Making The CDC DB Operational

CSE 100

The three tables are presently just "standalone" tables. They will be more effective when we link them together, and set up mechanisms to manipulate the data they contain.

CSE 100 The Three Tables

❖ The three tables are unconnected, but we intend for there to be a relationship between the fields of the Visits table and the fields of the other two.
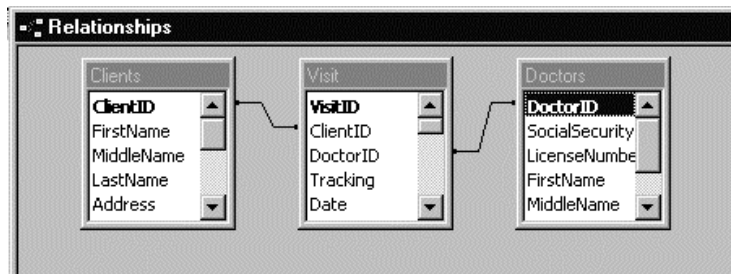
CSE 100 Define Relationships Among Tables

- ❖ Use the Relationships tool ...
- ❖ Drag the ID fields from their positions in Clients and Doctors, to their positions in Visit to establish the relationship that these are intended to be the same information

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CSE 100 Queuing A Patient

- ❖ Once the client record is filled out, the receptionist will want to "queue" the client to be seen by one of the health professionals
- ❖ Queuing amounts to creating a record in the Visits table with the ClientID filled in and the DoctorID filled in
- ❖ The Client Form must be reconstructed to make this possible … the concept to be used is "linked form"

CSE 100 Example of The Link "Queue"

CSE 100 Linking Clients and Visits by Queue

❖ When rebuilding the clients form, include the three fields, Visits.VisitID, Visits.ClientID, Visits.DoctorID

❖ You are queried how you want to handle these fields, and the proper reply is "linked"

❖ Notice that the name of the linked form is "Queue"

In a more complete implementation, this form would be more aesthetic, and would use a list menu so the doctors could be referred to by first name rather than number …

CSE 100 Building The Visit Form

CSE 100 Highlights On Visit

- ❖ Use names rather than Ids
  - ✦ Client
  - ✦ Doctor … and reorient the health professional's name
- ❖ Organization of the form and clean-up of information
- ❖ Skip to end button … the new entries at the back
- ❖ Tracking number … initially blank
- ❖ Order, a command button that causes the tracking number to be computed

Setting Tracking Number

- ❖ What should the tracking number be?
- ❖ The key goal is to avoid associating the number with the client, except via the Visits table
- ❖ Strong encryption and other powerful technologies could be used, but we will adopt a simple scheme:

CDCxxxxxxxx

> Hex is a way to write the computer's internal binary numbers using digits 0,1,2, …, 9, A, B, C, D, E, F

where xxxxxxxx is the hexadecimal number for

Months_in_operation * 1000000 + VisitID

computed by ...

Modifying cmdOrder_Click()

```
Private Sub cmdOrder_Click()

    Tracking.SetFocus
    Tracking.Locked = False
    Tracking.Text = "CDC" & Hex((12 * (Year(Date)
            - Year("5/5/99")) + Month(Date))
            * 1000000 + VisitID)
    Tracking.Locked = True

On Error GoTo Err_cmdOrder_Click



    DoCmd.DoMenuItem acFormBar, acRecordsMenu, 5,
            , acMenuVer70
...
End Sub
```