Final Project Documentation

Software Engineering

CSCI 4320

04/19/2022

Jarred Johnson

Fort Valley State University

Table of Contents

Tables

Table view in phpMyAdmin:

	advisorID	lastName	firstName	initials	jobTitle	department
Edit Copy Delete	123456	Yousif	Nabil	NY	Professor	Computer Science
Edit Copy Delete	222111	Haywood	Jerry	JH	Professor	Psychology
Edit Copy Delete	232527	Graves	Jamari	JG	Emperor	Emperor's Office
Edit Copy Delete	292725	Wilder	Destiny	DW	Empress	Emperor's Office

	coursePrefix	courseName	creditHours
Edit Copy Delete	CSCI 3351	Assembly Language	3
Edit Copy Delete	CSCI 4320	Software Engineering	3
Edit Copy Delete	CSIS 3743	Web Development	3
Edit Copy Delete	FODD 1000	Introduction to Fodder	1
Edit Copy Delete	PSYC 1101	General Psychology	3

	gradeID	studentID	coursePrefix	semester	grade
Edit Copy Delete	1	910193557	CSCI 4320	Fall	91.00
Edit Copy Delete	2	910193557	CSCI 3351	Fall	92.98
Edit Copy Delete	3	910193557	CSIS 3743	Fall	90.49
Edit Copy Delete	4	999111222	CSCI 4320	Fall	75.97
Edit Copy Delete	5	999111222	CSCI 3351	Fall	79.00
Edit Copy Delete	6	999111222	CSIS 3743	Fall	81.86
Edit Copy Delete	7	446655881	CSCI 4320	Fall	70.06
Edit Copy Delete	8	260602696	CSCI 4320	Fall	78.04

	studentID	lastName	firstName	initials	major	classification	advisorID
Edit Copy Delete	000000000	Fodder	John	JF	Interior Design	Freshman	123456
Edit Copy Delete	062306236	James	Lebron	LBJ	Sports Management	Junior	232527
Edit Copy Delete	071319692	Slocum	Sabrina	SS	Business Administration	Multi-Year Senior	292725
Edit Copy Delete	111222333	Morant	Ja	JM	Sports Management	Sophomore	232527
Edit Copy Delete	196900117	Johnson	Larry	LJ	Business Management	Multi-Year Senior	232527
Edit Copy Delete	260602696	Clark	Arianna	AC	Interior Design	Multi-Year Senior	292725
Edit Copy Delete	272325	Wilder	Vontae	VW	Computer Science	Senior	232527
Edit Copy Delete	334455668	Goods	Megan	MG	Cosmetology	Sophomore	292725
Edit Copy Delete	426684753	Clarke	Caitlin	CC	Chemistry	Sophomore	123456
Edit Copy Delete	446655881	Doo	Scooby	SD	Animal Science	Freshman	123456
Edit Copy Delete	456123987	Thompson	Tessa	TT	Electrical Engineering	Freshman	292725
Edit Copy Delete	493943759	Parrish	Serentiy	SP	SP	Freshman	123456
Edit Copy Delete	617687946	Brown	Aliyah	AB	Education	5th Year Senior	222111
Edit Copy Delete	753951486	Ashford	Robby	RA	Journalism	Sophomore	222111
Edit Copy Delete	910193557	Johnson	Jarred	JJ	Computer Science	5th Year Senior	232527
Edit Copy Delete	999111222	Mahomes II	Patrick	PM	Communications	Junior	222111

Queries

Query advisor information, both individual view and full table view. The individual view also retries all the students that are being advised by said advisor.

Form View:

SQL View:

```
$sql = "SELECT * FROM advisor WHERE advisorID = ?";
```

```
$sql = "SELECT studentID, lastName, firstName, major,
        classification FROM student WHERE advisorID = ?";
```

Another query that joins columns from more than one table. Displays course information from the course table along with grade information from the grade table as well as information from the student table.

Form View:

Search Result

Grade ID	Last Name	First Name	Major	Student ID	Course Prefix	Course Name	Semester	Grade	Credit Hours
1	Johnson	Jarred	Computer Science	910193557	CSCI 4320	Software Engineering	Fall	91.00	3
4	Mahomes II	Patrick	Communications	999111222	CSCI 4320	Software Engineering	Fall	75.97	3
7	Doo	Scooby	Animal Science	446655881	CSCI 4320	Software Engineering	Fall	70.06	3
8	Clark	Arianna	Interior Design	260602696	CSCI 4320	Software Engineering	Fall	0.00	3

Do Another Search?

Return To Search Form

Return to Main Menu

SQL View:

```
$sql = "SELECT student.lastName, student.firstName, student.major, grade.studentID,
    course.coursePrefix, course.courseName, grade.semester, grade.grade,
    course.creditHours FROM student JOIN grade ON student.studentID = grade.studentID
    JOIN course ON course.coursePrefix = grade.coursePrefix WHERE grade.coursePrefix = ?";
```

Main Menu Form:

Add Forms:

Student Information

Student ID Number:

Student First Name:

Student Last Name:

Student Initials:

Student's Major:

Student's Classification:

Advisor ID:

Submit Information

Advisor Information

Advisor's ID Number:

Advisor's First Name:

Advisor's Last Name:

Advisor's Initials:

Advisor's Job Title:

Advisor's Department:

Submit Information

Course Information

Course Prefix:

Course Name:

Credit Hours:

[⌄]

Submit Information

Grade Information

Student ID:

Course Name:
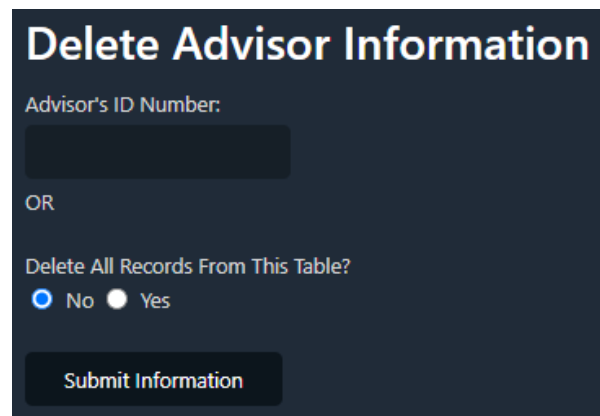
Semester:
● Fall ● Spring ● Summer

Grade:

Submit Information

Delete Forms:

Delete advisor information:
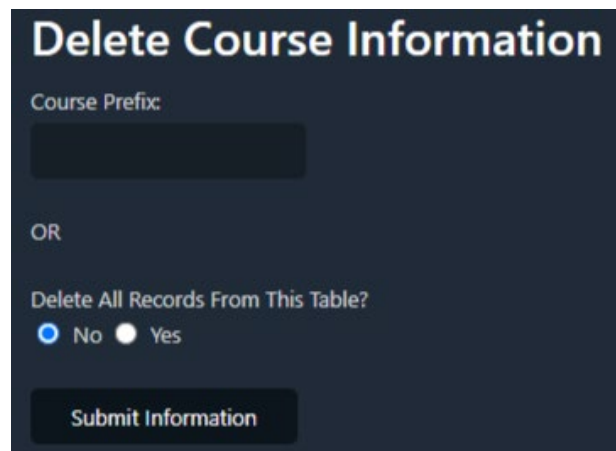
Delete Advisor Information

Advisor's ID Number:

OR

Delete All Records From This Table?
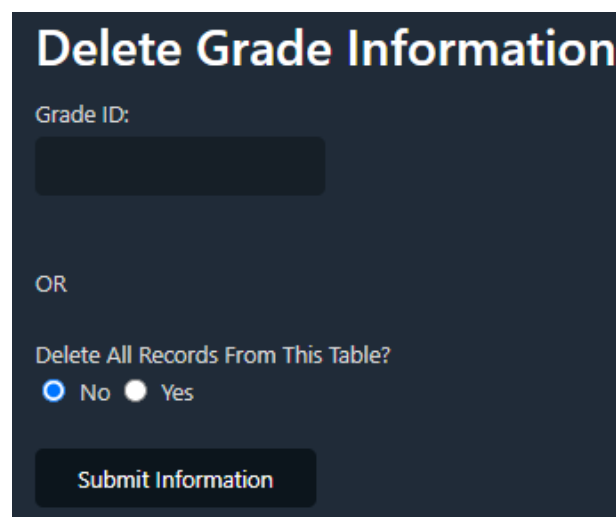◉ No ● Yes

Submit Information

Delete course information:

Delete Course Information

Course Prefix:

OR

Delete All Records From This Table?
◉ No ● Yes

Submit Information

Delete grade information:

Delete Grade Information

Grade ID:

OR

Delete All Records From This Table?
◉ No ● Yes

Submit Information

Delete student information:

Delete Student Information

Student ID:

OR
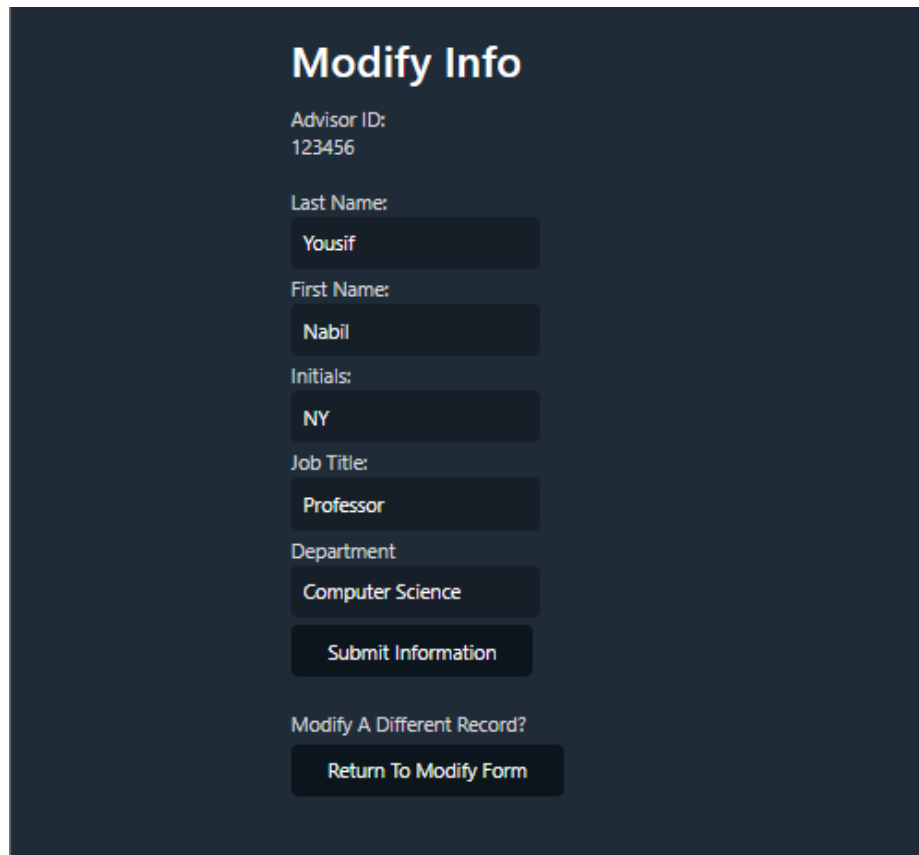
Delete All Records From This Table?

◉ No ○ Yes

Submit Information

Modify Forms:

Modify advisor information:

Modify Info

Advisor ID:
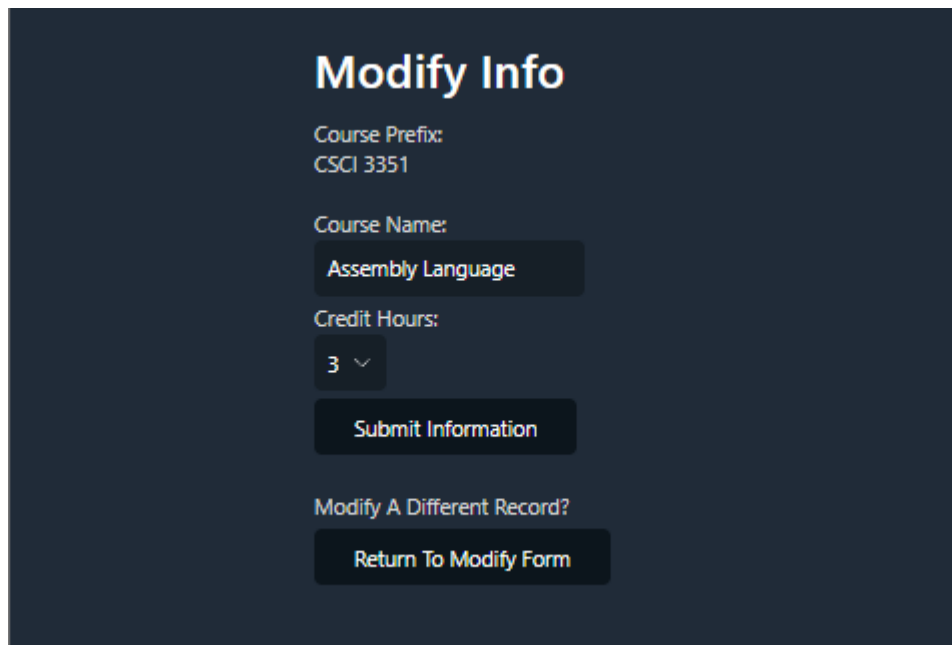123456

Last Name:
Yousif

First Name:
Nabil

Initials:
NY

Job Title:
Professor

Department
Computer Science

Submit Information

Modify A Different Record?
Return To Modify Form

Modify course information:

Modify Info

Course Prefix:
CSCI 3351

Course Name:
Assembly Language

Credit Hours:
3

Submit Information

Modify A Different Record?
Return To Modify Form

Modify grade information:

Modify student information:
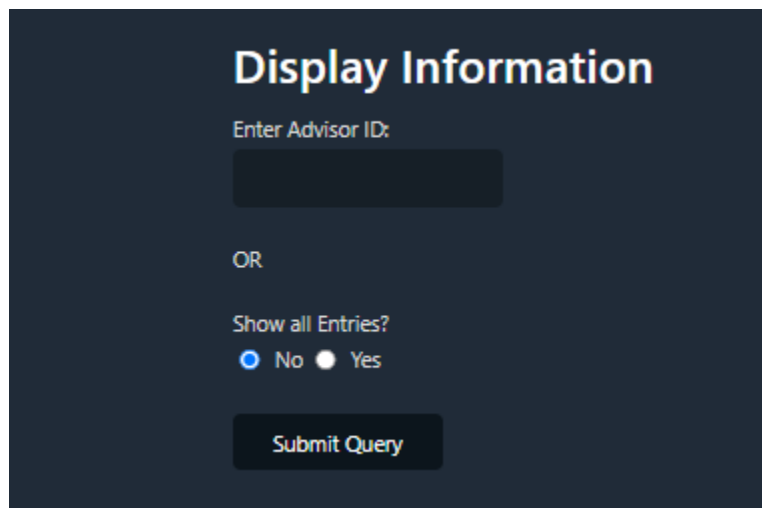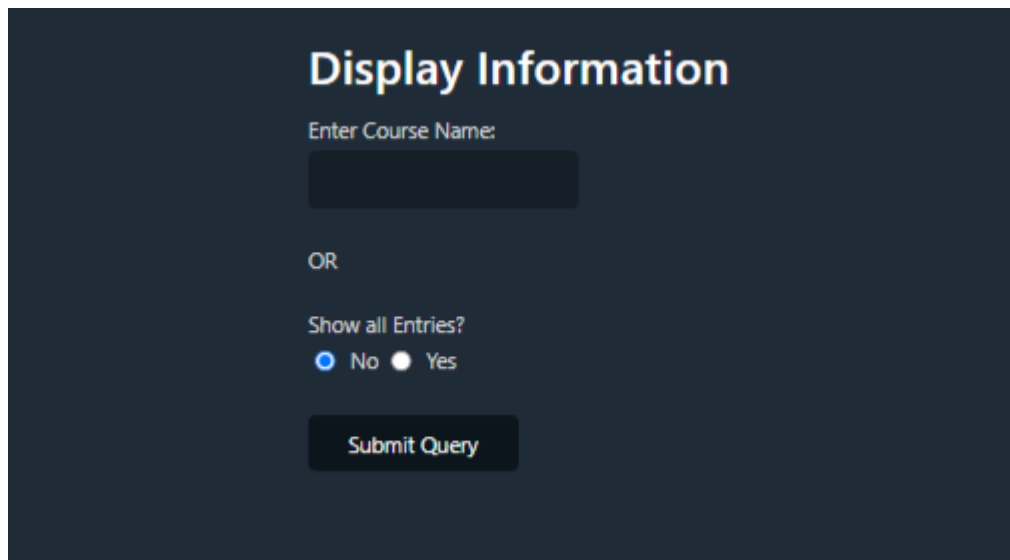
Display (Query) Forms:

Display advisor Info:

Display course info:

Display grade info:

Display student info:

Reports

View an advisor and the students they advise:

Search Result

Advisor's Info:

Advisor ID	Last Name	First Name	Initials	Job Title	Department
123456	Yousif	Nabil	NY	Professor	Computer Science

Students advised by this advisor:

Student ID	Last Name	First Name	Major	Classification
000000000	Fodder	John	Interior Design	Freshman
426684753	Clarke	Caitlin	Chemistry	Sophomore
446655881	Doo	Scooby	Animal Science	Freshman
493943759	Parrish	Serentiy	SP	Freshman

Do Another Search?

Return To Search Form

Return to Main Menu

View a course and all the students that have taken said course:

Search Result

Grade ID	Last Name	First Name	Major	Student ID	Course Prefix	Course Name	Semester	Grade	Credit Hours
1	Johnson	Jarred	Computer Science	910193557	CSCI 4320	Software Engineering	Fall	91.00	3
4	Mahomes II	Patrick	Communications	999111222	CSCI 4320	Software Engineering	Fall	75.97	3
7	Doo	Scooby	Animal Science	446655881	CSCI 4320	Software Engineering	Fall	70.06	3
8	Clark	Arianna	Interior Design	260602696	CSCI 4320	Software Engineering	Fall	0.00	3

Do Another Search?

Return To Search Form

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Table Relationships