

Student

| Student | |
|---------|--------------------------------|
| PK | <u>student_id</u> int NOT NULL |
| | first_name |
| | last_name |
| | canvas_id |
| | title |
| FK1 | company_id |
| | email_id str UNIQUE NOT NULL |

Student_id: It is a unique student identification number assigned to each student. No students will have two student_id.

First_name: the CSV file will have a column with the first name only

Last_name: the CSV file will have a column with the last name only. No middle name required.

Title: Title is the job position of each student. For example, student, fire-department worker, etc.

Company_id: It describes the affiliation of students to different company/organization. For example: Norwich Military School, Texas A&M University

Email_id: Email_id is unique to each student. There are no two different names with same email address.

Student-Course

| Student-Course | |
|----------------|--|
| PK | <u>std_crse_id</u> int NOT NULL |
| FK1 | student_id int NOT NULL |
| FK2 | course_id int NOT NULL |
| | registration_date date NOT NULL |
| | canvas_course_completion bool NOT NULL |
| | DCLDP_code str |
| | voucher_purchased bool NOT NULL |
| | test_result str NOT NULL |

Std_crse_id: It is a unique student-course identification number assigned to student-course combo

Student_id: It is a unique student identification number assigned to each student. No students will have two student_id.

Course_id: It is a unique course identification number assigned to each course. No courses will have two course_id.

Registration_date: It is the date when student registers for a particular course

Canvas_course_completion: It is the Boolean value. There are n modules that students need to go through in order to complete the course. Students go through each module, take quiz and

once they do that with all n modules, the canvas course is completed. It is denoted by 1 or 0. 1 for “completion” and 0 for “not completion”.

DCLDP_code: DCLDP code is assigned to a Texas A&M University. It is an important field name that the client wants. DCLDP_code is related to company name. TAMU-DCLDP-Pathways and TAMU-DCLDP.

Voucher_purchased: It is a Boolean type. A student buys the voucher to take an exam. If they have bought the voucher, it is true (1), if not bought (0). For each course, they have to buy the purchase. If a student fails, the test and wants to take an exam again. They have to buy the voucher again.

Test_result: It is a string. It has the values like “Complete”, “Failed”, “2nd try”. It is connected to the student.

Course

| Course | |
|--------|----------------------------------|
| PK | <u>course_id</u> int NOT NULL |
| | name str NOT NULL |
| FK | vendor_id |

Course_id: It is a unique course identification number assigned to each course. No courses will have two course_id.

Name: it is a string type. It is the name of the course. Some of the csv has the course name as listing name. They are the same thing.

Vendor_id: The vendor provides the courses. In the future, the clients want to add more vendor. Currently, there is only one vendor, CompTIA. So, need a feature where even addition of vendor, the system recognizes that new added portion is a vendor.

Vendor

| Vendor | |
|--------|-------------------------------|
| PK | <u>vendor_id</u> int NOT NULL |
| | name str NOT NULL |

Vendor_id: It is a unique id assigned to each vendor. Currently, there is only one vendor. In the future, the client wants to add more vendors. The vendor provides courses.

Name: It describes the name of the vendor.

Company

| Company | |
|---------|--------------------------------|
| PK | <u>company_id</u> int NOT NULL |
| | name str NOT NULL |
| | SMC bool NOT NULL |

Company_id: It is a unique company id name assigned to each company. Company provides the information of where each student is affiliated to. For example, there can be a student enrolled in a course who goes to Norwich University. Here, Norwich University is a company_name.

Name: It is the name of the company. For example, Norwich University.

SMC: SMC is an important information that the clients want. It is a list of only those companies which have military program. In our data, there are four such companies. TAMU DCLDP; TAMU-DCLDP-Pathways (Both for TAMU); Virginia Military School, Norwich University; Citadel.

CertVoucher

| CertVoucher | |
|-------------|--|
| PK | <u>voucher_id</u> int NOT NULL |
| FK1 | std_crse_id int NOT NULL |
| | certification_name str NOT NULL |
| | created_date date NOT NULL |
| | expiry_date date NOT NULL |

Voucher_id: It is a unique voucher id assigned to each voucher that student buys. If a student fails the test and wants to buy the voucher again, the voucher ID is different too.

Std_crse_id: Since the voucher is connected to the student-course, it is a unique identification number for the student_course combo.

Certification_name: There are two types of certificate name: Net+ and Sec+. Students can buy voucher for either for each certification; or both.

Created_date: It is the date when the voucher was created. It is same as the registered date in csv file.

Expiry_date: It usually expires in a year – a day from the creation date.

Exam

| Exam | |
|------|-----------------------------|
| PK | <u>exam_id</u> int NOT NULL |
| FK1 | voucher_id int NOT NULL |
| | exam_code |
| | exam_date date NOT NULL |
| | passed bool |
| | exam_grade float |

Exam_id: It is a unique exam id assigned to each student when they take exam.

Voucher_id: It is a unique voucher id assigned to each voucher that student buys. If a student fails the test and wants to buy the voucher again, the voucher ID is different too.

Exam_code: There is an exam_code for each course. For example: SYO-601 is the exam_code for the course CYBER: CompTIA Security+ Prep Course (SYO-601). There is same exam_code for different course_enrollment. However, the naming of two different courses that have the same exam_code do not differ much in the wording.

Exam_date: it is the date when student takes exam.

Passed: It is a Boolean type where it gives the information if a student has passed the exam or not.

Exam_grade: It is the float type. It is a scaled value for the exam.
