Merriest College Database User's Guide

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About This Guide

This Guide is for administrators and users of Merriest College Database which explains how to get the required information.

The following related documents for Merriest College Database are available:

- User's guide which describe the basic operations that can be done on the database.
- Instructions on how to get the information for a particular faculty or particular department or particular student by executing the appropriate query with the appropriate input.
- Instructions on how to insert, delete and update the information.
- Instructions for displaying the predefined reports.

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Chapter 1 General Navigation Information

1. Opening the database:

- For opening the database, the user has to just double click on the database file.
- When the database opens then the user is automatically navigates to the main menu through which the desired operations can be performed.

2. Main Menu Form:

• In this form, the user will be provided options or buttons through which he can navigate to the desired form or report. As shown in the figure below, there are three important parts: Tables, Queries & Reports. The user has to select the desired option and click the button given in front of it. This will open the form corresponding to that query, report or table.

<u>Merriest College</u>

MAIN MENU



3. GOTO MAIN MENU BUTTON:

- Every form or report in this application has this button as shown in the picture below.
- Whenever the user desires to navigate to another form or report then he has to click on this button first given at the bottom of the current form.
- The user will go to the main form from where the user can select the required form or report.

GOTO MAIN MENU

4. Exit Button:

• If the user wants to exit or close the entire database then the user has to click a cross button as shown in the figure below on the right-top corner of the current form.



• When the user clicks on this button the whole application exits.

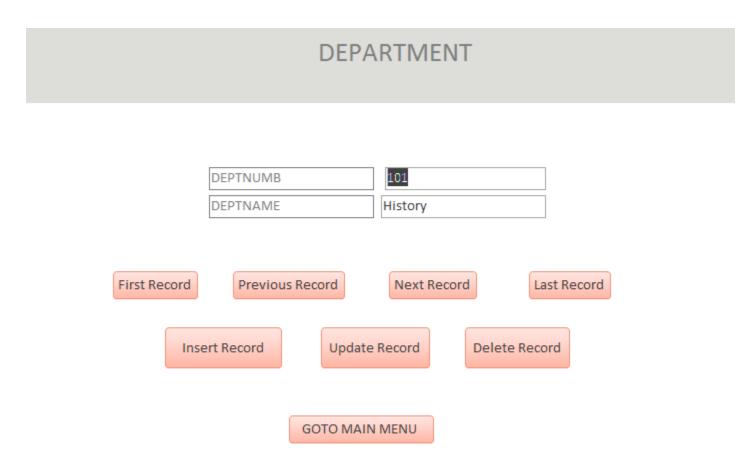
Chapter 2 Forms

1. Course form.



- Navigate to the next, previous, first and last record.
- Insert, update or remove the course.
- Also when the user clicks on the GOTO MAIN MENU button then he can goto the main menu form.
- For inserting the record, the user has to first click the insert button which clears all the fields. After that the user has to enter the new values & click the insert record button again.
- For updating the record, the user has to make sure that the record to be update is displayed in the fields then the user can update the information & click the Update record button.
- For deleting the record, the user has to make sure that the record to be deleted is displayed in the fields then the user can delete the information by clicking the Delete record button.

2. Department form.



- Navigate to the next, previous, first and last record.
- Insert, update or remove the department.
- Also when the user clicks on the GOTO MAIN MENU button then he can goto the main menu form.
- For inserting the record, the user has to first click the insert button which clears all the fields. After that the user has to enter the new values & click the insert record button again.
- For updating the record, the user has to make sure that the record to be update is displayed in the fields then the user can update the information & click the Update record button.
- For deleting the record, the user has to make sure that the record to be deleted is displayed in the fields then the user can delete the information by clicking the Delete record button.

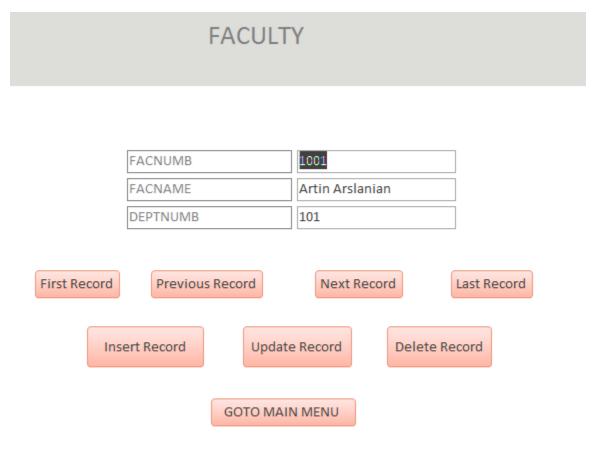
3. Faculty course form.

FACULTY COURSE



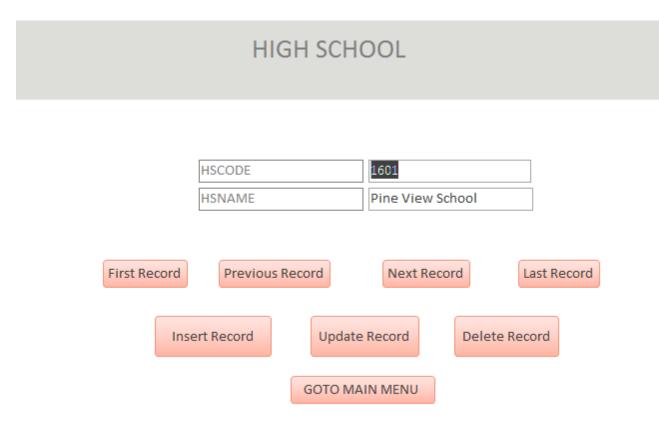
- Navigate to the next, previous, first and last record.
- Insert, update or remove the faculty & the related course.
- Also when the user clicks on the GOTO MAIN MENU button then he can goto the main menu form.
- For inserting the record, the user has to first click the insert button which clears all the fields. After that the user has to enter the new values & click the insert record button again.
- For updating the record, the user has to make sure that the record to be update is displayed in the fields then the user can update the information & click the Update record button.
- For deleting the record, the user has to make sure that the record to be deleted is displayed in the fields then the user can delete the information by clicking the Delete record button.
- **NOTE**: If the faculty record in faculty table or course record in the course table is deleted then the all the records in faculty course related to that record will also be deleted (called cascade).

4. Faculty form.



- Navigate to the next, previous, first and last record.
- Insert, update or remove the faculty.
- Also when the user clicks on the GOTO MAIN MENU button then he can goto the main menu form.
- For inserting the record, the user has to first click the insert button which clears all the fields. After that the user has to enter the new values & click the insert record button again.
- For updating the record, the user has to make sure that the record to be update is displayed in the fields then the user can update the information & click the Update record button.
- For deleting the record, the user has to make sure that the record to be deleted is displayed in the fields then the user can delete the information by clicking the Delete record button.

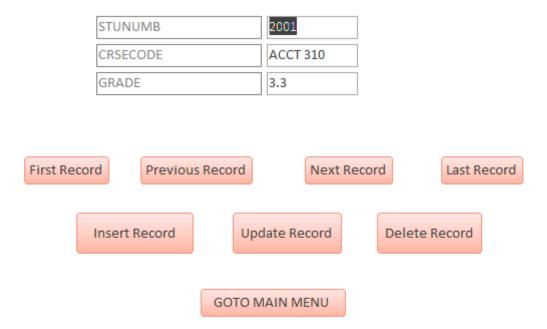
5. High school form.



- Navigate to the next, previous, first and last record.
- Insert, update or remove the high school.
- Also when the user clicks on the GOTO MAIN MENU button then he can goto the main menu form.
- For inserting the record, the user has to first click the insert button which clears all the fields. After that the user has to enter the new values & click the insert record button again.
- For updating the record, the user has to make sure that the record to be update is displayed in the fields then the user can update the information & click the Update record button.
- For deleting the record, the user has to make sure that the record to be deleted is displayed in the fields then the user can delete the information by clicking the Delete record button.

6. Student Course form.

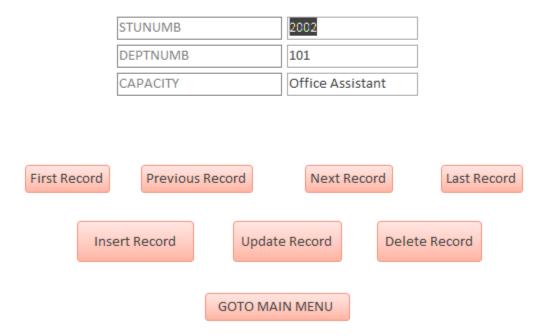
STUDENT COURSE



- Navigate to the next, previous, first and last record.
- Insert, update or remove the student & the related course.
- Also when the user clicks on the GOTO MAIN MENU button then he can goto the main menu form.
- For inserting the record, the user has to first click the insert button which clears all the fields. After that the user has to enter the new values & click the insert record button again.
- For updating the record, the user has to make sure that the record to be update is displayed in the fields then the user can update the information & click the Update record button.
- For deleting the record, the user has to make sure that the record to be deleted is displayed in the fields then the user can delete the information by clicking the Delete record button.
- NOTE: A student record cannot be deleted if he is referenced here.

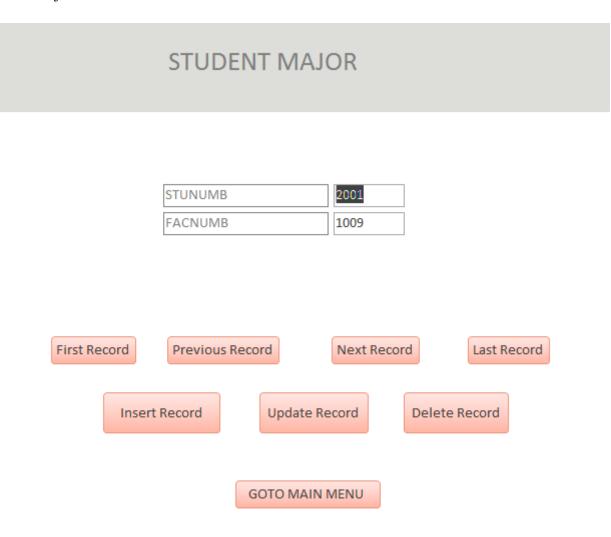
7. Student Department form.

STUDENT DEPARTMENT



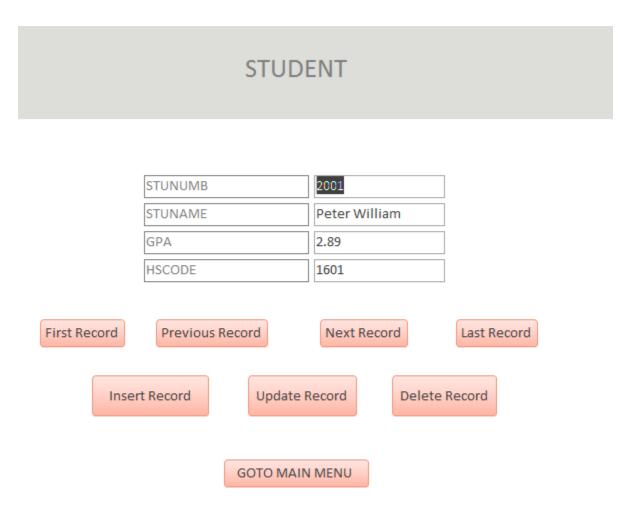
- Navigate to the next, previous, first and last record.
- Insert, update or remove the student & the related department.
- Also when the user clicks on the GOTO MAIN MENU button then he can goto the main menu form.
- For inserting the record, the user has to first click the insert button which clears all the fields. After that the user has to enter the new values & click the insert record button again.
- For updating the record, the user has to make sure that the record to be update is displayed in the fields then the user can update the information & click the Update record button.
- For deleting the record, the user has to make sure that the record to be deleted is displayed in the fields then the user can delete the information by clicking the Delete record button.
- **NOTE**: If the student record in student table or department record in the department table is deleted then the all the records in student department related to that record will also be deleted.

8. Student Major form.



- Navigate to the next, previous, first and last record.
- Insert, update or remove the student's major.
- Also when the user clicks on the GOTO MAIN MENU button then he can goto the main menu form.
- For inserting the record, the user has to first click the insert button which clears all the fields. After that the user has to enter the new values & click the insert record button again.
- For updating the record, the user has to make sure that the record to be update is displayed in the fields then the user can update the information & click the Update record button.
- For deleting the record, the user has to make sure that the record to be deleted is displayed in the fields then the user can delete the information by clicking the Delete record button.
- **NOTE**: The faculty information in the faculty table or student information in the student table cannot be deleted if the record is referenced in this table.

9. Student form.



- Navigate to the next, previous, first and last record.
- Insert, update or remove the student.
- Also when the user clicks on the GOTO MAIN MENU button then he can goto the main menu form.
- For inserting the record, the user has to first click the insert button which clears all the fields. After that the user has to enter the new values & click the insert record button again.
- For updating the record, the user has to make sure that the record to be update is displayed in the fields then the user can update the information & click the Update record button.
- For deleting the record, the user has to make sure that the record to be deleted is displayed in the fields then the user can delete the information by clicking the Delete record button.

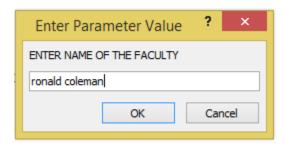
Chapter 3 Queries

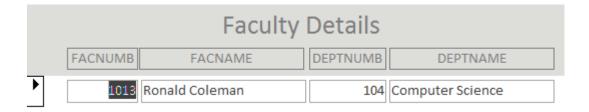
1. List the contents of each table.

COURSE DETAILS						
DEPARTMENT	CRSECODE	CRSEDESC	NUMBCRED			
	ACCT 310	Cost Accounting	3			
FACULTY COURSE	ACCT 401	Advanced Accounting	3			
	ACCT 402	Auditing	3			
FACULTY	ACCT 403	Tax 1	3			
HIGH SCHOOL	BIOL 130	General Biology 1	3			
1113113611362	BIOL 131	General Biology 2	3			
STUDENT COURSE	BIOL 211	Plant Biology	3			
	BIOL 320	Genetics	3			
STUDENT	CMPT 220	Software Development	4			
STUDENT DEPARTMENT	CMPT 307	Internetworking	4			
	CMPT 308	Database Management	4			
STUDENT MAJOR	(GOTO MAIN MENU				
		GOTO WATN WENO				

- This form is opened when the user clicks on button given to the first query.
- This form lists all the information present in the database. As shown in the above image user is provided tabs on the left side in vertical order through which user can get the information as per his requirement by clicking on the appropriate tab.

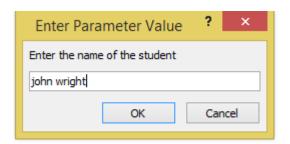
2. Get details of the given faculty.

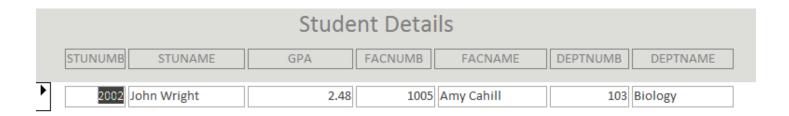




- This form is opened when the user clicks on button given to the second query.
- When the user navigates to this form, he is prompted for input about faculty name. After providing the faculty name, the user gets all the information about that particular faculty.
- For a given faculty name, this query lists the number and name with the number and name of the department to which the faculty member is assigned.

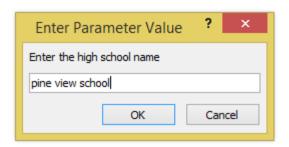
3. Get details of the given student.

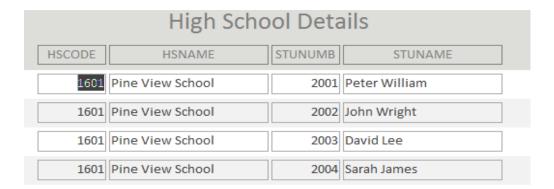




- This form is opened when the user clicks on button given to the third query.
- When the user navigates to this form, he is prompted for input about student name. After providing the student name, the user gets all the information about that particular student.
- For a given student name, this query lists the number, name and the GPA. In addition, for each major the student has, it lists the number and name of the student's advisor and the number and name of the department in which the student is majoring.

4. Get the details of the given high school and current Merriest student details graduated from that school.

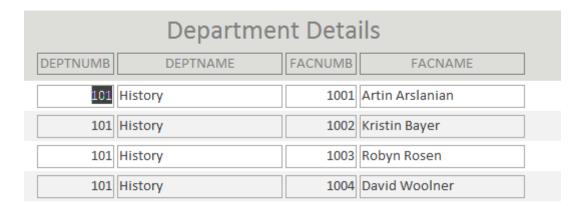




- This form is opened when the user clicks on button given to the forth query.
- When the user navigates to this form, he is prompted for input about high school name. After providing the school name, the user gets all the information about that particular high school.
- For a given high school, this query lists the code and the name with the number and name of all the students at Merriest College who graduated from the high school.

5. Get the details of the given department along with the faculties.





- This form is opened when the user clicks on button given to the fifth query.
- When the user navigates to this form, he is prompted for input about department name. After providing the department name, the user gets all the information about that particular department.
- For a given department name, this query gives the number and name with the number and name of all the faculty members assigned to the department.

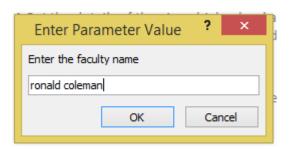
6. Get the student details who work for the given department.





- This form is opened when the user clicks on button given to the sixth query.
- When the user navigates to this form, he is prompted for input about department name. After providing the department name, the user gets all the information about that particular department.
- For a given department name this query lists the number and name with all the students who work for the department and the capacity in which each works. Here capacity states the various types of jobs the student is assigned to.

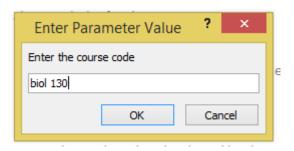
7. Get the student details advised by the given faculty.

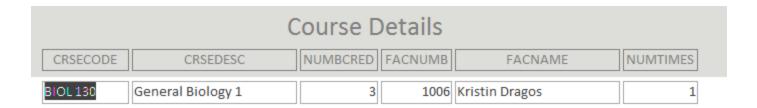


Stu	udent's F	aculty Advisor	
FACNUMB FACNAME	STUNUMB	STUNAME	GPA
1013 Ronald Coleman	2003 D	David Lee	3.5
1013 Ronald Coleman	2008 K	uan Yen	3.82
1013 Ronald Coleman	2021 N	lathan Jackson	2.99
1013 Ronald Coleman	2024 S	teve Turner	2.77

- This form is opened when the user clicks on button given to the seventh query.
- When the user navigates to this form, he is prompted for input about faculty name. After providing the faculty name, the user gets all the information about that particular faculty.
- For a given faculty name, this query lists the number and name with the numbers, names and GPAs of all the students advised by the faculty member.

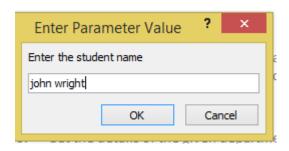
8. Get the details of the given course along with the assigned professors.

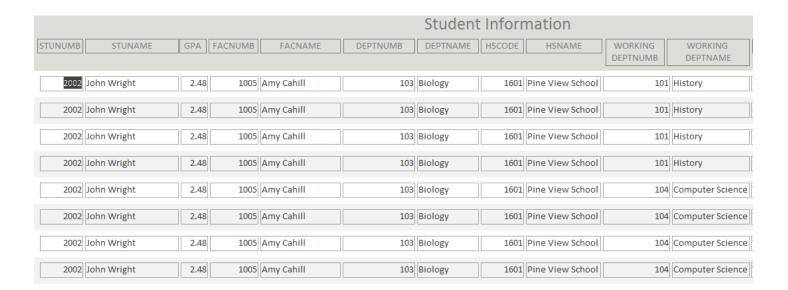




- This form is opened when the user clicks on button given to the eighth query.
- When the user navigates to this form, he is prompted for input about course code. After providing the course code, the user gets all the information about that particular course.
- For a given course name, the query lists the course code, description, and number of credits offered by the course. In addition, for each faculty member who has taught the course, it lists the number and name of the faculty member with the number of times the faculty member has taught the course.

9. Get the full information of the given student.





GOTO MAIN MENU

When the user navigates to this form, he is prompted for input about student name. After providing the student name, the user gets all the information about that particular student.

For a given student name, the query lists the number, name, and GPA of the student with:

- The number and name of the student's advisor(s).
- The number and name of each of the departments in which the student is majoring.
- The number and name of the high school from which the student graduated.
- For each department in which the student is working, list the number, the name, and the capacity in which the student works for the department.
- For each course the student has taken, list the number, description, number of credits, and the grade received.

Chapter 4 Reports

1. Get details of the each student.

REPORT: Get details of the each student.

STUNUMB	STUNAME	GPA	FACNUMB	FACNAME	DEPTNUMB
2001	Peter William	2.89	1009	Kenneth Coletti	102
2002	John Wright	2.48	1005	Amy Cahill	103
2003	David Lee	3.5	1013	Ronald Coleman	104
2004	Sarah James	3.11	1001	Artin Arslanian	101
2005	Shiori Toyama	3.6	1017	Tracey Mcgrail	105
2006	Brandon Lee	3.74	1006	Kristin Dragos	103
			1010	Cynthia Krom	102
2007	Keyna Zeiglar	2.6	1005	Amy Cahill	103
			1011	Dori Lombard	102
2008	Kuan Yen	3.82	1013	Ronald Coleman	104
			1017	Tracey Mcgrail	105
2009	Eric Seltzer	2.58	1014	Robert Cannistra	104
			1018	Stewart Edison	105

- When the user clicks the generate button corresponding to first report, he gets the report as shown above.
- The report contains the fields which includes: student number, student name, GPA, faculty number, faculty name, department number.

2. Get the details of the each department along with the faculties.

REPORT: Get the details of the each department along with the faculties.

DEPTNUMB	DEPTNAME	FACNUMB	FACNAME
101	History	1001	Artin Arslanian
		1002	Kristin Bayer
		1003	Robyn Rosen
			I
		1004	David Woolner
102	Accounting	1000	Kenneth Coletti
102	Accounting	1009	Kenneth Coletti
		1010	Cunthia Kram
		1010	Cynthia Krom

- When the user clicks the generate button corresponding to second report, he gets the report as shown above.
- The report contains the fields which includes: department number, department name, faculty number, faculty name.

3. Get the details of the each course along with the assigned professors.

REPORT:Get the details of the each course along with the assigned professors.

CDCEC	ODE	CREEDESC	NUMBER	FACALLINAD	FACNIANAE
CRSEC	ODE	CRSEDESC	NUMBCRED	FACNUMB	FACNAME
ACCT 4	101	Advanced Accounting	3	1012	Satina Williams
ACCT 4	102	Auditing	3	1009	Kenneth Coletti
ACCT 4	103	Tax 1	3	1010	Cynthia Krom
			1011	Dori Lombard	
BIOL 13	30	General Biology 1	3	1006	Kristin Dragos
BIOL 13	31	General Biology 2	3	1007	Victoria Ingalls
BIOL 21	11	Plant Biology	3	1008	Raymond Kepner
BIOL 32	20	Genetics	3	1005	Amy Cahill
CMPT 2	220	Software Development	4	1013	Ronald Coleman
CMPT 3	307	Internetworking	4	1014	Robert Cannistra
CMPT 3	308	Database Management	4	1015	Donald Schwartz
CMPT 3	330	System Design	4	1016	Joseph Chaky
HIST 24	48	Medieval Europe	3	1001	Artin Arslanian
HIST 25	52	Modern Europe	3	1003	Robyn Rosen
HIST 26	67	Women in Asia	3	1002	Kristin Bayer
				1004	David Woolner
MATH 2	210	Linear Algebra	3	1017	Tracey Mcgrail
			1018	Stewart Edison	

• When the user clicks the generate button corresponding to third report, he gets the report as shown above. The report contains the fields which includes: course code, course description, number of credits, faculty number, faculty name.

4. Get the full information of every student.

REPORT: Get the full information of every student.

STUNUMB	STUNAME	GPA	FACNUMB	FACNAME	FAC DEPT	DEPTNAME	HSCODE	HSNAME	D.DEPTNUM
2002 Jo	ohn Wright	2.48	1005	Amy Cahill	103	Biology	1601	Pine View School	101
'			1005	Amy Cahill	103	Biology	1601	Pine View School	101
			1005	Amy Cahill	103	Biology	1601	Pine View School	101
			1005	Amy Cahill	103	Biology	1601	Pine View School	104
			1005	Amy Cahill	103	Biology	1601	Pine View School	104
			1005	Amy Cahill	103	Biology	1601	Pine View School	104
			1005	Amy Cahill	103	Biology	1601	Pine View School	104
			1005	Amy Cahill	103	Biology	1601	Pine View School	101
2004 Sa	arah James	3.11	1001	Artin Arslanian	101	History	1601	Pine View School	104
			1001	Artin Arslanian	101	History	1601	Pine View School	104
			1001	Artin Arslanian	101	History	1601	Pine View School	104
			1001	Artin Arslanian	101	History	1601	Pine View School	102
			1001	Artin Arslanian	101	History	1601	Pine View School	102
			1001	Artin Arslanian	101	History	1601	Pine View School	102
			1001	Artin Arslanian	101	History	1601	Pine View School	101
			1001	Artin Arslanian	101	History	1601	Pine View School	101
			1001	Artin Arslanian	101	History	1601	Pine View School	101
			1001	Artin Arslanian	101	History	1601	Pine View School	101

WORKDEPT	CAPACITY	CRSECODE	CRSEDESC
History	Office Assistant	BIOL 131	General Biology 2
History	Office Assistant	BIOL 211	Plant Biology
History	Office Assistant	BIOL 320	Genetics
Computer Science	Technical Support	BIOL 130	General Biology 1
Computer Science	Technical Support	BIOL 131	General Biology 2
Computer Science	Technical Support	BIOL 211	Plant Biology
Computer Science	Technical Support	BIOL 320	Genetics
History	Office Assistant	BIOL 130	General Biology 1
Computer Science	Technical Support	HIST 248	Medieval Europe
Computer Science	Technical Support	HIST 269	Modern Asia
Computer Science	Technical Support	HIST 252	Modern Europe
Accounting	Clerk Typist	HIST 269	Modern Asia
Accounting	Clerk Typist	HIST 267	Women in Asia
Accounting	Clerk Typist	HIST 248	Medieval Europe
History	Teaching Assistant	HIST 269	Modern Asia
History	Teaching Assistant	HIST 248	Medieval Europe
History	Teaching Assistant	HIST 267	Women in Asia
History	Teaching Assistant	HIST 252	Modern Europe
Accounting	Clerk Typist	HIST 252	Modern Europe
Computer Science	Technical Support	HIST 267	Women in Asia
Accounting	Clerk Typist	HIST 248	Medieval Europe
Applied Mathemati	Research Assistant	HIST 252	Modern Europe

- When the user clicks the generate button corresponding to forth report, he gets the report as shown above.
- The report contains the fields which includes: student number, student name, GPA, faculty number, faculty name, faculty department, department name, high school code, high school name, work department, capacity, course code, course description.