**Assignment 1**

**Problem 4:**

**For the ERD in Figure 1, you should indicate applications of the identifying relationship rule. For each identifying relationship rule application, you should indicate the changes to the tables you listed in problem 2.**

**Ans 4:**

**Applications of the Identifying Relationships Rule (Changes are shown below in different color – one change to add LoanNo as a primary key component so that there is a combined (DateSent, LoanNo) primary key for DisburseLine.)**

**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) REFERNECES Lender**

**InstID NOT NULL**

**StdNo NOT NULL**

**LenderNo NOT NULL**

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

**FOREIGN KEY (LoanNo) REFERENCES Loan**