**Module 10**

1. 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.

**Applying Identifying relationship rule:**

* Use the identification dependency rule to make LoanNo a component of the PK of **DisburseLine**. The PK of the table is a combination of DateSent and LoanNo.
* In the final conversion result, a not null constraint is not needed for **DisburseLine.LoanNo** because this column is part of the primary key of **DisburseLine**.

**•Institution**

(InstID, InstName, InstMascot,PRIMARY KEY(InstID))

**•Student**

(StdNo, StdName,StdAddress, StdCity, StdState, StdZip, StdEmail, PRIMARY KEY(StdNo))

**•Lender**

(LenderNo, LendName,PRIMARY KEY(LenderNo))

•**Loan**

(LoanNo,*InstID,StdNo,LenderNo,*ProcDate,DisbMethod,DisbBank,

DateAuth,NoteValue,Subsidized,Rate, PRIMARY KEY(LoanNo),

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,OrigFree,GuarFree,

PRIMARY KEY(DateSent , LoanNo)

FOREIGN KEY(LoanNo) REFERENCES Loan,

)