ₺	50,00 ₺	SC
DE09	Design		7,00 ₺	13,00 ₺	BH
MA01	Manag		15,50 ₺	33,00 ₺	BH
OR14	Opera		4,00 ₺	8,00 ₺	SC
PR02	Probab		12,00 ₺	23,00 ₺	BH

Calculation

The screenshot shows the Microsoft Access Query Design view for a query named 'Query1'. The design grid is as follows:

Field:	Book Id	Book Title				
Table:	Books	Books				
Sort:						
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:						
or:						

The 'Book Title' field in the 'Field' row is highlighted with a red box. The 'Table' row shows 'Books' for both fields. The 'Show' row has checkboxes for both fields. The 'Criteria' row is empty. The 'or' row is also empty. The 'Field' row shows 'Book Id' and 'Book Title' with a dropdown arrow next to the second field. The 'Table' row shows 'Books' for both fields.

Calculation

The screenshot shows the Microsoft Access interface with the 'Query Tools' ribbon active. A 'Zoom' dialog box is open, centered over the query design grid. The dialog box has a title bar 'Zoom' and two buttons: 'OK' and 'Cancel'. A blue callout bubble with a white border points to the dialog box, containing the text 'Right Click Zoom'. The query design grid below shows the following data:

Field:	Book Id	Book Title			
Table:	Books	Books			
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:					
or:					

The 'All Access Objects' pane on the left shows the following queries:

- Books Query
- Contains Ment
- Cost Lees Than 10 Dollar
- Product Cost
- Sell Price Greater than or E...
- Show SC supplier
- Show supplier (Parameter)
- SP < 15 AND OH > = 10
- Supplier SC OR BH

Calculation

The screenshot displays the Microsoft Access interface. A Zoom dialog box is open, showing the formula: `[Inventory Value: [Cost]*[OnHand]]`. The background shows the Query Design view for a query named 'Product Cost'. The 'All Access Objects' pane on the left lists 'Tables' (Books, Supplier) and 'Queries' (Books Query, Contains Ment, Cost Lees Than 10 Dollar, Product Cost, Sell Price Greater than or E..., Show SC supplier, Show supplier (Parameter), SP < 15 AND OH > =10, Supplier SC OR BH). The main area shows the design grid for the 'Product Cost' query.

Field:	Book Id	Book Title			
Table:	Books	Books			
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:					
or:					

Calculation

The screenshot shows the Microsoft Access interface in Design view for a query named 'Query1'. The ribbon includes 'Query Tools' with sections for 'Design', 'Query Setup', and 'Show/Hide'. The 'Design' section contains options like 'Insert Rows', 'Delete Rows', 'Builder', 'Insert Columns', 'Delete Columns', and 'Return: All'. The 'Query Setup' section has 'Totals' and 'Parameters'. The 'Show/Hide' section has 'Property Sheet' and 'Table Names'. The 'All Access Objects' pane on the left shows 'Tables' (Books, Supplier) and 'Queries' (Books Query, Contains Ment, Cost Lees Than 10 Dollar, Product Cost, Sell Price Greater than or E..., Show SC supplier, Show supplier (Parameter), SP < 15 AND OH > = 10, Supplier SC OR BH). The main design grid shows the 'Books' table with fields 'Book Id', 'Book Title', 'OnHand', 'Cost', 'SellPrice', and 'Supplier Code'. A calculated field 'Inventory Value: [Cost]*[OnHand]' is added to the grid, highlighted with a red box. The status bar at the bottom shows 'Ready' and 'Num Lock'.

Field:	Book Id	Book Title	Inventory Value: [Cost]*[OnHand]		
Table:	Books	Books			
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:					
or:					

Calculation

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options for 'Filter', 'Sort & Filter', 'Records', and 'Find'. The 'Text Formatting' group is also visible. The 'All Access Objects' pane on the left shows 'Tables' (Books, Supplier) and 'Queries' (Books Query, Contains Ment, Cost Lees Than 10 Dollar, Product Cost, Sell Price Greater than or E..., Show SC supplier, Show supplier (Parameter), SP <15 AND OH >=10, Supplier SC OR BH). The main window displays a query named 'Query1' with the following data:

Book Id	Book Title	Inventory V
AC23	Accounting	81,00 €
CA06	Calculus	70,00 €
DE09	Design of Expriment	56,00 €
EC34	Economics	31,50 €
FI05	Financial Market	26,00 €
MA01	Managment Information System	46,50 €
OR14	Operation Research	40,00 €
PR02	Probability Model	144,00 €
*		

The 'Inventory V' column is highlighted with a red box. The status bar at the bottom indicates 'Record: 14', '1 of 8', 'No Filter', and 'Search'. The system tray shows 'Num Lock' and 'SQL' icons.

Calculation

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options like 'Filter', 'Sort & Filter', 'Records', and 'Text Formatting'. A 'Save As' dialog box is open, prompting for a 'Query Name' with 'Inventory Value' entered. A blue callout bubble with the text 'Ctrl+S' is overlaid on the dialog box. The background shows a table with columns 'Book Id', 'Book Title', and 'Inventory Value'. The status bar at the bottom indicates 'Record: 1 of 8' and 'No Filter'.

Book Id	Book Title	Inventory Value
AC23	Accounting	
CA06	Calculus	
DE09	Design	
EC34	Economics	
FI05	Finance	
MA01	Management	
OR14	Operation Research	40,00 ₺
PR02	Probability Model	144,00 ₺
*		

Calculation

The screenshot shows the Microsoft Access interface in Design view for a query named 'Query1'. The ribbon includes 'Query Tools' with options like 'Insert Rows', 'Delete Rows', 'Insert Columns', and 'Delete Columns'. The 'All Access Objects' pane on the left shows a list of tables and queries. The 'Books' table is selected, and its fields are listed in a box: Book Id, Book Title, OnHand, Cost, SellPrice, and Supplier Code. The design grid below shows the following configuration:

Field:	Book Id	Book Title				
Table:	Books	Books				
Sort:						
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:						
or:						

The 'Book Id' and 'Book Title' cells in the design grid are highlighted with a red box.

Calculation

The screenshot displays the Microsoft Access interface for a query named 'Query1'. The 'Design' view is active, showing a grid of fields from the 'Books' table. A 'Zoom' dialog box is open over the 'Gross Profit' field, which contains the calculation formula: $Gross\ Profit: [SellPrice] - [Cost]$. The dialog box has 'OK', 'Cancel', and 'Font...' buttons.

The 'Query1' design grid is as follows:

Field:	Book Id	Book Title				
Table:	Books	Books				
Sort:						
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:						
or:						

Calculation

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options for 'Filter', 'Sort & Filter', 'Records', and 'Find'. The 'All Access Objects' pane on the left shows 'Tables' (Books, Supplier) and 'Queries' (Books Query, Contains Ment, Cost Lees Than 10 Dollar, Inventory Value, Product Cost, Sell Price Greater than or E..., Show SC supplier, Show supplier (Parameter), SP < 15 AND OH >= 10, Supplier SC OR BH). The main window displays a query named 'Query1' with the following data:

Book Id	Book Title	Gross Profit
AC23	Accounting	23,00 €
CA06	Calculus	13,00 €
DE09	Design of Expriment	6,00 €
EC34	Economics	4,50 €
FI05	Financial Market	5,50 €
MA01	Managment Information System	17,50 €
OR14	Operation Research	4,00 €
PR02	Probability Model	11,00 €
*		

The 'Gross Profit' column is highlighted with a red box. The status bar at the bottom indicates 'Record: 14 of 1 of 8' and 'No Filter: Search'. The system tray shows 'Num Lock' and 'SQL' icons.

Calculation

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The ribbon is set to 'Database Tools', and the 'Records' group is active. A 'Save As' dialog box is open, prompting for a 'Query Name' with 'Gross Profit' entered. A blue callout bubble with the text 'Ctrl+S' is positioned over the ribbon. The background shows a table with columns 'Book Id', 'Book Title', and 'Gross Profit'.

Book Id	Book Title	Gross Profit
AC23	Accounting	
CA06	Calculus	
DE09	Design	
EC34	Economics	
FI05	Finance	
MA01	Management	
OR14	Operation Research	4,00 €
PR02	Probability Model	11,00 €
*		

Average

The screenshot shows the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010) - Mi...'. The 'Query Tools' ribbon is active, showing the 'Design' view. The 'All Access Objects' pane on the left lists 'Tables' (Books, Supplier) and 'Queries' (Books Query, Contains Ment, Cost Lees Than 10 Dollar, Gross Profit, Inventory Value, Product Cost, Sell Price Greater than or E..., Show SC supplier, Show supplier (Parameter), SP <15 AND OH >=10, Supplier SC OR BH). The 'Query1' design grid is shown in the center, with a red box highlighting the 'SellPrice' field in the 'Field' column. The 'Table' column contains 'Books', and the 'Total' column contains 'Group By'. The 'Sort' column has a dropdown arrow, and the 'Show' column has a checked checkbox. The 'Criteria' and 'or' columns are empty.

Field	Table	Total	Sort	Show	Criteria	or
SellPrice	Books	Group By		<input checked="" type="checkbox"/>		
				<input type="checkbox"/>		
				<input type="checkbox"/>		
				<input type="checkbox"/>		
				<input type="checkbox"/>		

Average

The screenshot shows the Microsoft Access Query Design view for a query named 'Query1'. The 'Books' table is selected, and the 'Totals' row is configured to calculate the average of the 'SellPrice' field. The 'Totals' row is highlighted with a red box, and the 'Avg' function is selected in the 'Total' dropdown menu. The 'Show' checkbox is checked for the 'SellPrice' field.

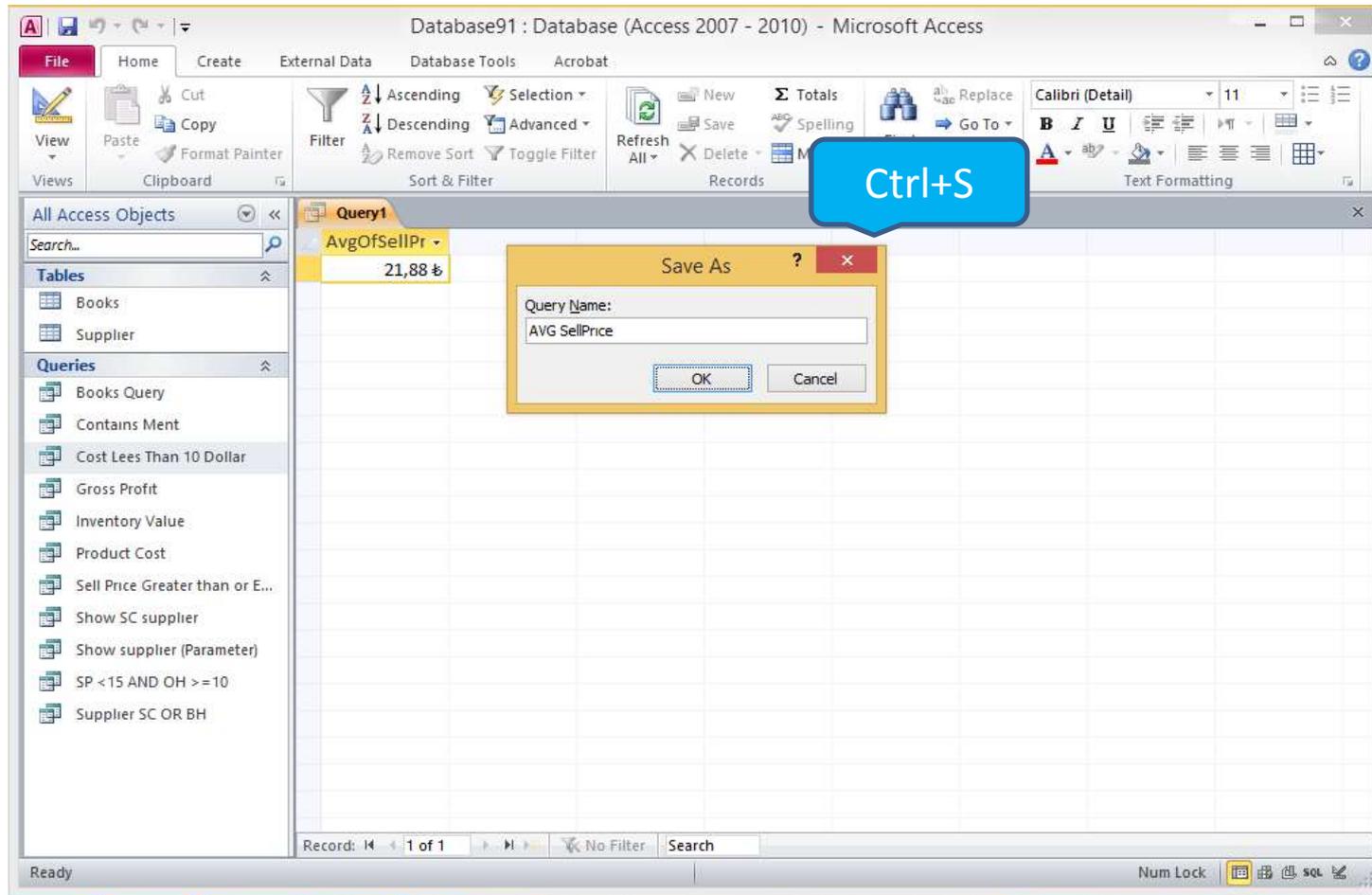
Field:	SellPrice				
Table:	Books				
Total:	Avg				
Sort:					
Show:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:					
or:					

Average

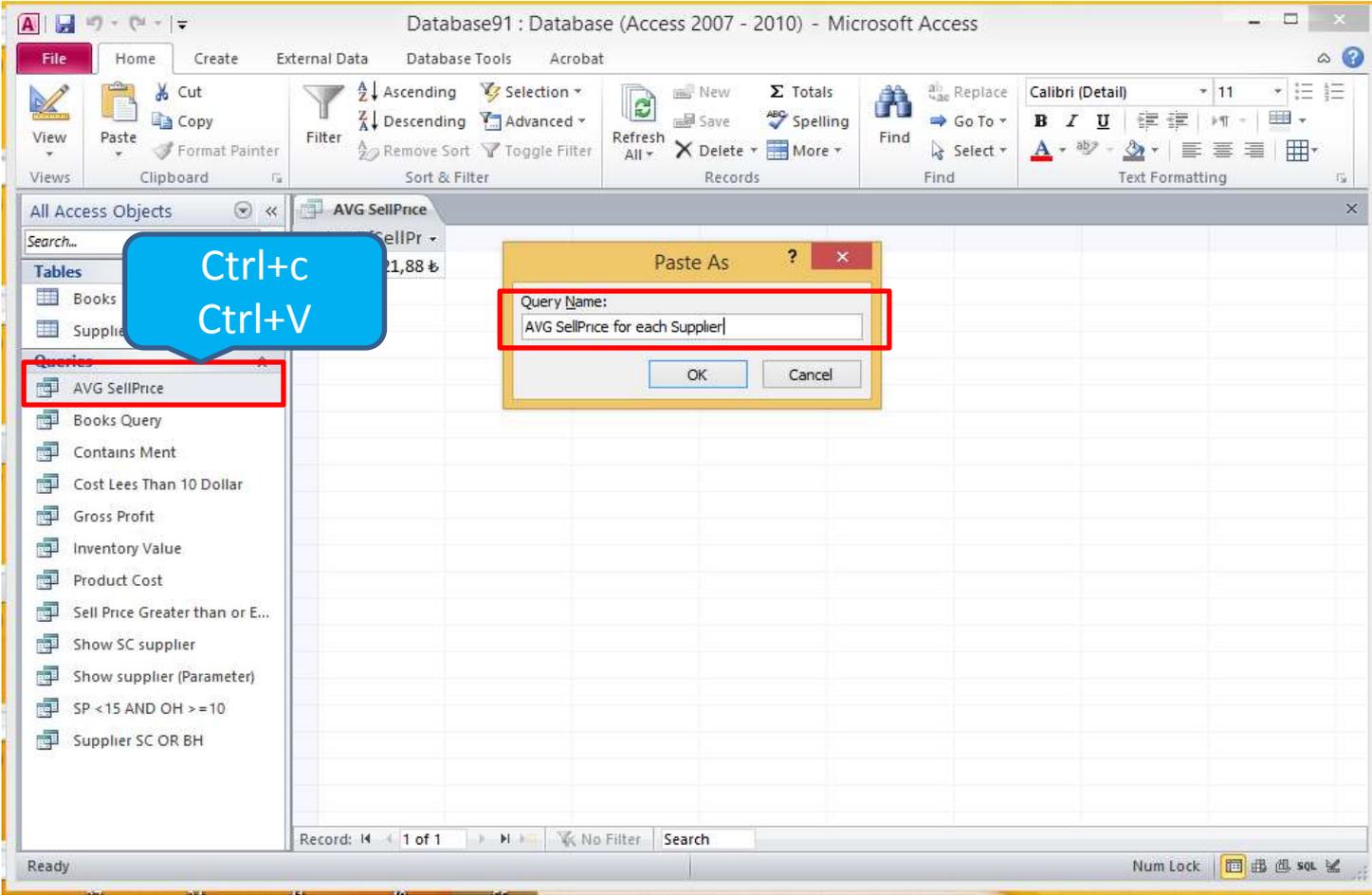
The screenshot displays the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options for 'Filter', 'Sort & Filter', 'Records', and 'Find'. The 'All Access Objects' pane on the left shows a list of 'Queries', with 'AvgOfSellPr' selected. The main window displays a single record in a table view for 'Query1', with the value '21,88' highlighted in a red box. The status bar at the bottom indicates 'Record: 1 of 1' and 'No Filter'.

Query1
AvgOfSellPr
21,88

Average



Group Average



Group Average

The screenshot shows the Microsoft Access interface in Design View for a query named "AVG SellPrice for each Supplier". The ribbon includes "Query Tools" with tabs for "Design" and "Query Setup". The "Design" tab is active, showing options like "Insert Rows", "Delete Rows", "Insert Columns", and "Delete Columns". The "Query Setup" section shows "Return: All".

The "All Access Objects" pane on the left shows a list of tables and queries. The "Tables" list includes "Books" and "Supplier". The "Queries" list includes "AVG SellPrice", "AVG SellPrice for each Sup...", "Books Query", "Contains Ment", "Cost Lees Than 10 Dollar", "Gross Profit", "Inventory Value", "Product Cost", "Sell Price Greater than or E...", "Show SC supplier", "Show supplier (Parameter)", "SP < 15 AND OH > = 10", and "Supplier SC OR BH".

The main workspace shows the "Books" table selected. The field list for "Books" includes "Book Id", "Book Title", "OnHand", "Cost", "SellPrice", and "Supplier Code".

The design grid below shows the following configuration:

Field:	SellPrice	Supplier Code				
Table:	Books	Books				
Total:	Avg	Group By				
Sort:						
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:						
or:						

The "Group By" text in the design grid is highlighted with a red box.

The status bar at the bottom shows "Form View" and "Num Lock".

Group Average

The screenshot shows the Microsoft Access interface for a database named 'Database91: Database (Access 2007 - 2010)'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options like 'Query Wizard', 'Form Wizard', and 'Report Wizard'. The 'All Access Objects' pane on the left shows a list of queries, with 'AVG SellPrice for each Supplier' selected. The main window displays a data table with the following content:

AvgOfSellPr	Supplier Co
16,00	AP
23,00	BH
37,28	SC

The table is highlighted with a red border. The status bar at the bottom indicates 'Record: 1 of 3' and 'No Filter'.

Average by Parameter

The screenshot shows the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options for 'Filter', 'Sort & Filter', 'Records', and 'Find'. The 'All Access Objects' pane on the left shows a list of tables and queries. The 'Queries' list includes 'AVG SellPrice for each Sup...', which is highlighted with a red box. A blue callout bubble with the text 'Ctrl+c' and 'Ctrl+v' is positioned over the 'Paste' button in the ribbon. A 'Paste As' dialog box is open, showing the 'Query Name' field with the text 'AVG SellPrice for each Supplier (Parameter)'. The dialog box has 'OK' and 'Cancel' buttons. The main window displays a grid with columns 'AvgOfSellPr' and 'Supplier Co...' and rows of data. The status bar at the bottom indicates 'Record: 1 of 3' and 'No Filter'.

Ctrl+c
Ctrl+v

Paste As

Query Name:
AVG SellPrice for each Supplier (Parameter)

OK Cancel

Record: 1 of 3 No Filter Search

Datasheet View Num Lock

Average by Parameter

The screenshot displays the Microsoft Access interface for a query named "AVG SellPrice for each Supplier (Parameter)". The design grid is as follows:

Field:	SellPrice	Supplier Code			
Table:	Books	Books			
Total:	Avg	Group By			
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:		[Enter Supplier Code]			
or:					

The criteria "[Enter Supplier Code]" is highlighted with a red box, indicating that the query will calculate the average sell price for each supplier based on the user's input.

Average by Parameter

The screenshot displays the Microsoft Access interface. The ribbon is set to 'Query Tools' > 'Design'. The 'Run' button in the 'Results' group is highlighted with a red box. A dialog box titled 'Enter Parameter Value' is open, with a text box containing 'SC' and 'Supplier Code' below it. The dialog box is also highlighted with a red box. The query design grid is visible, showing the following structure:

Field:	SellPrice	Supplier Code			
Table:	Books	Books			
Total:	Avg	Group By			
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:		[Enter Supplier Code]			
or:					

Average by Parameter

The screenshot displays the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Database Tools' ribbon is active, showing options for 'Sort & Filter', 'Records', and 'Find'. The 'All Access Objects' pane on the left lists 'Tables' (Books, Supplier) and 'Queries' (AVG SellPrice, AVG SellPrice for each Supplier, AVG SellPrice for each Supplier (Parameter), Books Query, Contains Ment, Cost Lees Than 10 Dollar, Gross Profit, Inventory Value, Product Cost, Sell Price Greater than or Equal to 20 tl, Show SC supplier, Show supplier (Parameter), SP < 15 AND OH >= 10, Supplier SC OR BH). The main window shows the 'AVG SellPrice for each Supplier (Parameter)' query in Datasheet View. The data is as follows:

AvgOfSellPr	Supplier Co
29,00	SC

The status bar at the bottom indicates 'Record: 1 of 1', 'No Filter', and 'Search'. The 'Num Lock' indicator is also visible.

Between

The screenshot shows the Microsoft Access interface in Design view for a query named 'Query1'. The ribbon includes 'Query Tools' with sub-tabs for 'Design' and 'Query Setup'. The 'Design' tab is active, showing options like 'Insert Rows', 'Delete Rows', 'Insert Columns', and 'Delete Columns'. The 'Query Setup' tab shows 'Return: All'. The 'Query Design' grid is visible at the bottom, with a red box highlighting the 'Book Id', 'Book Title', and 'SellPrice' fields. Another red box highlights the criteria 'Between 15 And 25' for the 'SellPrice' field.

Books

- Book Id
- Book Title
- OnHand
- Cost
- SellPrice
- Supplier Code

Field:	Book Id	Book Title	SellPrice		
Table:	Books	Books	Books		
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:			Between 15 And 25		
or:					

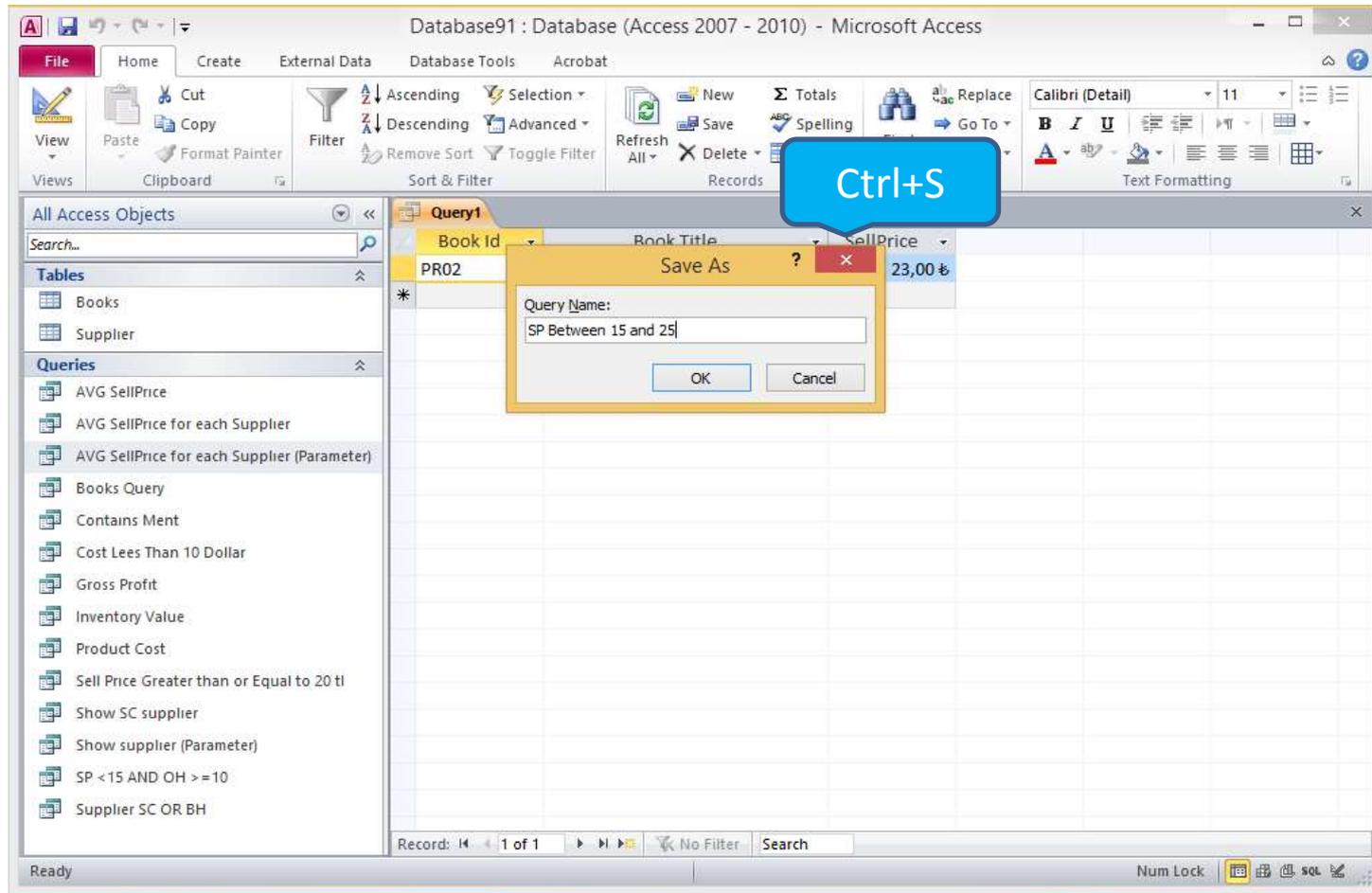
Between

The screenshot shows the Microsoft Access interface for a database named 'Database91'. The ribbon includes 'File', 'Home', 'Create', 'External Data', 'Database Tools', and 'Acrobat'. The 'Home' ribbon is active, showing options for 'View', 'Clipboard', 'Sort & Filter', 'Records', and 'Find'. The 'All Access Objects' pane on the left shows a list of tables and queries. The 'Query1' window displays a table with the following data:

Book Id	Book Title	SellPrice
PR02	Probability Model	23,00

The value '23,00' in the 'SellPrice' column is highlighted with a red box. The status bar at the bottom indicates 'Record: 1 of 1' and 'No Filter'.

Between



Relationship Query

The screenshot displays the Microsoft Access interface for a database named "Database91 : Database (Access 2007 - 2010) - Mi...". The "Query Tools" ribbon is active, showing the "Design" tab. The "Query Type" section includes options like "View", "Run", "Select", "Make Table", "Append Update", "Crosstab", and "Delete". The "Query Setup" section includes "Insert Rows", "Delete Rows", "Builder", and "Return: All". The "Show/Hide" section includes "Totals", "Parameters", "Property Sheet", and "Table Names".

The "All Access Objects" pane on the left shows a list of tables and queries. The "Tables" section includes "Books" and "Supplier". The "Queries" section includes "AVG SellPrice", "AVG SellPrice for each Supplier", "AVG SellPrice for each Supplier (Para...", "Books Query", "Contains Ment", "Cost Lees Than 10 Dollar", "Gross Profit", "Inventory Value", "Product Cost", "Sell Price Greater than or Equal to 20 tl", "Show SC supplier", "Show supplier (Parameter)", "SP < 15 AND OH >= 10", "SP Between 15 and 25", and "Supplier SC OR BH".

The main workspace shows a relationship diagram for "Query1". It features two tables: "Books" and "Supplier". The "Books" table has fields: "Book Id", "Book Title", "OnHand", "Cost", "SellPrice", and "Supplier Code". The "Supplier" table has fields: "Supplier Code", "Name", and "Telephone". A relationship line connects the "Supplier Code" field in the "Books" table to the "Supplier Code" field in the "Supplier" table. The relationship is one-to-many, indicated by a "1" at the "Supplier" end and an "8" at the "Books" end.

The bottom pane shows a grid for defining the query's fields, table, sort order, and criteria. The grid is currently empty.

The status bar at the bottom indicates "Ready" and "Num Lock".

Relationship Query

The screenshot shows the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The 'Query Tools' ribbon is active, showing the 'Design' view. The 'All Access Objects' pane on the left lists 'Tables' (Books, Supplier) and 'Queries' (AVG SellPrice, AVG SellPrice for each Sup..., AVG SellPrice for each Sup..., Books Query, Contains Ment, Cost Lees Than 10 Dollar, Gross Profit, Inventory Value, Product Cost, Sell Price Greater than or E..., Show SC supplier, Show supplier (Parameter), SP < 15 AND OH >= 10, SP Between 15 and 25, Supplier SC OR BH). The main workspace shows a relationship diagram with 'Books' and 'Supplier' tables. The 'Books' table has fields: Book Id, Book Title, OnHand, Cost, SellPrice, and Supplier Code. The 'Supplier' table has fields: Supplier Code, Name, and Telephone. A one-to-many relationship is shown between 'Supplier Code' in the 'Supplier' table and 'Supplier Code' in the 'Books' table. Below the diagram is a query grid with a red border. The grid contains the following data:

Field:	Supplier Code	Name	Telephone	Book Id	Book Title	Cost	OnHand
Table:	Supplier	Supplier	Supplier	Books	Books	Books	Books
Sort:							
Show:	<input checked="" type="checkbox"/>						
Criteria:							
or:							

Relationship Query

Database91 : Database (Access 2007 - 2010) - Microsoft Access

File Home Create External Data Database Tools Acrobat

View Paste Copy Cut Copy Format Painter Filter Sort & Filter Records Find Text Formatting

All Access Objects

Search...

Tables

- Books
- Supplier

Queries

- AVG SellPrice
- AVG SellPrice for each Sup...
- AVG SellPrice for each Sup...
- Books Query
- Contains Ment
- Cost Lees Than 10 Dollar
- Gross Profit
- Inventory Value
- Product Cost
- Sell Price Greater than or E...
- Show SC supplier
- Show supplier (Parameter)
- SP < 15 AND OH > = 10
- SP Between 15 and 25
- Supplier SC OR BH

Supplier Code	Name	Telephone	Book Id	Book Title	Cost	OnHand
AP	Antonio patino	6451712	CA06	Calculus	14,00 €	5
AP	Antonio patino	6451712	EC34	Economics	4,50 €	7
AP	Antonio patino	6451712	FI05	Financial Market	6,50 €	4
BH	Bert Huntington	6551222	DE09	Design of Exprimt	7,00 €	8
BH	Bert Huntington	6551222	MA01	Managment Information System	15,50 €	3
BH	Bert Huntington	6551222	PR02	Probability Model	12,00 €	12
SC	Sue Chin	6351542	AC23	Accounting	27,00 €	3
SC	Sue Chin	6351542	OR14	Operation Research	4,00 €	10
*						

Record: 14 1 of 8 No Filter Search

Ready Num Lock SQL

Relationship Query

The screenshot displays the Microsoft Access interface for a database named 'Database91'. The 'Query Tools' ribbon is active, showing the 'Design' view. The 'All Access Objects' pane on the left lists 'Tables' (Books, Supplier) and 'Queries' (AVG SellPrice, Books Query, etc.). The main workspace shows a relationship diagram with 'Books' and 'Supplier' tables connected by a line. The 'Books' table has fields: Book Id (primary key), Book Title, OnHand, Cost, SellPrice, and Supplier Code. The 'Supplier' table has fields: Supplier Code (primary key), Name, and Telephone. Below the diagram is a query grid for 'Query1' with the following data:

Field:	Supplier Code	Name	Telephone	Book Id	Book Title	Cost	OnHand
Table:	Supplier	Supplier	Supplier	Books	Books	Books	Books
Show:	<input checked="" type="checkbox"/>						
Criteria:							<5
or:							

Relationship Query

The screenshot displays the Microsoft Access interface for a database named 'Database91'. The main window shows a table view of a query named 'Query1'. The table has the following columns: Supplier Cor, Name, Telephone, Book Id, Book Title, Cost, and OnHand. The data is as follows:

Supplier Cor	Name	Telephone	Book Id	Book Title	Cost	OnHand
SC	Sue Chin	6351542	AC23	Accounting	27,00 €	3
AP	Antonio patino	6451712	FI05	Financial Market	6,50 €	4
BH	Bert Huntington	6551222	MA01	Managment Information System	15,50 €	3

The 'OnHand' column values (3, 4, 3) are highlighted with a red box in the original image. The status bar at the bottom indicates 'Record: 1 of 3' and 'No Filter'.

Relationship Query

Database91 : Database (Access 2007 - 2010) - Microsoft Access

File Home Create External Data Database Tools Acrobat

View Paste Copy Format Painter Filter Sort & Filter Records Text Formatting

Ctrl+S

Supplier Code	Name	Telephone	Book Id	Book Title	Cost	OnHand
SC	Sue Chin				27,00 €	3
AP	Antonio patino			arket	6,50 €	4
BH	Bert Huntingto			Information System	15,50 €	3
*						

Save As ? x

Query Name:
Reorder Phone List

OK Cancel

Record: 1 of 3 No Filter Search

Ready Num Lock SQL

Update

The screenshot shows the Microsoft Access interface with the 'Query Design' view for a query named 'Query1'. The design grid is as follows:

Field:	Book Id	Book Title	SellPrice				
Table:	Books	Books	Books				
Sort:							
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:	[Enter Book ID]						
or:							

The 'Criteria' row for 'Book Id' is highlighted with a red box. The 'Show' row has checkboxes for 'Book Title' and 'SellPrice'.

Update

The screenshot shows the Microsoft Access interface for a database named 'Database91 : Database (Access 2007 - 2010)'. The 'Query Tools' ribbon is active, and the 'Update' query type is selected. The 'Run' button in the 'Results' group is highlighted with a red box. An 'Enter Parameter Value' dialog box is open, prompting for 'Enter Book ID', with the value 'AC23' entered in the text box, also highlighted with a red box. The dialog box has 'OK' and 'Cancel' buttons.

The 'All Access Objects' pane on the left shows the following queries:

- AVG SellPrice
- AVG SellPrice for each Sup...
- AVG SellPrice for each Sup...
- Books Query
- Contains Ment
- Cost Lees Than 10 Dollar
- Gross Profit
- Inventory Value
- Product Cost
- Reorder Phone List
- Sell Price Greater than or E...
- Show SC supplier
- Show supplier (Parameter)
- SP < 15 AND OH > = 10
- SP Between 15 and 25
- Supplier SC OR BH

The 'Query1' window displays the 'Books' table with the following fields:

- Book Id
- Book Title
- OnHand
- Cost
- SellPrice
- Supplier Code

The 'Criteria' section of the query design grid is as follows:

Field:	Table:	Update To:	Criteria:
Book Id	Books	Books	[Enter Book ID]
SellPrice	Books	[sellprice]*1,1	

Update

The screenshot displays the Microsoft Access interface for a database named 'Database91'. The 'Query Tools' ribbon is active, showing the 'Update' query type. A 'Save As' dialog box is open, with the 'Query Name' field containing 'Update Sellprice'. A blue callout bubble with the text 'Ctrl+S' is overlaid on the dialog. The design grid below the dialog shows the following structure:

Field:	Book Id	Book Title	SellPrice				
Table:	Books	Books	Books				
Update To:			[sellprice]*1,1				
Criteria:	[Enter Book ID]						
or:							

The status bar at the bottom indicates 'Ready' and 'Num Lock' is on.

Update

The screenshot shows the Microsoft Access interface with the 'Table Tools' ribbon active. The 'Books' table is displayed in Datasheet View. A red rectangular box highlights the first row of data, which contains the following information:

Book Id	Book Title	OnHand	Cost	SellPrice	Supplier Coi	Click to Add
AC23	Accounting	3	50,00 ₺	66,55 ₺	SC	
CA06	Calculus	5	14,00 ₺	27,00 ₺	AP	
DE09	Design of Exprimt	8	7,00 ₺	13,00 ₺	BH	
EC34	Economics	7	4,50 ₺	9,00 ₺	AP	
FI05	Financial Market	4	6,50 ₺	12,00 ₺	AP	
MA01	Managment Information System	3	15,50 ₺	33,00 ₺	BH	
OR14	Operation Research	10	4,00 ₺	8,00 ₺	SC	
PR02	Probability Model	12	12,00 ₺	23,00 ₺	BH	
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The status bar at the bottom indicates 'Record: 1 of 8' and 'No Filter'.