This assignment is an individual assignment, collaboration is prohibited.

Ranken has an old system that we use to refer students to the Student Success Center (SSC). Attached is a paper form of that system. Please design a database to fulfil the following user stories.

Submitting Referrals

- ☐ As an instructor, I need to submit referrals, so that students can get help from the SSC.
- ☐ As an instructor, I need to be able to select my current course from a dropdown to avoid inaccurate data.
- □ As an instructor, I need to be able to select my current students from a dropdown to avoid inaccurate data. However this dropdown should only include current students to avoid the list being too long.

Meetings with a counselor

- As a counselor, I need to view all unresolved referrals, so that I can meet with students where needed.
- As a counselor, I need to record meetings that I have had with students, so that I know which students I have met with, when I met with them, and any outcomes of the meeting.
- ☐ As a counselor, I need to view all of the referrals for a given student, to look for trends.
- ☐ As a counselor, I need to view all meetings for a given student, to know when I last met with them and what the outcome was.

Email Notifications

- As a counselor, I need to get an email when a new referral is submitted, so that I can meet with students in a timely manner.
- ☐ As an instructor, I need to get an email when I submit a referral to confirm that it was successfully submitted and to keep a record of the referral.
- ☐ As an instructor, I need to get an email after a meeting with my students, so that I know about any agreed upon outcomes.

Student Name				

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Create an **Entity Relationship Diagram (ERD)** of your database design either on paper or digitally. Include tables for **[Courses]**, **[Students]**, **[CourseStudents]**, and **[Referrals]**.

/ 25 pts

- ☐ Diagrams created on lucidchart.com will not be accepted.
- ☐ All data described above and on the referral form is captured in the database
- ☐ [Courses] table created with appropriate columns and data types
- ☐ [Students] table created with appropriate columns and data types
- ☐ [CourseStudents] table created with appropriate columns and data types
- ☐ [Referrals] table created with appropriate columns and data types
- ☐ Relationships between tables are clearly and correctly illustrated using crow's foot notation

Write a schema definition for each table in SQL. Submit all of your schema definitions as a single script to git under labs/UNIT_03_LAB/AcademicReferral/Schema.sql

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- ☐ All data described above is captured in the database
- ☐ All fields that are listed as required above are required in the database
- ☐ All fields that are listed as optional above are optional in the database
- ☐ [Courses] table created with appropriate columns and data types
- ☐ [Students] table created with appropriate columns and data types
- ☐ [CourseStudents] table created with appropriate columns and data types
- ☐ [Referrals] table created with appropriate columns and data types
- ☐ Foreign key created for [CourseStudents] -> [Course]
- ☐ Foreign key created for [CourseStudents] -> [Students]
- ☐ Foreign key created for [Referrals] -> [CourseStudents]

Once you have created the necessary tables above. Write out SQL SELECT statements to answer the following questions. Submit your SQL queries as a single script to git under labs/UNIT_03_LAB/AcademicReferral/Queries.sql

Label each query with a comment. 5pts each.

- 1. List course ID and course name for all courses belonging to instructor Paul Smith.
- 2. List student number and student name for all students in course ID 5.
- 3. List student number, student name, and referral ID for all unresolved referrals.
- 4. List referral date, instructor name, semester, major, referral ID for all referrals belonging to student no 123.
- 5. List meeting date, counselor name, and outcomes for all referrals belonging to student no 123.