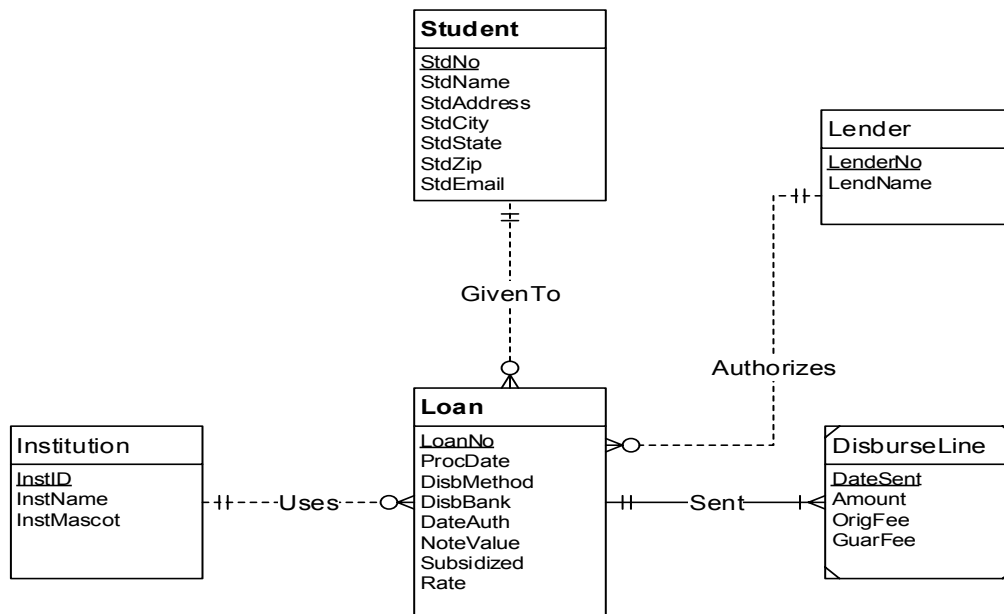


**Problem:**



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.

**Solution:**

*Applications of the 1-M Relationship Rule:*

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

Lender (LenderNo, LendName)

Institution (InstID, InstName, InstMascot)

Loan (LoanNo, **InstID**, **StdNo**, **LenderNo**, ProcDate, DisbMethod, DisbBank, DateAuth, NoteValue, Subsidized, Rate)

**FOREIGN KEY (InstID) REFERENCES Institution**

**FOREIGN KEY (StdNo) REFERENCES Student**

**FOREIGN KEY (LenderNo) REFERENCES Lender**

**InstID NOT NULL**

**StdNo NOT NULL**

**LenderNo NOT NULL**

DisburseLine (DateSent, **LoanNo**, Amount, OrigFee, GuarFee)

**FOREIGN KEY (LoanNo) REFERENCES Loan**