CS 426-01

CAL Database Documentation



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**Preface**

This documentation for the CAL database is meant to provide assistance and clarity to any end-user who intends to make use of the CAL website. In addition, these pages will explore the inner workings of the relational database at a conceptual level and even provide insight to the students who worked on making this website possible. The closing sections of this document include the data dictionary for the entire database, the entity relationship diagram of the database, and the user manual to assist a user in navigating the website.

**Introduction**

The goal of this project was to create an improved version of the CAL database system. This new and enhanced CAL database management system was built upon an earlier iteration constructed by CS students in the past. However, this version, compared to its predecessor, is faster, more user-friendly, and more accessible. Previously, to access the CAL database system, one would need a computer with Microsoft Access installed. Accessing it through other means was simply not possible. Such a restriction is inconvenient to both CAL and the students they help. Aesthetically speaking, the older version was not pleasant to look at it. Menus were simple and the interface was clunky, even at times unresponsive. Navigating through the myriad of menus was also a problem due to the aforementioned design problems. Even the database design/structure behind the scenes was flawed. There were one to many unnecessary tables and several poor design choices relating to the relationships between several entities. These flaws made it clear what we needed to improve upon.

Rather than force the user to use a computer with Microsoft Access installed, we made it possible for anyone to access the CAL database system through any device. This was made possible by moving the system to an actual website from a particular program. The frontend design was also worked on; implementing a new colorful and organized interface with improved graphics and greater ease in navigating the system. Together, we made vital improvements to the structure of the relational database to maximize the efficiency of the system. Making this system more user-friendly was a priority for us and we hope we did just that.

To make this possible, we made use of several web technologies such as Xampp, PHP, MYSQL, JavaScript, and HTML.

Developed by Apache friends, Xampp is an open source web server solution pack that makes it possible for developers create and test local servers. Xampp also contains interpreters for scripts in PHP.

PHP is open source scripting language used primarily for server-side web development. PHP is a powerful tool for creating dynamic Web pages.

SQL (Structured Query Language) is a programming language used to define a database’s structure and manage data within a relational database management system, such as MYSQL.

JavaScript is a programming language intertwined with HTML and used mostly for website design.

HTML (Hyper Text Markup Language) is the primary language used to create web pages and applications. Alongside JavaScript and CSS (Cascading Style Sheets), HTML is a major component in what we know as the World Wide Web.

**Roles of Each Student Involved**

Julian Dasilva:

* Worked alongside Mr. Schiller on what’s happening behind the scenes when interacting with the CAL interface (backend)
* Developed security implementation of cookies and tracking for the logins to prevent brute force hacking
* Ensured all input boxes were being scrubbed to prevent sql injection attacks
* Built login system and assisted in PHP communication with database across all pages
* Developed the design for all the pages including the login page
* Developed admin dashboard and php rules for this dashboard

Roland Schiller:

* Set up Apache/Mysql server
* Set up FTP give access for the others to upload files
* Create the database in phpmyadmin from exporting the SQL that all of us worked on
* Updated the tables to include cascading delete when parent table record is deleted
* Made tests and verified that the triggers and cascading works extensively from both the UI and both the PHP side
* Created the main architecture of the website in theory with Julian and Ricardo
* Draw a rough draft of the website structure and architecture and started implementing the file structure
* Design a basic navigation menu, footer, and content pages for templates, so others can start implementing the reports
* Created the Main Dashboard where the user will start after logging in
* Created the insert student page, and the update counterpart utilizing basic HTML forms and PHP commands to insert and update
* Created the update student dashboard that is for navigating between update pages
* Created the links between websites and improved the website file structure
* Acted as a project manager assigning tasks to the team members.

Ricardo Gomez:

* Worked extensively on creating the Entity Relationship Diagram (ERD) alongside Mr. Schiller
* Provided assistance in formulating the architecture and set up of the website
* Created the data dictionary to clarify the contents of each entity set within the database and their attributes
* Co-wrote the documentation for the CAL website
* Reconstructed the website’s structure in a visual form with assistance from Mr. Schiller
* Wrote the User Manual for the CAL database
  + Screenshotted every section and subsection of the CAL database
  + Provided extensive details on how to insert new students, update existing students, view reports, and navigate through the interface
* Assisted in making the report views with SQL
* Aided in detecting any problems, typos, or errors on the website
* Proofread every section within the website and fixed any observed grammatical mistake
* Created the reference key tables for the “Clinical Records” and “Monthly Clinical Data” reports

Alfonso Logroño:

* Created html forms for the update and insert pages.

**Data Dictionary**

**academic\_program**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| PROGRAM\_TYPE | varchar(5) | No |  |  |  |  |
| ACADEMIC\_ADVISOR | varchar(100) | Yes | *NULL* |  |  |  |
| DECLARE\_DATE | date | Yes | *NULL* |  |  |  |
| ACAPROG\_ID *(Primary)* | int(11) | No |  |  |  |  |
| STUDENT\_ID | int(11) | No |  | student -> STUDENT\_ID |  |  |
| MAJOR\_ID | int(11) | No |  | major -> MAJOR\_ID |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | ACAPROG\_ID | 80 | A | No |  |
| STUDENT\_ID | BTREE | No | No | STUDENT\_ID | 80 | A | No |  |
| MAJOR\_ID | BTREE | No | No | MAJOR\_ID | 80 | A | No |  |

**academic\_program\_report**

Table comments: VIEW

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| Student ID Number | int(11) | No |  |  |  |  |
| Student First Name | varchar(50) | No |  |  |  |  |
| Student Last Name | varchar(50) | No |  |  |  |  |
| Program Name | varchar(50) | No |  |  |  |  |
| Program Type | varchar(5) | No |  |  |  |  |
| Program Declare Date | date | Yes | *NULL* |  |  |  |
| Academic Advisor | varchar(100) | Yes | *NULL* |  |  |  |

**accommodations**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| ACCOM\_ID *(Primary)* | int(11) | No |  |  |  |  |
| EXTENDED\_TEST\_TIME | tinyint(1) | Yes | *NULL* |  |  |  |
| DISTRACTION\_REDUCED\_ENVIRONMENT | tinyint(1) | Yes | *NULL* |  |  |  |
| COMPUTER\_WRITTEN\_EXAM | tinyint(1) | Yes | *NULL* |  |  |  |
| CALCULATOR\_FOR\_EXAM | tinyint(1) | Yes | *NULL* |  |  |  |
| RECORDING\_DEVICE\_FOR\_EXAM | tinyint(1) | Yes | *NULL* |  |  |  |
| NOTE\_TAKER | tinyint(1) | Yes | *NULL* |  |  |  |
| ADDITIONAL\_TIME\_FOR\_IN\_CLASS\_ASSIGNMENT | tinyint(1) | Yes | *NULL* |  |  |  |
| CLASS\_NOTES | tinyint(1) | Yes | *NULL* |  |  |  |
| COPY\_OF\_PPT\_SLIDES | tinyint(1) | Yes | *NULL* |  |  |  |
| READER\_FOR\_EXAMS | tinyint(1) | Yes | *NULL* |  |  |  |
| SCRIBE\_FOR\_EXAMS | tinyint(1) | Yes | *NULL* |  |  |  |
| ADHD | varchar(100) | Yes | *NULL* |  |  |  |
| DISORDER\_READING | tinyint(1) | Yes | *NULL* |  |  |  |
| DISORDER\_WRITING | tinyint(1) | Yes | *NULL* |  |  |  |
| DISORDER\_MATH | tinyint(1) | Yes | *NULL* |  |  |  |
| DISORDER\_NONVERBAL | tinyint(1) | Yes | *NULL* |  |  |  |
| DISORDER\_SLOW\_PROCESSING | tinyint(1) | Yes | *NULL* |  |  |  |
| AUTISM\_SPECTRUM\_DISORDER | tinyint(1) | Yes | *NULL* |  |  |  |
| OTHER\_PSYCH\_CONDITIONS | varchar(250) | Yes | *NULL* |  |  |  |
| MEDICATION | tinyint(1) | Yes | *NULL* |  |  |  |
| ACCOM\_DATE | date | No |  |  |  |  |
| STUDENT\_ID | int(11) | No |  | student -> STUDENT\_ID |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | ACCOM\_ID | 80 | A | No |  |
| STUDENT\_ID | BTREE | No | No | STUDENT\_ID | 40 | A | No |  |

**clinical\_record**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| CR\_ID *(Primary)* | int(11) | No |  |  |  |  |
| SUBJECT | varchar(100) | Yes | *NULL* |  |  |  |
| RECORD\_DATE | date | No |  |  |  |  |
| TIME\_IN | time | Yes | *NULL* |  |  |  |
| TIME\_OUT | time | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_PLAN | varchar(500) | Yes | *NULL* |  |  |  |
| OBSERVED\_STRENGTHS | varchar(500) | Yes | *NULL* |  |  |  |
| AREAS\_FOR\_IMPROVEMENTS | varchar(500) | Yes | *NULL* |  |  |  |
| WHAT\_SHOULD\_HAPPEN\_NEXT | varchar(500) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_INTERVENTION1 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_INTERVENTION2 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_INTERVENTION3 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_INTERVENTION4 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_INTERVENTION5 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_INTERVENTION6 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_INTERVENTION7 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_INTERVENTION\_OTHER | varchar(250) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES1 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES2 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES3 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES4 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES5 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES6 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES7 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES8 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES9 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES10 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES11 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES12 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES13 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES14 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES15 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES16 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES17 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES18 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES19 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES20 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES21 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES22 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES23 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES24 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES25 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES26 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES27 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES28 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES29 | tinyint(1) | Yes | *NULL* |  |  |  |
| INSTRUCTIONAL\_OUTCOMES\_OTHER | varchar(500) | Yes | *NULL* |  |  |  |
| TUTOR\_ID | int(11) | No |  | tutor -> TUTOR\_ID |  |  |
| STUDENT\_ID | int(11) | No |  | student -> STUDENT\_ID |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | CR\_ID | 500 | A | No |  |
| TUTOR\_ID | BTREE | No | No | TUTOR\_ID | 41 | A | No |  |
| STUDENT\_ID | BTREE | No | No | STUDENT\_ID | 166 | A | No |  |

**clinical\_record\_interventions**

Table comments: VIEW

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| Student ID Number | int(11) | No |  |  |  |  |
| Student First Name | varchar(50) | No |  |  |  |  |
| Student Last Name | varchar(50) | No |  |  |  |  |
| Record Date | date | Yes | *NULL* |  |  |  |
| Instructional Intervention #1 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #2 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #3 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #4 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #5 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #6 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #7 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention Other | varchar(250) | Yes | *NULL* |  |  |  |

**clinical\_record\_outcomes**

Table comments: VIEW

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| Student ID Number | int(11) | No |  |  |  |  |
| Student First Name | varchar(50) | No |  |  |  |  |
| Student Last Name | varchar(50) | No |  |  |  |  |
| Record Date | date | Yes | *NULL* |  |  |  |
| Instructional Outcome #1 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #2 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #3 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #4 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #5 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #6 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #7 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #8 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #9 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #10 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #11 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #12 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #13 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #14 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #15 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #16 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #17 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #18 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #19 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #20 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #21 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #22 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #23 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #24 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #25 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #26 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #27 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #28 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #29 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome Other | varchar(500) | Yes | *NULL* |  |  |  |

**enrollment**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| ENR\_ID *(Primary)* | int(11) | No |  |  |  |  |
| SEMESTER\_YEAR\_ENTERED\_BARRY | int(11) | No |  |  |  |  |
| SEMESTER\_YEAR\_ENTERED\_CAL | int(11) | No |  |  |  |  |
| ACCEPTED | tinyint(1) | Yes | *NULL* |  |  |  |
| HIGH\_SCHOOL\_SUPPORT | tinyint(1) | Yes | *NULL* |  |  |  |
| DATE\_LEFT\_CAL | date | Yes | *NULL* |  |  |  |
| REASON\_LEFT\_CAL | varchar(250) | Yes | *NULL* |  |  |  |
| STUDENT\_ID | int(11) | No |  | student -> STUDENT\_ID |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | ENR\_ID | 200 | A | No |  |
| STUDENT\_ID | BTREE | No | No | STUDENT\_ID | 200 | A | No |  |

**instructional\_aids**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| IA\_ID *(Primary)* | int(11) | No |  |  |  |  |
| SMART\_PRESS | tinyint(1) | Yes | *NULL* |  |  |  |
| WWWN\_SOFTWARE | tinyint(1) | Yes | 0 |  |  |  |
| DRAGON\_NATURALLY | tinyint(1) | Yes | *NULL* |  |  |  |
| LEARNING\_ALLY | tinyint(1) | Yes | *NULL* |  |  |  |
| READING\_LAB\_TUTOR | tinyint(1) | Yes | *NULL* |  |  |  |
| LINDA\_MOOD\_BELL | tinyint(1) | Yes | *NULL* |  |  |  |
| IA\_DATE | date | No |  |  |  |  |
| STUDENT\_ID | int(11) | No |  | student -> STUDENT\_ID |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | IA\_ID | 80 | A | No |  |
| STUDENT\_ID | BTREE | No | No | STUDENT\_ID | 80 | A | No |  |

**major**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| MAJOR\_ID *(Primary)* | int(11) | No |  |  |  |  |
| MAJOR\_NAME | varchar(50) | No |  |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | MAJOR\_ID | 58 | A | No |  |

**majors\_report**

Table comments: VIEW

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| Major ID | int(11) | No | 0 |  |  |  |
| Major Name | varchar(50) | No |  |  |  |  |

**monthly\_clinical\_data**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| MCR\_ID *(Primary)* | int(11) | No |  |  |  |  |
| ABSENCES | int(11) | Yes | *NULL* |  |  |  |
| TARDIES | int(11) | Yes | *NULL* |  |  |  |
| PREP1 | tinyint(4) | No |  |  |  |  |
| PREP2 | tinyint(4) | No |  |  |  |  |
| PREP3 | tinyint(4) | No |  |  |  |  |
| MOTIVATION4 | tinyint(4) | No |  |  |  |  |
| MOTIVATION5 | tinyint(4) | No |  |  |  |  |
| COMM6 | tinyint(4) | No |  |  |  |  |
| COMM7 | tinyint(4) | No |  |  |  |  |
| COMMENTS | varchar(200) | Yes | *NULL* |  |  |  |
| MCR\_DATE | date | No |  |  |  |  |
| STUDENT\_ID | int(11) | No |  | student -> STUDENT\_ID |  |  |
| TUTOR\_ID | int(11) | No |  | tutor -> TUTOR\_ID |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | MCR\_ID | 250 | A | No |  |
| STUDENT\_ID | BTREE | No | No | STUDENT\_ID | 250 | A | No |  |
| TUTOR\_ID | BTREE | No | No | TUTOR\_ID | 41 | A | No |  |

**student**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| STUDENT\_ID *(Primary)* | int(11) | No |  |  |  |  |
| STUDENT\_LAST\_NAME | varchar(50) | No |  |  |  |  |
| STUDENT\_FIRST\_NAME | varchar(50) | No |  |  |  |  |
| STUDENT\_MIDDLE\_NAME | varchar(50) | Yes | *NULL* |  |  |  |
| STUDENT\_GENDER | varchar(1) | Yes | *NULL* |  |  |  |
| STUDENT\_LIVING | varchar(30) | Yes | *NULL* |  |  |  |
| STUDENT\_PERM\_RESIDENCE | varchar(100) | Yes | *NULL* |  |  |  |
| STUDENT\_DATE\_OF\_BIRTH | date | No |  |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | STUDENT\_ID | 80 | A | No |  |

**student\_accommodation\_report**

Table comments: VIEW

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| Student ID Number | int(11) | No |  |  |  |  |
| Student First Name | varchar(50) | No |  |  |  |  |
| Student Last Name | varchar(50) | No |  |  |  |  |
| Extended Test Time | tinyint(1) | Yes | *NULL* |  |  |  |
| Distraction Reduced Environment | tinyint(1) | Yes | *NULL* |  |  |  |
| Computer Written Exams | tinyint(1) | Yes | *NULL* |  |  |  |
| Calculator For Exam | tinyint(1) | Yes | *NULL* |  |  |  |
| Recording Device For Exam | tinyint(1) | Yes | *NULL* |  |  |  |
| Note Taker | tinyint(1) | Yes | *NULL* |  |  |  |
| Extra Time For In-Class Assignment | tinyint(1) | Yes | *NULL* |  |  |  |
| Class Notes | tinyint(1) | Yes | *NULL* |  |  |  |
| Copy of Powerpoint Slides | tinyint(1) | Yes | *NULL* |  |  |  |
| Reader For Exams | tinyint(1) | Yes | *NULL* |  |  |  |
| Scribe For Exams | tinyint(1) | Yes | *NULL* |  |  |  |
| ADHD | varchar(100) | Yes | *NULL* |  |  |  |
| Reading Disorder | tinyint(1) | Yes | *NULL* |  |  |  |
| Writing Disorder | tinyint(1) | Yes | *NULL* |  |  |  |
| Math Disorder | tinyint(1) | Yes | *NULL* |  |  |  |
| Nonverbal Disorder | tinyint(1) | Yes | *NULL* |  |  |  |
| Slow Processing Disorder | tinyint(1) | Yes | *NULL* |  |  |  |
| Autism Spectrum Disorder | tinyint(1) | Yes | *NULL* |  |  |  |
| Other Pyschological Conditions | varchar(250) | Yes | *NULL* |  |  |  |
| Medication | tinyint(1) | Yes | *NULL* |  |  |  |

**student\_clinical\_record\_report**

Table comments: VIEW

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| Student ID Number | int(11) | No |  |  |  |  |
| Student First Name | varchar(50) | No |  |  |  |  |
| Student Last Name | varchar(50) | No |  |  |  |  |
| Tutor Last Name | varchar(50) | No |  |  |  |  |
| Subject | varchar(100) | Yes | *NULL* |  |  |  |
| Session Date | date | No |  |  |  |  |
| Time In | time | Yes | *NULL* |  |  |  |
| Time Out | time | Yes | *NULL* |  |  |  |
| Instructional Plan | varchar(500) | Yes | *NULL* |  |  |  |
| Observed Strengths | varchar(500) | Yes | *NULL* |  |  |  |
| Areas For Improvements | varchar(500) | Yes | *NULL* |  |  |  |
| What Should Happen Next | varchar(500) | Yes | *NULL* |  |  |  |
| Instructional Intervention #1 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #2 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #3 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #4 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #5 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #6 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention #7 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Intervention Other | varchar(250) | Yes | *NULL* |  |  |  |
| Instructional Outcome #1 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #2 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #3 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #4 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #5 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #6 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #7 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #8 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #9 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #10 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #11 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #12 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #13 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #14 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #15 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #16 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #17 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #18 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #19 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #20 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #21 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #22 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #23 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #24 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #25 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #26 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #27 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #28 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome #29 | tinyint(1) | Yes | *NULL* |  |  |  |
| Instructional Outcome Other | varchar(500) | Yes | *NULL* |  |  |  |

**student\_demographic\_report**

Table comments: VIEW

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| Student ID Number | int(11) | No |  |  |  |  |
| Student First Name | varchar(50) | No |  |  |  |  |
| Student Middle Name | varchar(50) | Yes | *NULL* |  |  |  |
| Student Last Name | varchar(50) | No |  |  |  |  |
| Date of Birth | date | No |  |  |  |  |
| Gender | varchar(1) | Yes | *NULL* |  |  |  |
| Living Accommodation | varchar(30) | Yes | *NULL* |  |  |  |
| Permanent Residence | varchar(100) | Yes | *NULL* |  |  |  |

**student\_enrollment\_report**

Table comments: VIEW

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| Student ID Number | int(11) | No |  |  |  |  |
| Student First Name | varchar(50) | No |  |  |  |  |
| Student Last Name | varchar(50) | No |  |  |  |  |
| Semester & Year Student Entered Barry | int(11) | No |  |  |  |  |
| Semester & Year Student Entered CAL | int(11) | No |  |  |  |  |
| Accepted | tinyint(1) | Yes | *NULL* |  |  |  |
| High School Support | tinyint(1) | Yes | *NULL* |  |  |  |
| Date Student Left CAL | date | Yes | *NULL* |  |  |  |
| Reason Student Left CAL | varchar(250) | Yes | *NULL* |  |  |  |

**student\_instructional\_aids\_report**

Table comments: VIEW

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| Student ID Number | int(11) | No |  |  |  |  |
| Student First Name | varchar(50) | No |  |  |  |  |
| Student Last Name | varchar(50) | No |  |  |  |  |
| Smart Pen | tinyint(1) | Yes | *NULL* |  |  |  |
| WWWN Software | tinyint(1) | Yes | 0 |  |  |  |
| Dragon Naturally | tinyint(1) | Yes | *NULL* |  |  |  |
| Learning Ally | tinyint(1) | Yes | *NULL* |  |  |  |
| Reading Lab Tutor | tinyint(1) | Yes | *NULL* |  |  |  |
| Linda Mood Bell | tinyint(1) | Yes | *NULL* |  |  |  |

**student\_monthly\_clinical\_data\_report**

Table comments: VIEW

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| Student ID Number | int(11) | No |  |  |  |  |
| Student First Name | varchar(50) | No |  |  |  |  |
| Student Last Name | varchar(50) | No |  |  |  |  |
| Total Absences | int(11) | Yes | *NULL* |  |  |  |
| Total Tardies | int(11) | Yes | *NULL* |  |  |  |
| Preparation #1 | tinyint(4) | Yes | *NULL* |  |  |  |
| Preparation #2 | tinyint(4) | Yes | *NULL* |  |  |  |
| Preparation #3 | tinyint(4) | Yes | *NULL* |  |  |  |
| Motivation #1 | tinyint(4) | Yes | *NULL* |  |  |  |
| Motivation #2 | tinyint(4) | Yes | *NULL* |  |  |  |
| Communication #1 | tinyint(4) | Yes | *NULL* |  |  |  |
| Communication #2 | tinyint(4) | Yes | *NULL* |  |  |  |
| Comments | varchar(200) | Yes | *NULL* |  |  |  |

**tutor**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| TUTOR\_ID *(Primary)* | int(11) | No |  |  |  |  |
| TUTOR\_LAST\_NAME | varchar(50) | No |  |  |  |  |
| TUTOR\_FIRST\_NAME | varchar(50) | No |  |  |  |  |
| TUTOR\_DATE\_STARTED\_CAL | date | No |  |  |  |  |
| TUTOR\_DATE\_LEFT\_CAL | date | Yes | *NULL* |  |  |  |
| TUTOR\_SUBJECT\_AREA | varchar(100) | No |  |  |  |  |
| TUTOR\_DEGREE | varchar(100) | Yes | *NULL* |  |  |  |
| TUTOR\_CONTACT\_NUMBER | varchar(50) | Yes | *NULL* |  |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | TUTOR\_ID | 20 | A | No |  |

**tutor\_information\_report**

Table comments: VIEW

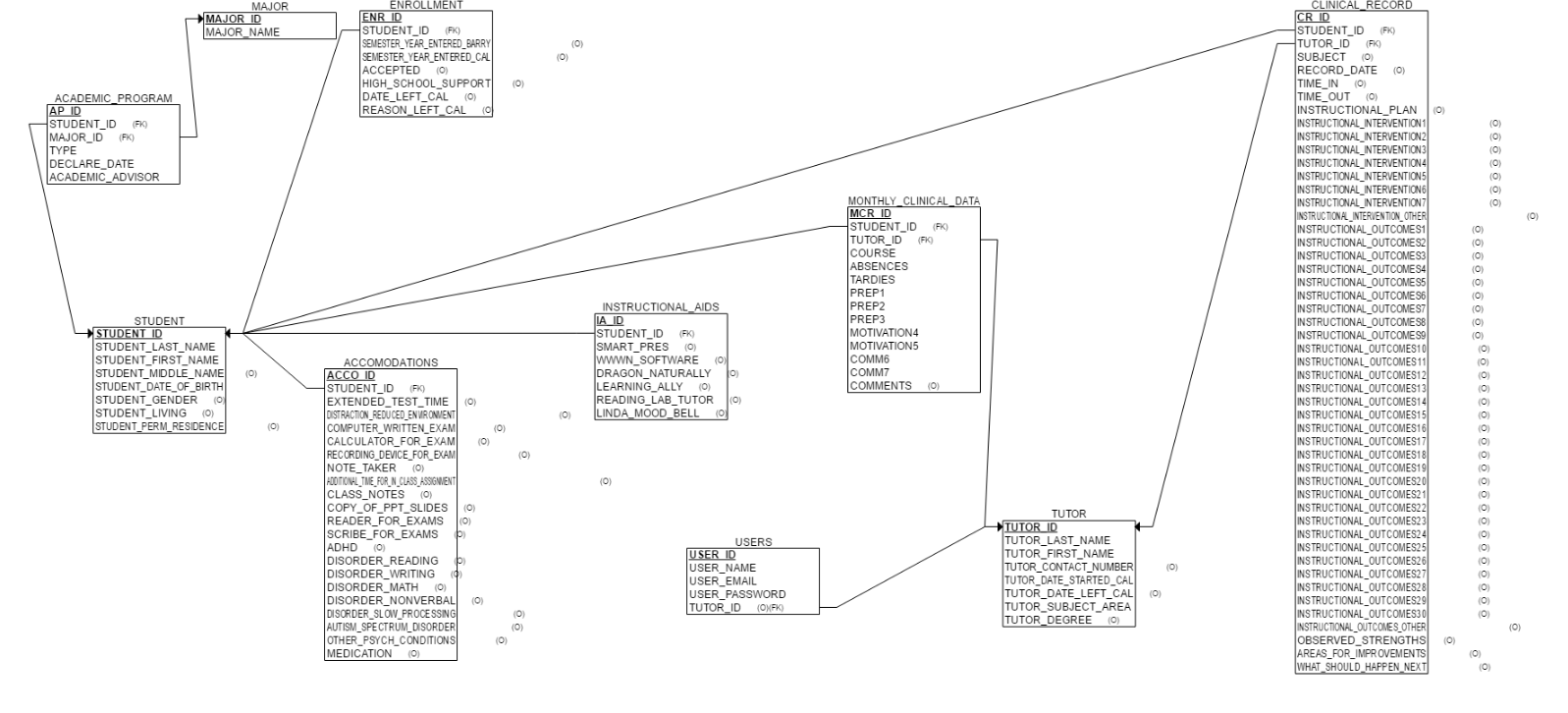
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| Tutor ID Number | int(11) | No |  |  |  |  |
| Tutor First Name | varchar(50) | No |  |  |  |  |
| Tutor Last Name | varchar(50) | No |  |  |  |  |
| Tutor Email | varchar(100) | Yes | *NULL* |  |  |  |
| Subject Area | varchar(100) | No |  |  |  |  |
| Date Started CAL | date | No |  |  |  |  |
| Date Left CAL | date | Yes | *NULL* |  |  |  |
| Tutor Contact Information | varchar(50) | Yes | *NULL* |  |  |  |

**users**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **MIME** |
| USER\_ID *(Primary)* | int(11) | No |  |  |  |  |
| USER\_EMAIL | varchar(100) | No |  |  |  |  |
| USER\_PASSWORD | varchar(100) | No |  |  |  |  |
| ISADMIN | tinyint(1) | No |  |  |  |  |
| TUTOR\_ID | int(11) | Yes | *NULL* | tutor -> TUTOR\_ID |  |  |

**Indexes**

| **Keyname** | **Type** | **Unique** | **Packed** | **Column** | **Cardinality** | **Collation** | **Null** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PRIMARY | BTREE | Yes | No | USER\_ID | 20 | A | No |  |
| USER\_EMAIL | BTREE | Yes | No | USER\_EMAIL | 20 | A | No |  |
| TUTOR\_ID | BTREE | Yes | No | TUTOR\_ID | 20 | A | Yes |  |

**Entity Relationship Diagram**

*Retrieved from searchcrm.techtarget.com/definition/entity-relationship-diagram*

**Entity Relationship Diagram**: a graphical representation of an information system that shows the relationship between people, objects, places, concepts, or events within that system.