Problem-2:

1. For the ERD in Figure 1, you should indicate applications of the 1-M relationship rule. For each 1-M relationship rule application, you should indicate the changes to the tables you listed in problem 1 including foreign key columns and NOT NULL constraints for foreign keys if necessary.



APPLICATIONS OF 1-M RELATION RULES:

1. They are used to indicate the foreign keys in the tables. And thus finds the parent table(with primary key) and the child table(with foreign key).
2. Add foreign keys to the child tables
3. Male the foreign keys as NOT NULL Constraint since the value of that column is mandatory.

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)