

7-22-2002

## Design and Implementation of an Online Database Panel

Frenny Thomas  
*Columbus State University*

Follow this and additional works at: [https://csuepress.columbusstate.edu/theses\\_dissertations](https://csuepress.columbusstate.edu/theses_dissertations)



Part of the [Computer Sciences Commons](#)

---

### Recommended Citation

Thomas, Frenny, "Design and Implementation of an Online Database Panel" (2002). *Theses and Dissertations*. 115.

[https://csuepress.columbusstate.edu/theses\\_dissertations/115](https://csuepress.columbusstate.edu/theses_dissertations/115)


This Thesis is brought to you for free and open access by the Student Publications at CSU ePress. It has been accepted for inclusion in Theses and Dissertations by an authorized administrator of CSU ePress.



# **DESIGN AND IMPLEMENTATION OF AN ONLINE DATABASE PANEL**

**Frenny Thomas**





Digitized by the Internet Archive  
in 2012 with funding from  
LYRASIS Members and Sloan Foundation

<http://archive.org/details/designimplementa00thom>

*Design and Implementation of an Online Database Panel*  
by  
*Frenny Thomas*

Honors Thesis  
[http://students.colstate.edu/thomas\\_frenny/thesis](http://students.colstate.edu/thomas_frenny/thesis)

*Thesis Advisor: Dr. Stan Kurkovsky*  
*Honors Coordinator: Dr. Barbara Hunt*

\*\*\*\*\*

9:30am - 10:45am  
Monday July 22, 2002  
Computer Science Dept. (FOB)  
Main Office Conference Room

GA  
76  
. C66d  
no. 1  
CS11  
for III

GA  
9-11-02

## Table of Contents

---

I. Thesis Proposal

II. Oral Defense Presentation

III. Walkthrough with Screenshots

IV. References

v. Defense Committee Approval form

# HONS 4001 Project Proposal

By: Frenny Thomas

Mentor: Dr. Stan Kurkovsky

## **Project title/proposal:**

Design and Implementation of an Online Database Panel

Sample application: newspaper content management system

## **Motivation:**

There is a growing need for administrative panels such as the one described in this project. More and more website administrators wish to make changes to their online business without having to directly modify the database file. This project provides the perfect solution for this scenario by placing all database access on the World Wide Web. Administrators can now use this software to add, edit, and delete tables, fields, and records. Additionally, users will be able to generate queries without knowledge of Structured Query Language.

## **Rationale/significance:**

This project acts as a summary of my computer science education at this university by requiring the following skills:

- Knowledge of HTML design and coding
- Experience in planning and designing software projects
- Database planning, design, and usage
- Knowledge of VBScript to code Active Server Pages (ASP)
- Use of Javascript for client-side data validation
- Practice in SQL generation and use of Recordsets

## **Target Users:**

Website administrators who require online access to databases, thereby allowing instantaneous content modification.

## **Goals/Objectives:**

To implement a user-friendly online interface that functions exactly as Microsoft Access 2000. This involves the creation and manipulation of tables, fields, and records. It requires the knowledge of internal functions within the Microsoft.Jet.OLEDB.4.0 Provider to create SQL instructions, as well as the ability to create and display Recordsets in an efficient and accurate manner.

In addition to being able to manipulate data, the online panel must also be able to display the data in any modified format as designed by the user. Therefore the panel must pose a series of questions regarding the desired results, and convert the request into one SQL query. This may involve the use of Session objects as well.

## **Comments or suggestions for the proposed method of implementation:**

In its commencement, the project will simply function as an online interface surrounding an empty Access database. Then through links on a navigation menu, users will have the choice to manipulate tables, fields, and/or records on this project. Once the panel is completely able to modify an Access database through its interface, a fictional newspaper's administrative panel will be designed to implement this project. The newspaper panel will run the features of this panel once login authentication has been completed.

This project will include the use of FrontPage 2000 and Notepad for HTML & Graphical design, MS Access 2000 for database applications, and Visual Interdev for ASP coding.

### **Sample Application:**

For future purposes, this project can serve as a model for an administrative panel for the Book Bulletin ([students.colstate.edu/causa/books](http://students.colstate.edu/causa/books)) – a service for CSU students to post their used textbooks for sale. To keep the Book Bulletin running without erroneous data, it is essential that future administrators of the Honoris Causa website be able to view, update, and delete entries in the Book Bulletin database. An online administrative panel must be user-friendly and simple so that one does not have to have extensive technical knowledge to use the system.

### **Proposed Project Schedule**

*Note: Each checkpoint will test and verify the functionality listed on the previous period*

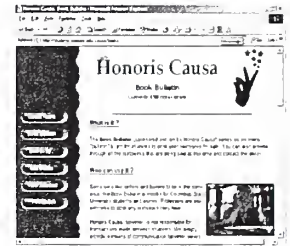
<b>May 3</b>	Allocate folders and empty Access database file on CSU web space; prepare website for project
<b>May 3 - 15</b>	Forming a Table: Research and implement internal Access functions to create a table with user's field specifications
<b>May 15</b>	Checkpoint with mentor
<b>May 15 – May 29</b>	Modifying Tables: implement options to add/edit/delete fields, change primary key, rename and drop tables.
<b>May 29</b>	Checkpoint with mentor
<b>May 29 – June 12</b>	Adding Records: implement ability to add, edit, and delete records in any selected table.
<b>June 12</b>	Checkpoint with mentor
<b>June 12 – June 26</b>	Query Generation: produce SQL queries through a series of simple questions.
<b>June 26</b>	Checkpoint with mentor
<b>June 26 – July 10</b>	Practical application: Newspaper administrative panel that implements all previous functionalities
<b>July 10 – July 15</b>	Revisions and corrections made to project with mentor
<b>July 15</b>	Submission of final project to mentor Arranging of Honors thesis panel
<b>July 22</b>	Oral Defense presented to Thesis panel
<b>July 23 – 29</b>	Revisions (if any) made on final Thesis
<b>July 29</b>	Submission of Thesis copies to library and Dr. Hunt

# HONS 4001 Honors Thesis Oral Defense

July 22, 2002  
By: Frenny Thomas

## The Book Bulletin

- Independent Study Project
- An online service for students to post and search for used textbooks
- Skills involved
  - Database access
  - Table design
  - Record management



<http://students.colstate.edu/causa/books>

## What is an Honors Thesis?

- Senior in the Honors Program
- HONS 4001
  - Study an approved topic or
  - Create a project to accomplish some computing task
- Result = A software project to be presented and defended in an oral defense
- Copies placed in the Simon Schwob Library and/or on the CSU Honors Program website

## Some Key Terms

- **Database** = A structure that holds all data relating to a particular purpose *Ex NorthWind*
- **Table** = An entity that actually holds the data and is defined by a particular structure *Ex Customers*
- **Field/Column** = An element of a table record *Ex Email*
- **Record** = The primary unit of information contained in a table
- **Primary Key** = The field that uniquely identifies each record *Ex SSN*

Customers		
SSN	Name	Email
200325235	Sandra Connor	sconnor@yahoo.com
201304135	David Hardy	David@hotmail.com
210025342	Laura James	Ljames@colstate.com



## The Plan



- Motivation
  - Online database access for web administrators to keep their sites "up-to-date"
  - Stored data presented without Server-Side scripting knowledge
  - Dynamic generation of queries
- Objectives
  - A web-based interface to Microsoft Access® 2000
  - Newspaper content management system

## Part I: Access 2000 Interface

- Tables
  - Create/Rename/Delete
- Fields
  - Add/Edit/Delete any number of Fields
  - Set Access 2000 data types
  - Primary Keys
  - ADOX – Extended ADO
- Records
  - Add records according to listed data type
  - View only specified fields within a table
  - Edit if Primary Key specified
  - Delete from Edit mode

## Project Tools

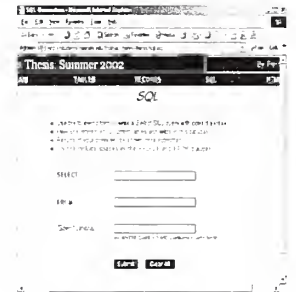
- ✓ HTML
- ✓ Software Project experience
- ✓ Database design
- ✓ JavaScript
- ✓ Active Server Pages (VBScript)
- ✓ SQL
- Access 2000
- Visual Interdev
- FrontPage 2000
- Adobe Photoshop 6.0
- WS\_FTP



## Part I: Access 2000 Interface (contd..)

- SQL
  - Columns
  - Tables
  - Other specifications

\*\* Results in table format showing only selected fields

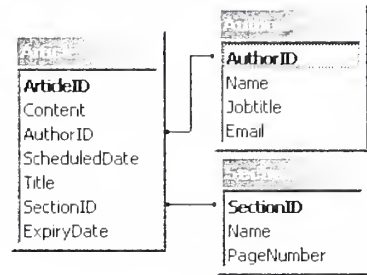


# Demo

## Access 2000 Interface

[students.colstate.edu/thomas\\_frenny/thesis](http://students.colstate.edu/thomas_frenny/thesis)

## Part II: Online Newspaper Entity Relationship Diagram



## Part II: Online Newspaper



### ■ The Cougar Report

- [www.winslowaznews.com](http://www.winslowaznews.com)
- 7 Authors
- 18 Articles
- 6 Sections

## Part II: Online Newspaper PseudoASP Guidelines

<#TableName|[ColumnName]|[FieldName1='text']|[FieldName2=#2/23/00#]| #>

- ✓ 1 Field of 1 Record
- ✓ At least one Field specification required
- ✓ Submission method
  - ✓ Cut & paste (requires filename)
  - ✓ Upload
- ✓ Templates saved in database table
- ✓ \*curDate\* = System date
- ✓ \*URL.variablename\* = retrieve query string variable value
- ✓ Relative hyperlink paths and "&" delimiter

<a href="page2.htm&sectionid=3&authorid=6">

# Demo

Online Newspaper

[students.colstate.edu/thomas\\_frenny/thesis](http://students.colstate.edu/thomas_frenny/thesis)

# Any Questions ?



# Conclusion



- Accomplishments
  - A web-based tool for database management
  - An online newspaper composed entirely from the PseudoASP template processor
- Future Uses
  - Book Bulletin administrative panel

# The End

# Step # 1

- Open up Internet Explorer on your computer
- Type in [http://students.colstate.edu/thomas\\_frenny/thesis](http://students.colstate.edu/thomas_frenny/thesis) as the URL destination

\*\*Note: After July 31,2002, the URL will be renamed to [http://studentwebs.colstate.edu/thomas\\_frenny/thesis](http://studentwebs.colstate.edu/thomas_frenny/thesis)

Thesis Main Page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address [http://students.colstate.edu/thomas\\_frenny/thesis/](http://students.colstate.edu/thomas_frenny/thesis/) Go Links

## Honors Thesis: Summer 2002

By: Frenny Thomas

**MAIN** TABLES RECORDS SQL HTML

### Welcome

Requirements:  
Student must be of senior standing and a member of the CSU Honors Program. He/She must study and/or experiment with an approved topic in computer science, or design and write a program to accomplish some task in computing. The study will result in a software project, which will then be presented and defended in an oral defense to an appropriately chosen college committee

Thesis Advisor: [Dr. Stan Kurkowsky](#)  
Honors Coordinator: [Dr. Barbara Hunt](#)

View the [Thesis Proposal](#)

The Thesis presented throughout this website is in fulfillment of the above requirements for Honors in the degree of Bachelor in Computer Science, College of Science, Columbus State University.

Today is: Wednesday, July 24, 2002



## Step # 2

- Click the "Tables" Link on the top navigational bar
- Click on the "Add New" button to create a table

The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads "Thesis Tables - Microsoft Internet Explorer". The address bar contains the URL "http://students.colstate.edu/thomas\_frenny/thesis/tables.asp". The main content area has a header "Honors Thesis: Summer 2002" and "By: Frenny Thomas". Below the header is a navigation bar with links: MAIN, TABLES, RECORDS, SQL, and HTML. The "TABLES" link is selected. The main content area is titled "Tables" and contains the text "Current Tables in myproject db. Click on the appropriate link to view/delete/rename a table". To the right of this text is a button labeled "Add New". Below this is a list of tables with their respective actions:

• Articles	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>
• Authors	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>
• Sections	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>
• Table3	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>
• Table6	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>
• Table7	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>

## Step # 3

- Type "Customers" as the Table Name
- Type the number "3" into the # of Fields, then hit the "Update!" button (The 3 field areas will appear below)
- Provide 3 Field names and specify field types. Check the box(es) next to the field(s) you wish to set as a primary key field(s).
- Click the "Create Table" button to create the specified table

**Thesis Tables - Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Back Forward Search Favorites Media

Address [http://students.colstate.edu/thomas\\_frenny/thesis/tables\\_new.asp](http://students.colstate.edu/thomas_frenny/thesis/tables_new.asp) Go Links >>

### Add New Table

- To add a new table, please provide its name and number of fields first
- Then click the update button, to describe each field
- After all columns are defined, check the box to the left of a field to select it as the primary key for this table (at least one required)

Table Name:

# of Fields/Columns:

**Update!**

Feature only available thru Internet Explorer

---

<input checked="" type="checkbox"/>	<b>Field1</b> Name: <input type="text" value="SSN"/>	Data Type: <input type="text" value="Text"/>
<input type="checkbox"/>	<b>Field2</b> Name: <input type="text" value="Name"/>	Data Type: <input type="text" value="Text"/>
<input type="checkbox"/>	<b>Field3</b> Name: <input type="text" value="Email"/>	Data Type: <input type="text" value="Text"/>

**Create Table** **Clear All**

## Step # 4

- A confirmation message will appear on the main "Tables" page, and the table "Customers" will appear in the list of existing tables
- Click the "Edit" button beside the "Customers" table to redefine the Table specifications

The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads "Thesis Tables - Microsoft Internet Explorer". The address bar contains the URL: [http://students.colstate.edu/thomas\\_frenny/thesis/tables.asp?message=New+Table+has+been+added](http://students.colstate.edu/thomas_frenny/thesis/tables.asp?message=New+Table+has+been+added). The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The browser's toolbar includes Back, Forward, Home, Search, Favorites, Media, and other navigation icons. The main content area of the browser displays a web page with a navigation menu at the top: MAIN, TABLES, RECORDS, SQL, and HTML. The page title is "Honors Thesis: Summer 2002" and the author is "By: Frenny Thomas". The main heading is "Tables". Below the heading, there is a message: "Current Tables in myproject db: Click on the appropriate link to view/delete/rename a table". To the right of this message is a button labeled "Add New". Below the message, there is a list of tables with their respective actions:


• Articles	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>
• Authors	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>
• Customers	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>
• Sections	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>
• Table3	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>
• Table6	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>
• Table7	<a href="#">Edit</a> <a href="#">Delete</a> <a href="#">Rename</a>


To the right of the table list, there is a message: "New Table has been added".

## Step # 5

- All the fields within the "Customers" table will be displayed.
- Additional fields can be added by specifying the desired number below, clicking the "Generate" button, completing the field names and data types, and clicking the "Add Fields" button to complete the process
- Change the Field Name "Name" to "LName" and click the Update button.
- A confirmation message will appear on the same page and the field name will have been permanently changed.

**View Table**  
Table Name : Customers

 = Primary key field

Field Name	Field Type	Update	Delete
<input type="text" value="Email"/>	Text	<input type="button" value="Update"/>	<input type="button" value="Delete"/>
<input type="text" value="LName"/>	Text	<input type="button" value="Update"/>	<input type="button" value="Delete"/>
 <input type="text" value="SSN"/>	Text	<input type="button" value="Update"/>	<input type="button" value="Delete"/>

**Add more Fields**

- To add more columns to this table, type the desired quantity below and click the Generate button

# of Additional Fields/Columns:

Feature only available thru Internet Explorer



## Step # 6

- Click on the "Records" link on the top navigational bar
- Click on the "Add" link beside the "Customers" table to add 1 record to the entity

Thesis Records - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print Refresh Home

Address [http://students.colstate.edu/thomas\\_frenny/thesis/records.asp](http://students.colstate.edu/thomas_frenny/thesis/records.asp) Go Links »

# Honors Thesis: Summer 2002

By: Frenny Thomas

**MAIN** **TABLES** **RECORDS** **SQL** **HTML**

## Records

Available Tables:  
Click on the appropriate link to Add or Modify records on a table

- Articles [Add](#) [View](#)
- Authors [Add](#) [View](#)
- Customers [Add](#) [View](#)
- Sections [Add](#) [View](#)
- Table3 [Add](#) [View](#)
- Table6 [Add](#) [View](#)
- Table7 [Add](#) [View](#)

## Step # 7

- A Record layout will be displayed for the Customers table; including Field Names and Field data types as guides
- Fill in all the fields and click the "Submit" button to create the first record

The screenshot shows a Microsoft Internet Explorer browser window titled "Thesis Records - Microsoft Internet Explorer". The address bar contains the URL: [http://students.colstate.edu/thomas\\_frenny/thesis/records\\_new.asp?table=Customers](http://students.colstate.edu/thomas_frenny/thesis/records_new.asp?table=Customers). The page content includes a navigation menu with "MAIN", "TABLES", "RECORDS", "SQL", and "HTML". The "RECORDS" section is active, displaying "Add Record" for the "Customers" table. Below this, there is a form with the following fields:

Column	Value	Type
Email	<input type="text" value="pjohn@hotmail.com"/>	Text
LName:	<input type="text" value="John"/>	Text
SSN	<input type="text" value="123456789"/>	Text

At the bottom of the form, there are two buttons: "Submit" and "Clear All".

## Step # 8

- A confirmation message will appear on the Records main menu.
- Click on the "View" link beside the "Customers" table to view & edit the previous record

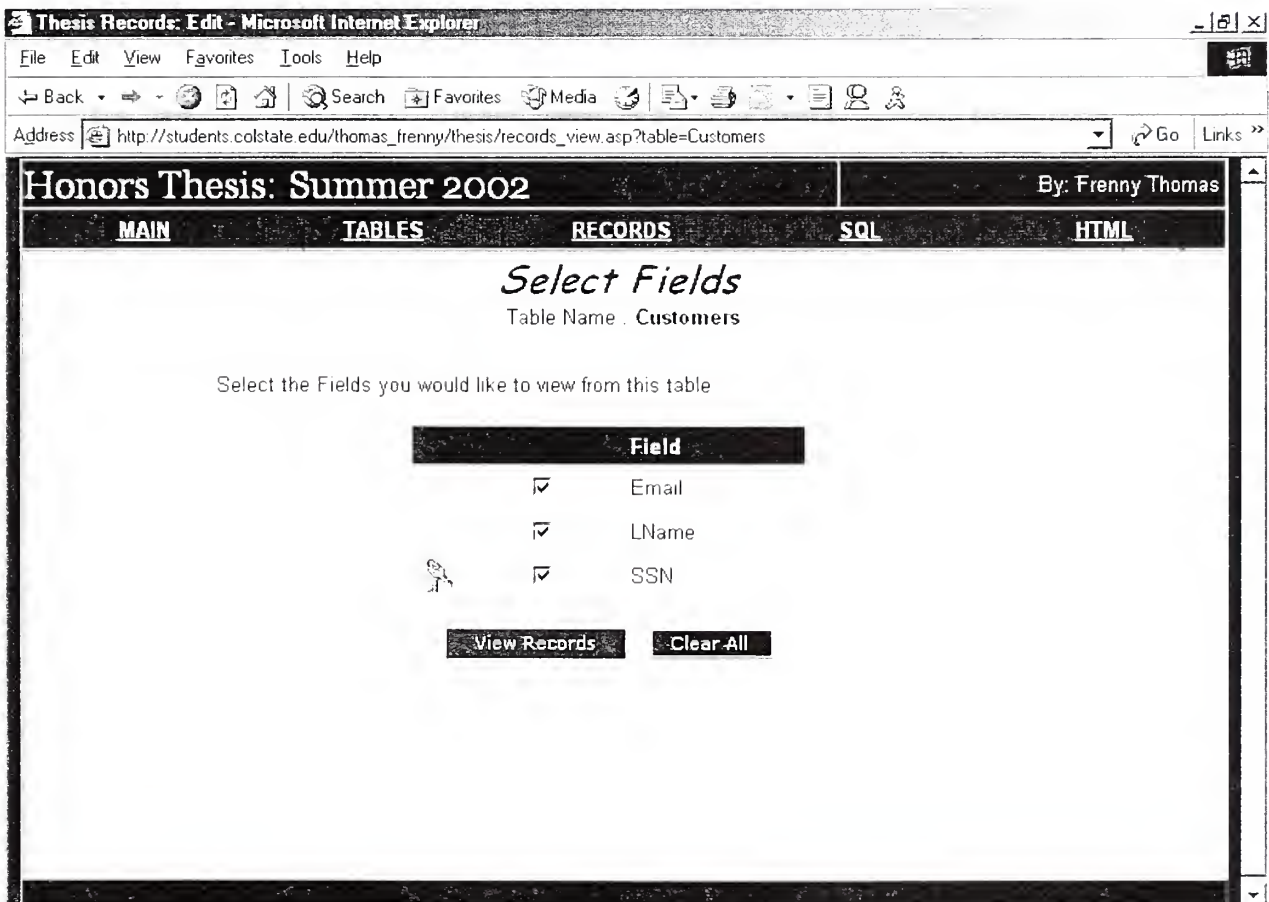
The screenshot shows a Microsoft Internet Explorer browser window with the following details:

- Browser Title:** Thesis Records - Microsoft Internet Explorer
- Address Bar:** [http://students.colstate.edu/thomas\\_frenny/thesis/records.asp?message=1+Record+has+been+added+to+Customers](http://students.colstate.edu/thomas_frenny/thesis/records.asp?message=1+Record+has+been+added+to+Customers)
- Page Header:** Honors Thesis: Summer 2002 (left) and By: Frenny Thomas (right)
- Navigation Menu:** MAIN, TABLES, RECORDS (selected), SQL, HTML
- Section Title:** Records
- Message:** 1 Record has been added to Customers
- Available Tables:** A list of tables with 'Add' and 'View' links for each.

Table Name	Add	View
Articles	<a href="#">Add</a>	<a href="#">View</a>
Authors	<a href="#">Add</a>	<a href="#">View</a>
Customers	<a href="#">Add</a>	<a href="#">View</a>
Sections	<a href="#">Add</a>	<a href="#">View</a>
Table3	<a href="#">Add</a>	<a href="#">View</a>
Table6	<a href="#">Add</a>	<a href="#">View</a>
Table7	<a href="#">Add</a>	<a href="#">View</a>

## Step # 9

- Before viewing all records, you must specify which fields you'd like to see from the table Customers
- Place a checkmark next to each field you'd like to see in the results
- Click the "View Records" button



The screenshot shows a Microsoft Internet Explorer browser window titled "Thesis Records: Edit - Microsoft Internet Explorer". The address bar contains the URL: [http://students.colstate.edu/thomas\\_frenny/thesis/records\\_view.asp?table=Customers](http://students.colstate.edu/thomas_frenny/thesis/records_view.asp?table=Customers). The page content includes a navigation menu with links for MAIN, TABLES, RECORDS, SQL, and HTML. The main heading is "Honors Thesis: Summer 2022" by Frenny Thomas. The page is titled "Select Fields" for the table "Customers". It prompts the user to "Select the Fields you would like to view from this table" and displays a list of fields with checkboxes:

Field
<input checked="" type="checkbox"/> Email
<input checked="" type="checkbox"/> LName
<input checked="" type="checkbox"/> SSN

At the bottom of the form, there are two buttons: "View Records" and "Clear All".



## Step # 10

- The following page will display all the records within the "Customers" table customized by the previously selected fields
- A radio button will appear beside each record
- To Edit the 1<sup>st</sup> record, click the "Modify Selected Record" button while the first record is selected

The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads "Thesis Records: Show Results - Microsoft Internet Explorer". The address bar contains the URL "http://students.colstate.edu/thomas\_frenny/thesis/records\_show.asp?table=Customers". The page content includes a navigation menu with "MAIN", "TABLES", "RECORDS", "SQL", and "HTML". The main heading is "View Record(s)" with the subtext "Table Name . Customers". Below this, it says "Your results ..." and displays a table with one record selected. The table has columns for "Select", "Email", "LName", and "SSN". The selected record shows a radio button, the email "pjohn@hotmail.com", the name "John", and the SSN "123456789". A "Modify Selected Record" button is located below the table.

Select	Email	LName	SSN
<input checked="" type="radio"/>	pjohn@hotmail.com	John	123456789

[Modify Selected Record](#)

## Step # 11

- The following page will display the previously selected record in Edit mode, as well as guides to each Field data type
- Change the Email value to "pjohn@msn.com"
- Click the "Update" button. A confirmation message will appear on the Main Records page

The screenshot shows a Microsoft Internet Explorer browser window with the address bar displaying `http://students.colstate.edu/thomas_frenny/thesis/records_modify.asp?table=Customers`. The page title is "Honors Thesis: Summer 2002" and the author is "By: Frenny Thomas". The navigation menu includes "MAIN", "TABLES", "RECORDS", "SQL", and "HTML". The main content area is titled "Modify Record" and "Table Name : Customers". Below this, there is a instruction: "Use the Update or Delete button to modify the selected record:". A table displays the record details:

Column	Value	Type
Email:	<input type="text" value="pjohn@msn.com"/>	Text
LName:	<input type="text" value="John"/>	Text
SSN:	<input type="text" value="123456789"/>	Text

At the bottom of the table, there are two buttons: "Update" and "Delete".

## Step # 12

- Click the "SQL" link on the top navigational bar
- Fill in a SQL query to retrieve all the records within the "Customers" table
- Click the "Submit" button

The screenshot shows a Microsoft Internet Explorer browser window titled "SQL Generation - Microsoft Internet Explorer". The address bar contains the URL "http://students.colstate.edu/thomas\_frenny/thesis/sql.asp". The page content includes a navigation bar with links for "MAIN", "TABLES", "RECORDS", "SQL", and "HTML". The "SQL" link is selected. Below the navigation bar, the word "SQL" is displayed in a large, stylized font. A list of instructions is provided, followed by a form with three input fields: one for the "SELECT" clause (containing an asterisk), one for the "FROM" clause (containing "Customers"), and one for "(Specifications)" (containing an example query). At the bottom of the form are "Submit" and "Clear All" buttons.

SQL Generation - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print

Address [http://students.colstate.edu/thomas\\_frenny/thesis/sql.asp](http://students.colstate.edu/thomas_frenny/thesis/sql.asp) Go Links

Honors Thesis: Summer 2002 By: Frenny Thomas

MAIN TABLES RECORDS SQL HTML

### SQL

- Use the following form to write a *Select* SQL query with correct syntax
- Only use references to current tables and fields in this database
- Results of your query will be shown once submitted.
- Do not include spaces in the SELECT and FROM clauses!

SELECT

FROM

(Specifications)

ex. WHERE CustID = 3 AND CustName = 'John Smith'

Submit Clear All

## Step # 13

- Query Results as well as a record count will be shown on the following page

SQL: Show Results - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media Go Links >>

Address [http://students.colstate.edu/thomas\\_frenny/thesis/sql\\_show.asp](http://students.colstate.edu/thomas_frenny/thesis/sql_show.asp)

### Honors Thesis: Summer 2002

By: Frenny Thomas

[MAIN](#) [TABLES](#) [RECORDS](#) [SQL](#) [HTML](#)

## Query Result(s)

Your query produced ( 1 ) results

Email	LName	SSN
pjohn@msn.com	John	123456789



## Step # 14

- Click the "HTML" link on the top navigational bar
- Type (or Cut & Paste) a general html page into the large text area.
- Use the HTML and PseudoASP guidelines to display the "Email" value for a record in the "Customers" table which has a LName of "John"
- Provide a filename of "demo.asp"
- Click the "Submit" button

HTML Processing - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste

Address [http://students.colstate.edu/thomas\\_frenny/thesis/html.asp](http://students.colstate.edu/thomas_frenny/thesis/html.asp) Go Links >>

5. Use relative paths on all links. Since querystring variables are allowed in your hyperlinks, use the "&" operator instead of the "?" marker when attaching variables.  
For example: `<a href="page2.htm&sectionid=3&title='Sports'">`

6. \*Only use references to valid tables and fields in this database  
\*\*Remember! Enclose text values in single quotes, and date/time values in # signs

File Name:  example: template1.htm

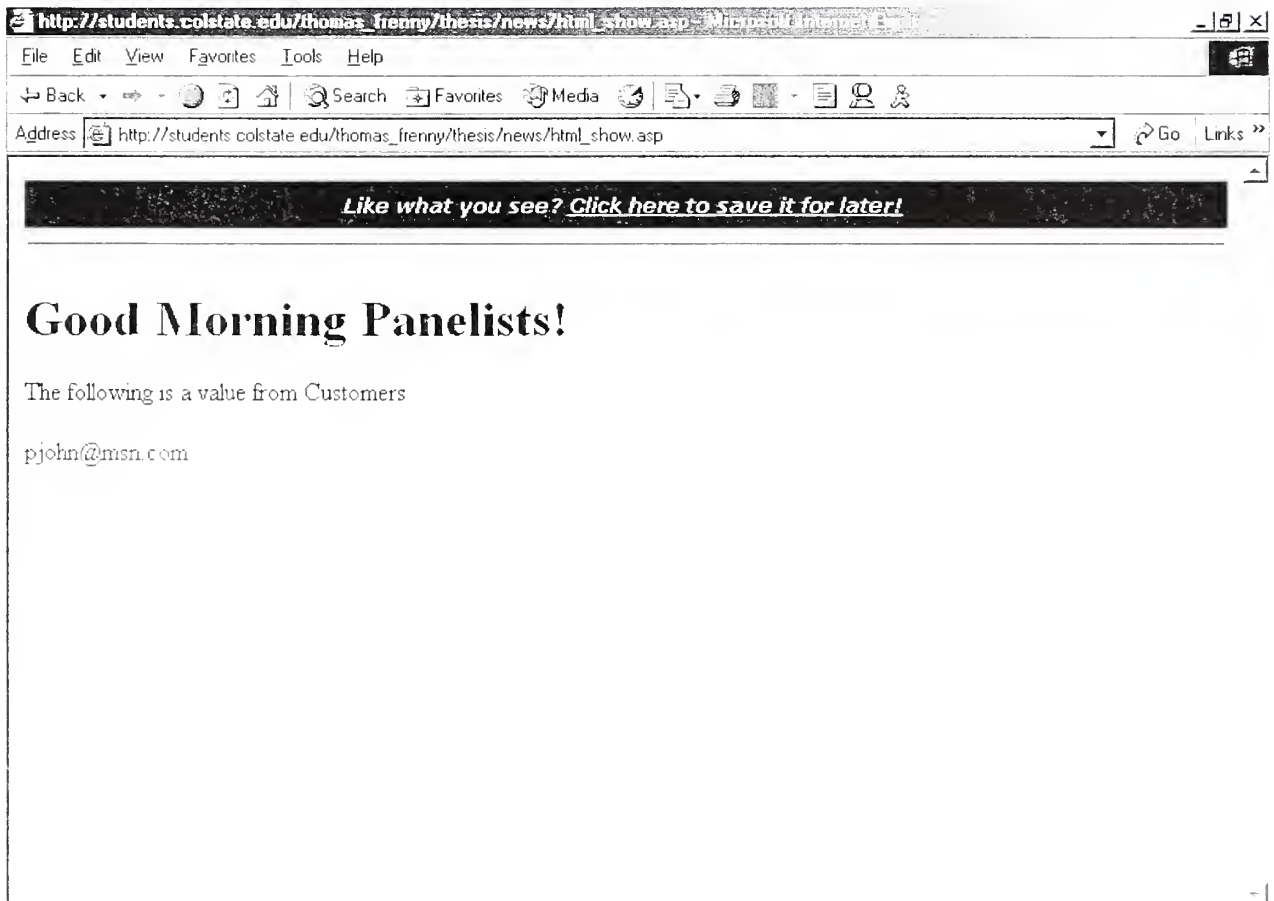
```
<html>
<body>
<h1>Good Morning Panelists!</h1>
<p>The following is a value from Customers
<p><font color="purple"><#Customers||Email||LName='John'></font>
</body>
</html>
```

Browse...

If you do not see a "Browse" button, your browser does not support attachment.

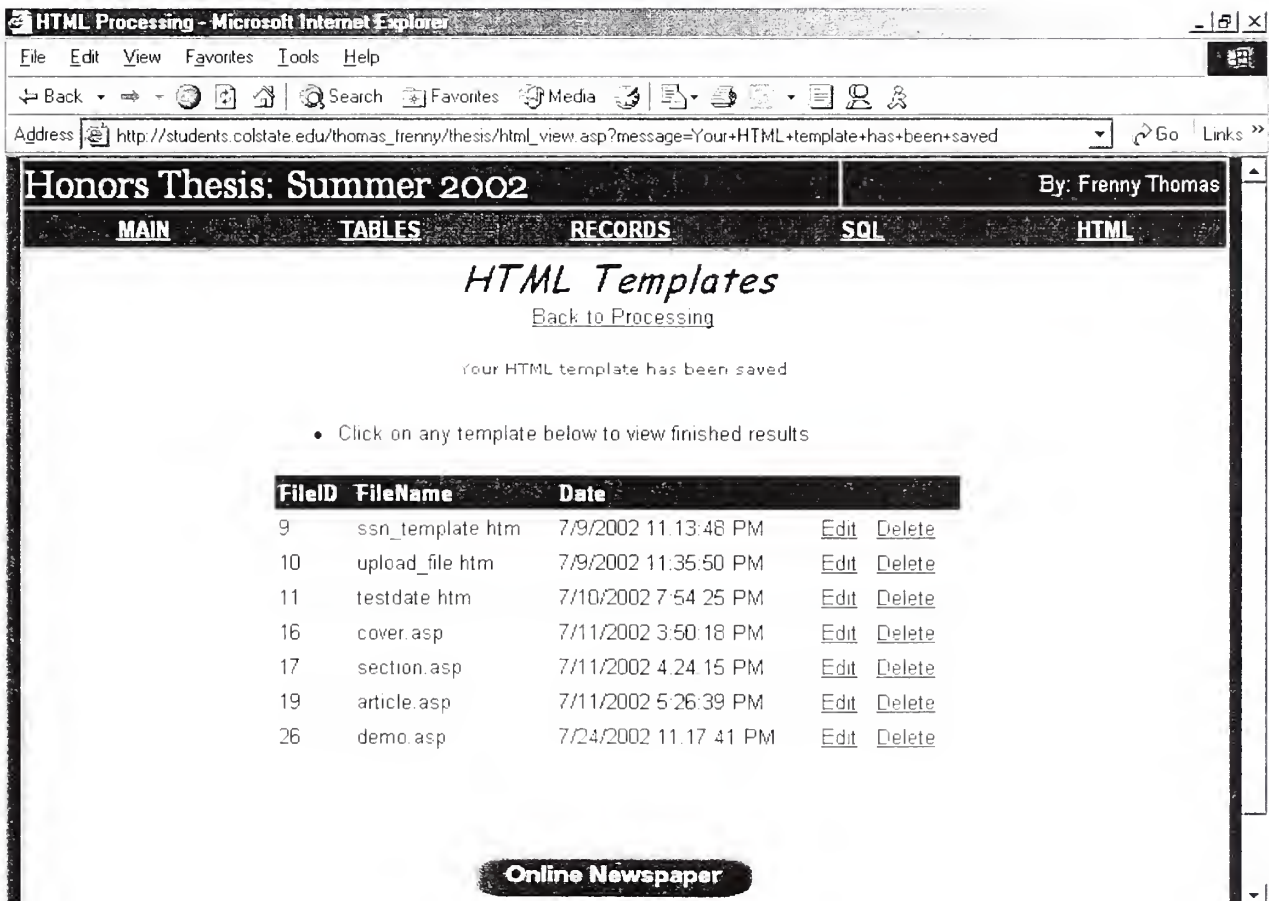
## Step # 15

- A preview of the submitted HTML will be shown on the next page
- Click on the link up top to "Save it for later"



## Step # 16

- A confirmation message will be displayed on the next page
- There will also be a list of all the previously submitted files and their details
- (Notice the "demo.asp" file at the bottom)
- Click on the "Online Newspaper" button to view the fictional newspaper previously generated



The screenshot shows a Microsoft Internet Explorer browser window titled "HTML Processing - Microsoft Internet Explorer". The address bar displays the URL: [http://students.colstate.edu/thomas\\_frenny/thesis/html\\_view.asp?message=Your+HTML+template+has+been+saved](http://students.colstate.edu/thomas_frenny/thesis/html_view.asp?message=Your+HTML+template+has+been+saved). The page content includes a navigation menu with links for MAIN, TABLES, RECORDS, SQL, and HTML. The main heading is "Honors Thesis: Summer 2002" by Frenny Thomas. The page title is "HTML Templates" with a link to "Back to Processing". A confirmation message states "Your HTML template has been saved". Below this, a bullet point instructs the user to click on any template to view finished results. A table lists the following files:

FileID	FileName	Date	Edit	Delete
9	ssn_template htm	7/9/2002 11:13:48 PM	<a href="#">Edit</a>	<a href="#">Delete</a>
10	upload_file htm	7/9/2002 11:35:50 PM	<a href="#">Edit</a>	<a href="#">Delete</a>
11	testdate htm	7/10/2002 7:54:25 PM	<a href="#">Edit</a>	<a href="#">Delete</a>
16	cover.asp	7/11/2002 3:50:18 PM	<a href="#">Edit</a>	<a href="#">Delete</a>
17	section.asp	7/11/2002 4:24:15 PM	<a href="#">Edit</a>	<a href="#">Delete</a>
19	article.asp	7/11/2002 5:26:39 PM	<a href="#">Edit</a>	<a href="#">Delete</a>
26	demo.asp	7/24/2002 11:17:41 PM	<a href="#">Edit</a>	<a href="#">Delete</a>

At the bottom of the page, there is a button labeled "Online Newspaper".

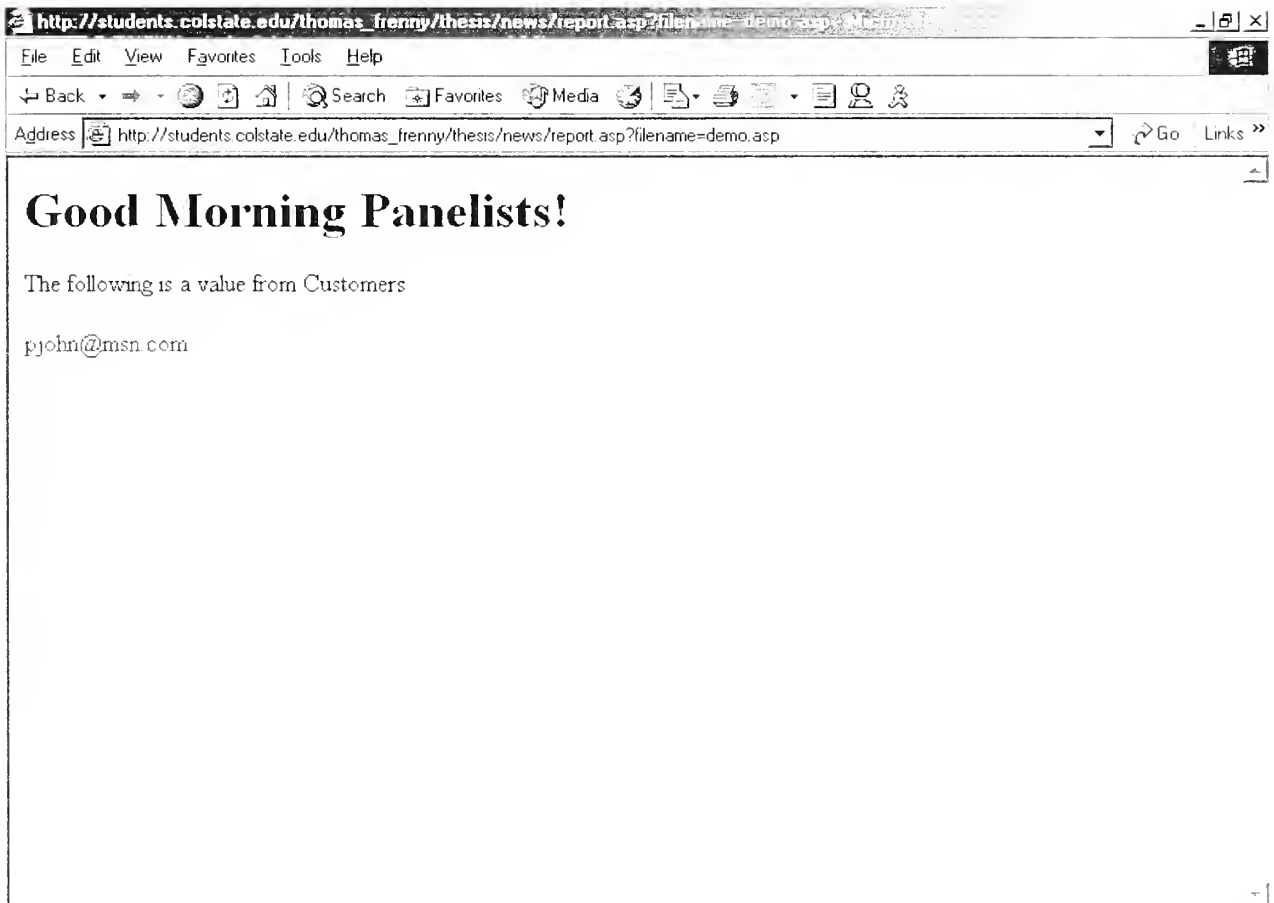
## Step # 17

- The cover page of the *Cougar Report* will be displayed
- Click on the "demo.asp" link on the left navigational bar (it had been previously hard-coded into the cover page)

The screenshot shows a Microsoft Internet Explorer browser window. The title bar reads "The Cougar Report - Microsoft Internet Explorer". The address bar contains the URL: `http://students.colstate.edu/thomas_frenny/thesis/news/report.asp?filename=cover.asp`. The website content features a large, stylized "The Cougar Report" header. Below the header, there is a "Sections" menu on the left with links for "U.S. News", "Sports", "Arts", "Movies", "Business", "Opinion", and "Demo". The main content area displays "Today's date is: 7/24/2002" and a "Welcome" message: "Welcome to The Cougar Report! This online newspaper is completely fictional and does not contain any up-to-date news. The articles and sections you see on this site were originally retrieved from `http://www.winslowaznews.com` on July 10, 2002. The authors of these fictional articles are also not valid." Below this, it states: "For those curious, this website was made completely through the HTML processing service found on my Honors Thesis. By using tags such as: `Articles||Title||ScheduledDate=#7/24/2002#` and `'article.asp&pageid=*URL.sectionid*'`". It concludes with the instruction: "Begin your browsing by selecting a section on the left bar".

## Step # 18

- The recently created "demo.asp" file will be displayed with current information from the "Customers" table





## Step # 19

- Click on the "Sports" section to view all the authors and their articles within this category

The Cougar Report: Sports - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media Print Copy Paste

Address [http://students.colstate.edu/thomas\\_frenny/thesis/news/report.asp?filename=section.asp&pageid=2](http://students.colstate.edu/thomas_frenny/thesis/news/report.asp?filename=section.asp&pageid=2) Go Links

# The Cougar Report

Sections Today's date is: 7/24/2002 [Welcome](#)

- [U.S. News](#)
- [Sports](#)**
- [Arts](#)
- [Movies](#)
- [Business](#)
- [Opinion](#)

## Sports Section

Below is a list of all our staff writers. Any published articles in the current issue will appear underneath the author's name. Click on the Article headline to read it's contents.

**Joe Bloe**  
[As Joe Sees It](#)

**Davy Jones**  
[At home on the plains](#)

**Lana Lawson**  
[Diamondbacks Review](#)

**Steve Martin**  
[Things going A's way](#)

**Barbara Walters**  
[Beeson changes uniforms, again](#)

## Step # 20

- Click on any one of the article titles to read the content and view (if any) accompanying photos

The Cougar Report: Sports: An encore performance? Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Media Print Mail News RSS Feeds

Address [http://students.colstate.edu/thomas\\_frenny/thesis/news/report.asp?filename=article.asp&authorid=7&pageid=2&articleid=4](http://students.colstate.edu/thomas_frenny/thesis/news/report.asp?filename=article.asp&authorid=7&pageid=2&articleid=4) Go Links

# The Cougar Report

Sections Today's date is: 7/24/2002 [Welcome](#)

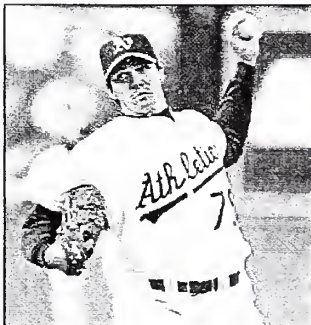
- [U.S. News](#)
- [Sports](#)
- [Arts](#)
- [Movies](#)
- [Business](#)
- [Opinion](#)

## An encore performance?

By Peter Jennings

7/11/2002 - 8/2/2002

OAKLAND -- After closing the first half of the regular season with seven straight one-run games, the A's could use a few days off before they attempt to duplicate their second-half heroics of last season. "It's been a tough week, but it's been a tough season," All-Star left-hander Barry Zito said. "It's a good time for everybody to get some time off." After a three-day break to relax and recharge while Zito and shortstop Miguel Tejada go to Milwaukee for the All-Star Game, the A's seem destined for another exciting playoff chase. They got in shape for it last



## References

- Able Consulting, Inc. (2002, June 1). Retrieved July 8, 2002, from <http://www.ableconsulting.com/tech.htm>
- ADOX Object Model. (n.d.). Retrieved June 5, 2002, from <http://msdn.microsoft.com/library/en-us/ado270/htm/admscobjectmodel.asp?frame=true>
- Balaji, R., & Mitchell, S. (n.d.). Working with ADOX. 4GuysFromRolla.com. Retrieved May 20, 2002, from <http://www.4guysfromrolla.com/webtech/013101-1.shtml>
- Buser, D., Kauffman, J., Llibre, J. T., Francis, B., Sussman, D., Ullman, C., & Duckett, J. (1999). Beginning Active Server Pages 3.0. Acocks Green: Birmingham.
- McManus, J. P. (June 1999). Ease Data Access with ADOX. DevX. Retrieved July 1, 2002, from <http://www.devx.com/upload/free/features/vbj/1999/06jun99/jm0699/jm0699.asp>
- Moten, L. (2001, January 13). Upload File without COM. Planet-Source-Code.com. Retrieved June 15, 2002, from <http://www.planet-source-code.com/vb/scripts/ShowCode.asp?lngWId=4&txtCodeId=6447>
- Pozadzides, J., & Quinn, L. (1997). Cascading Style Sheets. WDG: Web Design Group. Retrieved July 5, 2002, from <http://www.htmlhelp.com/reference/css>
- Rahmel, D. (1999). Database Programming with Visual Basic 6 in 24 hours. Indianapolis, IN: Sams Publishing.
- Wilkinson, B. (2000, October 16). How can I retrieve the fields in my form in the order they appear in the form?. 4GuysFromRolla.com. Retrieved June 20, 2002, from <http://www.aspfaqs.com/aspfaqs/ShowFAQ.asp?FAQID=64>
- \*\*Cougar Report articles Retrieved July 10, 2002, from <http://www.winslowaznews.com>

*Design and Implementation of an Online Database Panel*

by

*Frenny Thomas*

A Thesis Submitted in Partial Fulfillment of  
Requirements of the CSU Honors Program

For Honors in the degree of  
*Bachelor of Science*  
in  
*Computer Science,*  
*College of Science,*  
*Columbus State University*

Thesis Advisor *Stan Kerkovany*

Date *7/22/02*

Committee Member *Burley W. Wright*

Date *7-22-02*

Committee Member *Bhagyavati*

Date *7-22-02*

CSU Honors Committee Member *W. J. ...*

Date *7-22-02*

Coordinator, Honors Program *Barbara J. Hunt*

Date *7/22/02*



