Problem 3:

3.For the ERD in Figure 1, you should indicate applications of the M-N relationship rule. For each M-N relationship rule application, you should list the table name, primary key, and other columns.



APPLICATIONS OF M-N RELATIONS:

1. A new Table is created for them-N relationship .
2. The table contains the primary keys of both the entities as its columns along with the attributes of the relation itself.
3. The primary keys of the participating entities act as foreign keys in the new M-N relation table and the constraint NOT NULL is enforced.

In the above figure there are no such M-N relationships.

So there is no change to the schemas of the tables from problem 2.

SCHEMAS OF THE TABLES FOR THE ABOVE ENTITY FIGURE:

Student( StdNo, StdName, StdAddress, StdCity, StdState, StdZip, StdEmail)

Lender( LenderNo, LenderName)

Institution( InstID, InstName, InstMascot)

Loan( LoanNo, StdNo NOT NULL, InstID NOT NULL, LenderNo NOT NULL, ProcDate, DisbMethod, DisbBank, DateAuth, NoteValue, Subsidized, Rate)

FOREIGN KEY(StdNo) REFERENCES(Student)

FOREIGN KEY(InstID) REFERENCES(Institution)

Foreign key(LenderNo) REFERENCES(Lender).

DisburseLine( DateSent,, Amount, Origfee, GuarFee)