

Completing the PSHC Database



Constructing queries for the
Puget Sound Health Clinic

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Review of SCCHC Operation

- ❖ Part II of Project 3 looks at the next set of operations: the interaction between client and doctor, the request for tests and the handling of those tests as they go to and from the test labs
 - ❑ Enter client data, health professional data
 - ❑ Queue client for visit with health professional
 - ❑ Health professional fills out consultation chart
 - ❑ Order tests
 - ❑ Label specimens
 - ❑ Compare specimens to manifest (send to labs)
 - ❑ Record results from test outcome

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PSHC Puget Sound Health Clinic
1429 85th Ave SE
Seattle, WA 98001
(206) 222-8888
"Because we care!"

VisitID: DateOfVisit: 2/4/2002
Patient for: Joe Hack
Patient Name: Mrs. Grace Beauchane Whiteaker
Recent Medical History: Rapid drug user Drug
HIV
Aids
HepB
Exceptional
Presenting Symptoms: shakas, chills, vomit
Notes: needs help
Order Tests
Tracking Number

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Sample
frmConsultation
Form



The Order Button

- ❖ Like any command button control, the database developer places it on the form and programs the event handler
- ❖ The difference for Access is that the handler will prepare for different operations... so selecting the right option is important

Command Button Wizard

Sample: Refresh

What action do you want to happen when the button is pressed?

Different actions are available for each category.

Categories:	Actions:
Record Navigation	Apply Form Filter
Record Operations	Close Form
Form Operations	Edit Form Filter
Report Operations	Open Form
Application	Open Page
Miscellaneous	Print a Form
	Print Current Form
	Refresh Form Data

Buttons: Cancel < Back Next > Finish

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FIT 100 Computing the Tracking Number

- ❖ After completing the form wizard, the command button event handler has the following code:

```
Option Compare Database
Option Explicit
Private Sub XXX_Click()
On Error GoTo Err_XXX_click
```

Tracking number computation here

```
DoCmd.DoMenuItem acFormBar, acRecordsMenu, 5, , acMenuVer70
Exit_XXX_Click:
Exit Sub
Err_XXX_click:
MsgBox Err.Description
Resume Exit_XXX_Click
End Sub
```

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FIT 100 Enter the Tracking Number

- ❖ The tracking number field is something the user cannot enter (locked field) and cannot change, in the click event of the order button enter code that will...
 - ❑ Place the cursor in the tracking number field
 - ❑ Unlock the field
 - ❑ Assign the field a new value:

```
YYY.Text = "PSHC" & Hex((12 * (Year(Date) - Year("05/02/02")) + Month(Date)) * 1000000 + VisitID)
```
 - ❑ Lock the field down so no changes can be made by the user
- ❖ What is the tracking number?
 - ❑ The letters "PSHC" followed by the computer's hexadecimal encoding of the number of months since the creation of the database plus the current month number multiplied by one million, plus the VisitID
- ❖ The tracking number is reversible, but not easily associated with a person or a visit.

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FIT 100 The Results ...

VisitID: 1 DateOfVisit: 2/4/2002

Patient for: Joe Hack

Patient Name: Mrs. Grace Beauchane Whiteak

Recent Medical History: Rabid drug user

Presenting Symptoms: shakes, chills, vomit

Notes: needs help

Drug: HIV Aids HepB Exceptional

Order Test?

Tracking Number: PSHC1E8481

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FIT 100 PSHC Design Thus Far

- ❖ The PSHC has the following components so far:
 - ❑ tblClient table with frmClient, this form includes a command button to open frmAppointment which starts rows of data in the tblVisit
 - ❑ tblHealthPro table and frmHealthClinicStaff form
 - ❑ tblVisit Table and frmConsultation Form with Order button to set the tracking number
- ❖ Now all you need to do is prepare for the post-visit processing (determining what tests are to be done, entering results, etc)
- ❖ The main idea in "post visit" processing is to build new tables from the data in the Visit table
- ❖ These virtual tables (views) are produced through *queries*

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FIT 100 A Query

- ❖ The queries you will use are questions to the database system asking to view the requested data in a new (virtual) table

VisitID	Health	Client	DateOfVisit	TrackingNumber	DrugTes	Drug	HIVTe	HIVT	AidsT
1	2	2	2/27/2002	PSHC1E8481	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>
2	2	2	2/27/2002		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
3	2	3	2/27/2002		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
4	2	4	2/27/2002	PSHC1E8484	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
6	2	1	2/27/2002	PSHC1E8486	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
14	3	1	2/27/2002		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
15	2	2	2/27/2002	PSHC1E848F	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
16	2	3	2/27/2002	PSHC1E8490	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>
17	1	3	2/27/2002	PSHC1E8491	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
18	2	5	2/27/2002	PSHC1E8492	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
19	1	1	2/27/2002	PSHC1E8493	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

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FIT 100 Queries Can Do More Than Show Columns...

- ❖ Records with specific properties can be tested

VisitID	Health	Client	DateOfVisit	TrackingNumber	DrugTes	Drug	HIVTe	HIVT	AidsT
1	2	2	2/27/2002	PSHC1E8481	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>
4	2	4	2/27/2002	PSHC1E8484	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
6	2	1	2/27/2002	PSHC1E8486	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
16	2	3	2/27/2002	PSHC1E8490	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>
18	2	5	2/27/2002	PSHC1E8492	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
19	1	1	2/27/2002	PSHC1E8493	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

- ❖ We can create a query that keeps only those entries where the Tracking field is not empty and a drug test was requested

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FIT 100 How To Specify Criteria For Testing in QBE

- ❖ After identifying the table and columns to be shown, edit the criteria

Field:	DateOfVisit	TrackingNumber	DrugTestRequired
Table:	Visit	Visit	Visit
Sort:			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:		<>	Yes

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FIT 100 Changes In the Query are Visible

TrackingNumber	DateOfVisit	DrugTes
PSHC1E8481	2/27/2002	<input checked="" type="checkbox"/>
	2/27/2002	<input type="checkbox"/>
	2/27/2002	<input type="checkbox"/>
PSHC1E8484	2/27/2002	<input type="checkbox"/>
PSHC1E8486	2/27/2002	<input checked="" type="checkbox"/>
	2/27/2002	<input type="checkbox"/>
PSHC1E848F	2/27/2002	<input type="checkbox"/>
PSHC1E8490	2/27/2002	<input checked="" type="checkbox"/>
PSHC1E8491	2/27/2002	<input type="checkbox"/>
PSHC1E8492	2/27/2002	<input checked="" type="checkbox"/>
PSHC1E8493	2/27/2002	<input checked="" type="checkbox"/>
PSHC1E8494	2/27/2002	<input checked="" type="checkbox"/>
PSHC1E8495	2/27/2002	<input checked="" type="checkbox"/>
PSHC1E8496	2/27/2002	<input checked="" type="checkbox"/>
*	3/10/2002	<input type="checkbox"/>

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FIT 100 Criteria For Testing in QBE

- ❖ How would you make sure it's the current date?
- ❖ How would you get all tests requested on the list?

Criteria on the same line are combined with AND, on separate lines they are combined with OR

Field:	DateOfVisit	TrackingNumber	DrugTestRequired
Table:	Visit	Visit	Visit
Sort:			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:			
or:	<= ""		Yes

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FIT 100 Wrapping Up the PSHC Database

- ❖ Create frmConsultation
- ❖ Set the tracking number for ordered tests
- ❖ Build the Main Manifest query
- ❖ From the main manifest, build manifests for each test offered
- ❖ Labels and Reports can be built from the same manifest queries
- ❖ Build additional queries that will prompt a user for the date and recreate the virtual tables, allowing them to enter results returned from the labs.
 - ❑ Use the Visit table for these queries

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