Benjamin Nye

CS 4332

Dr. C. J. Hwang

11 Nov. 2021

Project 6

Greendale Community College is a community college located in Greendale County, Colorado. Greendale's IT department is discussing creating a database system in order to keep track of their computers, student records, and faculty records. Being that Greendale is a lower rate community college, they have lacked the budget but after recently acquiring an undisclosed sum of money they are interested in moving their records from Excel. Greendale would like to create 4 tables called ASSET, STUDENT, FACULTY, & DEPARTMENT to hold their computer information, student information, faculty information, and department information.

Here are how the records are stored and formatted in Greendale's Excel sheet. At Greendale, all computers are given a tag number (Formatted TAG#####) and assigned to a location and employee id (Format GF######) when they are deployed. This information is stored in the ASSET sheet. All students at Greendale have a student id (Format GS######), faculty advisor (GF######), Major, classification (1st, 2nd…Year), and GPA. This information is stored in the STUDENT sheet. All faculty at Greendale are assigned an employee id (GF######), a computer (TAG#####), and a department. This information is stored in the FACULTY sheet. Lastly, at Greendale, all Departments have a location associated with them and the information is stored in the DEPARTMENT sheet.

Attached are screenshots of Greendale's Excel database. They hope to create an E/R diagram and implement it to their database so that they may keep a better record of their information, making them a better community college so they can compete with their rivals City College.

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	A	B	C	D	E	F	G
1	TAG	Employee	Location				
2	TAG11170	GF114971	Annex				
3	TAG11458	GF211154	B2				
4	TAG11745	GF313665	Gym				
5	TAG21254	GF326818	Gym				
6	TAG21345	GF459248	B2				
7	TAG22212	GF432414	B2				
8	TAG24524	GF425373	B2				
9	TAG28148	GF417499	B2				
10	TAG28492	GF448787	B2				
11	TAG31455	GF512912	B1				
12	TAG35683	GF612351	B1				
13	TAG40087	GF637826	B1				
14	TAG49358	GF626529	B1				
15	TAG51266	GF719635	B1				
16	TAG55538	GF854183	B1				
17	TAG56829	GF828741	B1				
18	TAG71359	GF811292	B1				
19	TAG82582	GF843566	B1				
20	TAG95289	GF831227	B1				
21	TAG99943	GF915132	B2				
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ASSET | FACULTY | STUDENT | DEPARTMENT | +

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	A	B	C	D	E	F	G
1	emp_id	Fname	Lname	Department	Computer		
2	GF211154	June	Bauer	Anthropology	TAG11458		
3	GF612351	Carl	Bladt	Managment	TAG35683		
4	GF313665	Herbert	Bognet	Athletics	TAG11745		
5	GF854183	Russell	Borchert	Science	TAG55538		
6	GF915132	Ben	Chang	Spanish	TAG99943		
7	GF326818	Jason	Chapman	Athletics	TAG21254		
8	GF637826	Richie	Countie	Managment	TAG40087		
9	GF828741	Ian	Duncan	Science	TAG56829		
10	GF459248	Sean	Garrity	Fine Arts	TAG21345		
11	GF811292	Buzz	Hickey	Science	TAG71359		
12	GF432414	Marion	Holly	Fine Arts	TAG22212		
13	GF843566	Marshall	Kane	Science	TAG82582		
14	GF114971	Robert	Layburn	AC	TAG11170		
15	GF425373	Madame	Leclair	Fine Arts	TAG24524		
16	GF626529	Craig	Pelton	Managment	TAG49358		
17	GF417499	Cory	Radison	Fine Arts	TAG28148		
18	GF448787	Peter	Sheffield	Fine Arts	TAG28492		
19	GF719635	Michelle	Slater	Math	TAG51266		
20	GF831227	Lee	Slaughter	Science	TAG95289		
21	GF512912	Jeff	Winger	Law	TAG31455		
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ASSET FACULTY STUDENT DEPARTMENT +

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	A	B	C	D	E	F	G
1	stu_id	Fname	Lname	Major	Class	GPA	fac_adv
2	GS71097	Jenny	Adams	History	1st Year	3.00	GF828741
3	GS41740	Buddy	Austin	Event Planning	3rd Year	3.75	GF811292
4	GS12035	Troy	Barnes	AC Repair	4th Year	3.75	GF114971
5	GS22914	Shirley	Bennett	Business	4th Year	3.50	GF512912
6	GS83510	Mark	Cahill	Pre-Med	2nd Year	3.75	GF828741
7	GS03563	Archie	DeCoste	Undecided	1st Year	2.50	GF811292
8	GS64388	Annie	Edison	Forensics	4th Year	4.00	GF512912
9	GS24103	Joseph	Elkins	Business	2nd Year	2.75	GF719635
10	GS05402	Linda	Greene	Undecided	3rd Year	3.25	GF417499
11	GS25802	Dan	Harmon	Business	1st Year	3.25	GF811292
12	GS06731	Pierce	Hawthorne	Undecided	10th Year	3.00	GF915132
13	GS86485	Annie	Kim	Pre-Med	2nd Year	4.00	GF828741
14	GS07970	Garrett	Lambert	Undecided	4th Year	4.00	GF417499
15	GS37821	Rachel	Larson	Engineering	4th Year	4.00	GF719635
16	GS08279	Kim	McFadden	Undecided	2nd Year	3.50	GF719635
17	GS08198	Vaughn	Miller	Undecided	3rd Year	3.00	GF417499
18	GS09657	Mark	Millot	Undecided	2nd Year	3.25	GF417499
19	GS59169	Abed	Nadir	Film	4th Year	3.25	GF459248
20	GS00226	Alex	Osbourne	Undecided	5th Year	2.50	GF915132
21	GS90644	Britta	Perry	Psychology	4th Year	2.75	GF512912
22	GS71356	Leonard	Rodriguez	History	35th Year	3.00	GF915132
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ASSET   FACULTY   **STUDENT**   DEPARTMENT   +

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	A	B	C	D	E	F	G
1	**Department**	**Location**					
2	AC	Annex					
3	Anthropology	B2					
4	Athletics	Gym					
5	Fine Arts	B2					
6	Law	B1					
7	Management	B1					
8	Math	B1					
9	Science	B1					
10	Spanish	B2					
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ASSET   FACULTY   STUDENT   **DEPARTMENT**   +

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<div align="center">**Revisions**</div>

   Added below are the generic business forms used to gather information for the database such as college applications, employee applications, student transcripts, and computer check out forms.

   Business Form 1, the Greendale College Application, is a college admissions form used by the school to gather information from students. When a student is accepted to Greendale the necessary information from the application is added to the database.

   Business Form 2, the Greendale Application for Employment, is a job application form used by Greendale to find and determine future Greendale faculty and staff. When an employee is accepted, the necessary information is taken from the job application form and added to the database.

   Business Form 3, the Greendale Student Academic Transcript, is a student information form submitted by Greendale faculty at the end of each semester with new information based on a student's academic success. The information on the form is then used to update the database.

   Business Form 4, the Greendale Computer Checkout Form, is a form filled out when an employee is assigned a new computer. The necessary information from the document is then used to update the database.

   Also included are the initial tables for the new database using normalization in a Relational Database Model.

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Business Form 1 (Greendale College Application):

Greendale
Community College

First-Year Admissions Application

This form is developed for, and to be used by, the members of the Greendale Community college System. All members evaluate this form equally with all other applications accepted by the institution. Please type or print neatly.

College Name: Greendale Community College

I am applying for the term: _____

Possible Major: _____   **Possible Career Plan**: _____

Personal Information

Please enter your name as it appears on your passport or other official documents.

Legal Name: _____
              Last (Family)   First   Middle   Suffix(Jr, Sr, etc.)

Preferred Name: _____   ☐ Male   ☐ Female

Date of Birth: _____ / _____ / _____   **Social Security #**: _____
                 mm   dd   yyyy   (###-##-####)

Email: _____   **Marital Status**: _____

Permanent Address:

_____
              Street Address   Apt #

_____
     City/Town   State/Province   Country   Zip/Postal Code

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Business Form 2 (Greendale Application for Employment):

Greendale
Community College

Application for Employment

This form is developed for, and to be used by, the members of the Greendale Community college System. All members evaluate this form equally with all other applications accepted by the institution. Please type or print neatly.

College Name: Greendale Community College

Desired Department of Employment: _____

Desired Position of Employment: _____

Personal Information

Please enter your name as it appears on your passport or other official documents.

Legal Name: _____
         Last (Family)   First   Middle   Suffix(Jr, Sr, etc.)

Preferred Name: _____   ☐ Male   ☐ Female

Date of Birth: _____ / _____ / _____   **Social Security #**: _____
               mm   dd   yyyy   (###-##-####)

Email: _____   **Marital Status**: _____

Permanent Address:

_____
              Street Address   Apt #

_____
    City/Town   State/Province   Country   Zip/Postal Code

Please attach resume, cover letter, and any certifications to the end of this form when submitting application.

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Business Form 3 (Greendale Student Academic Transcript):

Greendale
Community College

Student Academic Transcript

Student Information

Student Name: _____   Student ID: _____
           Last (Family)   First

Grade Level: _____   Current GPA: _____

Semester: _____   Academic Hours Taken: _____

Course Information

Course	Hours	Grade
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Total Hours: _____

Updated GPA: _____

Signed Off By:

Student Faculty Advisor: _____   Employee ID: _____

Employee Signature: _____

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Business Form 4 (Greendale Computer Checkout Form):

Greendale
Community College

Computer Checkout Form

Employee Information

Employee Name: _____   **Employee ID:** _____
Last (Family)   First

Department: _____   **Location:** _____

Computer Information

Computer Tag: _____   **New Location:** _____

Serial Number: _____   **Model:** _____

Signed Off By:

Employee Signature: _____   **Employee ID:** _____

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Initial Tables for the Database using Normalization in a Relational Database Model: