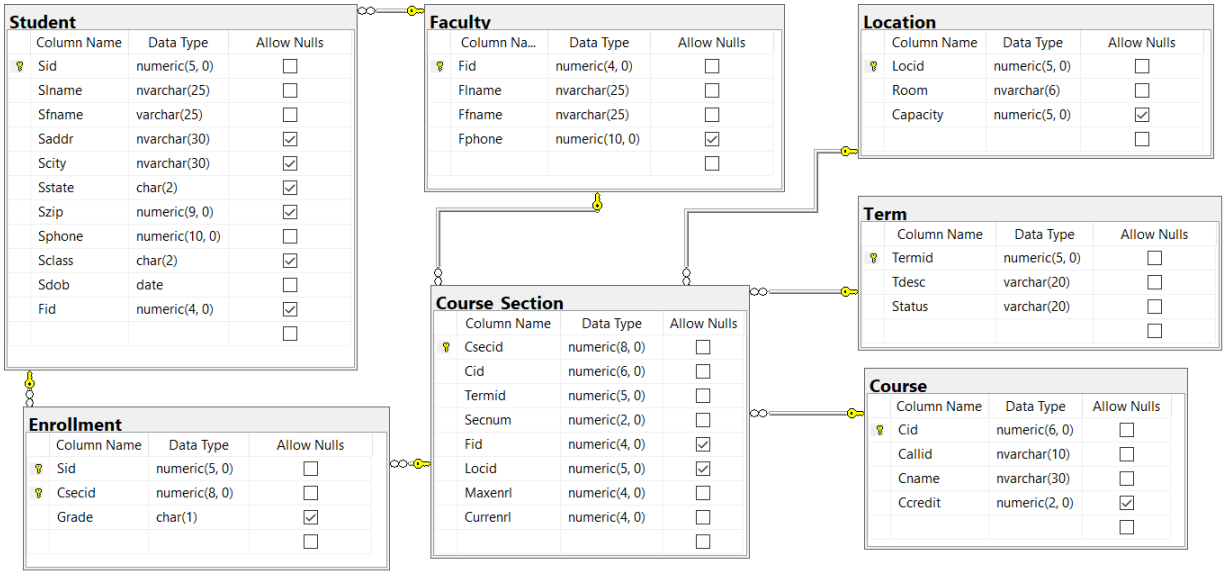
LAB2



Introduction to DDL, Check constraint, Select, Insert, Update, and Delete Statements

LAB STEPS: Complete each of the exercises below.

I. Data Definition Language (DDL)

1. Add column DESCRIPTION varchar(20) to Student table.
2. Change column DESCRIPTION varchar(20) to varchar(50).
3. Delete column DESCRIPTION from Student table.
4. Add check constraint: Sclass field of Student table only contains the following values: 'FR', 'SO', 'JR', 'SR', and 'GR'.
5. Add check constraint: Status field of Term table only contains the following values: 'OPEN' and 'CLOSED'.
6. Add check constraint: Grade field of Enrollment table only contains the following values: 'A', 'B', 'C', 'D', 'F', 'I', and 'W'.
7. Delete check constraint of table Enrollment.

II. Structured Query Language (SQL)

1. Write a query that displays a list of all students.
2. Write a query that displays a list of all faculties showing the faculty Flname, Ffname, Fphone
3. Write a query that displays each student name as a single field in the format 'firstname lastname' with a heading of Student, along with their phone number with a heading of Phone.
4. Write a query that displays a list of all courses showing the course Callid, Cname, and Ccredit. Sort the results by course name.
5. Write a query that displays a list of all students showing the student Slname, Sfname, Scity. Only display students in 'Eau Claire' city.

6. Write a query that displays the student Slname, Sfname, Szip, and Scity from the student table. Use the LIKE operator to only display students that reside in any zipcode ending with 02.

7. Write a query that displays the student Slname, Sfname, Saddr, and Scity from the student table. Use the '!=' operator to only display students that do not live in Bloomer city.

8. Write a query that displays a list of all students were born in 1979

9. Write a query that displays a list of all students were born on Aug. 19, 1979

10. Write a query that displays a list of all students were born in Oct 1977

11. Write a query to display the student Slname, Sfname, and Saddr but only display those students that have a faculty.

12.

a. Create a statement to insert a new record into the Course table with the following values:

Cid: 4

Callid: MAT201

Cname: Linear Algebra

Ccredit: 2

b. Write a SELECT query to show the result of the INSERT statement to verify that the insert worked correctly.

13.

a. Create a statement to update the record inserted in the previous step to change the Ccredit of this course to 4.

b. Write a SELECT query to show the result of the UPDATE statement to verify that the update worked correctly.

14.

a. Create a statement to delete the entire record that was inserted and then updated in the previous steps.

b. Write a SELECT query to show the result of the DELETE statement to verify that the delete worked correctly.