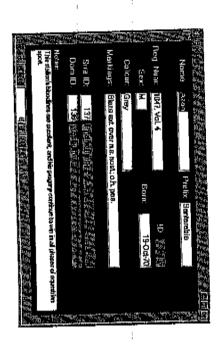
#### The Lyen Diven Model

Figure 13.2.
The name of the sire and dam are displayed by binding text boxes to a DLookup() expression.



This technique is quite simple when the ID field is a number, but when the field is text, Access requires that it be enclosed in quotation marks. Say, for example, you need to look up the CategoryName field in thlCat where the CategoryID is c. The simplest method of providing the quotes is to use single quotes inside the double quotes:

=DLookup("CategoryName", "tblCat", 'Category = 'C'")

Again, to use this expression in a form, you need the current value of the CategoryID field in the form, rather than 0 for every record. Remember to include the closing single quote mark.

=DLookup("CategoryName', "tbICat', "Category = '" & [Category] & "'')

Using this technique, it is possible to retrieve values from several fields at once. For example, you could look up both the "Writer" and "SongTitle" from thlSongs, with the following:

=DLookup("[Writer] & ', ' & [SongTitle]", 'thiSongs", -- "SongID = '' & [SongID] & ''")

► "SongID = " & IsongID] & J

If the field you are looking up might contain an apostrophe, such as the name D'Sylva, avoid using the single quotes technique. Although it looks quite clumsy, you can generate a quotation mark within quotation marks by doubling them up. Using this technique, the last example becomes

=DLookup("[Writer] & \*\*, \*\* & [SongTitle]', "tblSongs', -- "SongID = \*"" & [SongID] & "\*")

-"SongID = "" & [SongID] & """)

Access provides an Expression Builder that can help in building simple or complex expressions.

Access provides an Expression Builder that can help in building simple or complex expressions, is

In the Properties window, beside controlSource where you are entering these expressions, is
an ellipsis button. Clicking this button invokes the Expression Builder. The builder can reduce typing, prevent spelling errors, and provide clues on functions such as Dlookup(). However, you still need to understand what you are aiming for in order to build a valid expression.

# ssential Example

Se Bayer, Miller

For this example, create a form to be used as a dialog box to request information. The form will request limiting dates to be used in a report. Both the report isself and the query it is based on will refer to these dates. The form will be used for other reports in the following chapters as well.

Create a new unbound form, and add two textboxes. In the Properties window, change their names to StartDate and EndDate. Because they are unbound, the ControlSource for both is blank. Set the Format property for both to Short Date, indicating the kind of contents you expect. Type appropriate labels such as From: and To:, and save the form as from thichapt.

Next, create a query to select only those clients who is included you within the coasts.

Next, create a query to select only those clients who joined you within the specified date range. Create the query based on table thil Clients, and add the fields Company, Surname, FirstName, Phone, Fax, and Entered. Sort on Company. In the Criteria row for Entered, you need to refer to the dates in the form to limit the values in the query. Enter the following:

Between Forms![frowhhichRpt]![StartDate] and Forms![fromWhichRpt]![EndDate]

Now open the form, and enter some dates. Be sure to tab away from the second control after entering a date; the entry is not complete until the focus leaves the control. Test the query. If your object reference is incorrect, the query might complain, ask for an unexpected parameter, or simply contain no records. Save the query with the name qry611entsBy60mpany.

With the form still open, create a new report based on this query, using a simple tabular layout. The new report lacks meaning unless its header explains that it is a listing of clients who joined in a specific period. To do this, you again need to refer to the dates in the form.

With the report in Design view, add two text boxes to the Report Header. Give them names such as StartDate and EndDate, and alter their labels to from and to. Set the ControlSource for the first to

हि Forms![frmWhichRpt]![StartDate]

and for the second to

Forms: [frmWhichRpt]! {EndDate]

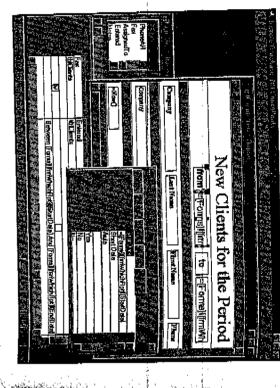
Now change the main label in the Report Header from qryClientsByCompany to New Clients For The Period, and arrange the textboxes side by side below this label, as shown in Figure 13.3. Save the report with a name such as rptClientsNew. The report is now ready for use (provided the form is open, of course). In following chapters, you will explore a method of opening the report using a button on the form and without needing to hard code the limiting dates into the query.



A The Event Daven Model Figure 13.3.

Both the report and the

query refer to controls on



main report, to subtract the total received from the total due. Open the rptClientAccounts report in Design view, and add a text box to the bottom of the JobID footer. Name it contained a TotalReceiptAmt control. You needed to refer to the value in this control in the In the "Essential Example" of Chapter 8, "Report Basics," the subreport named rptReceiptSub BalanceOwing, and set its ControlSource to subtract the total in the subform from the total in

= [TotalCharge] · [rptReceiptSub].Report1[TotalReceiptAmt]

## **Essential Summary**

What

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objects. Each object has properties and events. Knowing how to refer to an object opens the way for you to manipulate the object or access the The forms and reports in Access are treated as objects. The controls that they contain are also

and enclose names in square brackets. Use the bang operator (1) before user-defined names, To give the full name of an object in Access, begin with the collection the object belongs to data it contains. All the remaining material in this book assumes that you have learned how to refer to these objects.

and the dot operator (.) before system names. Use the OLookup() function to refer to data in a table. Olookup() requires three arguments: the To refer to a subform or subreport, you must include the .Form or .Report as part of the name, The collection of open forms is called Forms. The collection of open reports is called Reports

field to look up, the table to look in, and a criteria statement identifying the record to find

interface that nonprogrammers can follow. Now that you know how to refer to objects, you can begin to manipulate them to your advantage. The macro provides a pleasantly simple

#### What Is a Macro?

A macro is a sequence of actions programmed to occur on command.

Unlike the other major products in the Microsoft Office suite. Access stead, you select each action from a drop-down list and supply details of the objects involved with the action. does not enable the user to create macros by recording keystrokes. Inmajor products in the Microsoft Office suite, Access

ros combined as a macro group. Grouping similar macros makes them easier to locate and maintain. The macros listed in the Database window can actually be several mac-

### Why Use Macros?

Macros make repetitive tasks easier and faster. By assigning a macro to a button, a keystroke, or a menu item, you can improve the interface of