ER Diagram

Student

- Student ID
- StudentFName
- StudentLName
- StEmail
- StPhone
- StState
- StCity
- StStreet
- ZIP
- Student Type
  - IsBuyer
  - isSeller

Student Type:

IsBuyer = True

IsSeller = True

Buyer

Seller

buys

lists

receives

Book Copy

- CopyID
- DateSold
- DesiredPrice
- DateListed

Check

- CheckID
- CheckAmount
- CheckType
- AccountNum
- CheckDate

generates

Here I assume that a check can be generated for a couple of books bought together

sells

Distributer

- DistributerID
- DistributerFName
- DistributerLName
- DistPhone
- DistEmail

copy of

Course_Book

- CourseBookTitle

Book

- BookID
- BookName
- Edition
- AuthorLName
- AuthorFName
- YearPublished
- ISBN

Course

- CourseNum
- CourseTitle
- ProfFName
- ProfLName

University lists courses, a course can need zero or many books and a books can be required for none or many courses

Relational Schema

Student

StudentID	StudentFName	StudentLName	StEmail	StPhone	StState	StCity	StStreet	ZIP	IsBuyer	isSeller

SellerID

BuyerID

Book Copy

CopyID	DesiredPrice	DateListed	DateSold	BuyerID	SellerID	CheckID	BookID	DistributerID

Distributer

DistributerID	DistributerFName	DistributerLName	DistPhone	DistEmail

Check

CheckID	CheckAmount	CheckType	AccountNum	CheckDate	CheckRecipientID

Colored the overlapping lines here

Book

BookID	ISBN	BookName	Edition	AuthorFName	AuthorLName	YearPublished

Course_Book

BookID	CourseNum	CourseBookTitle

Course

CourseNum	CourseTitle	ProfFName	ProfLName