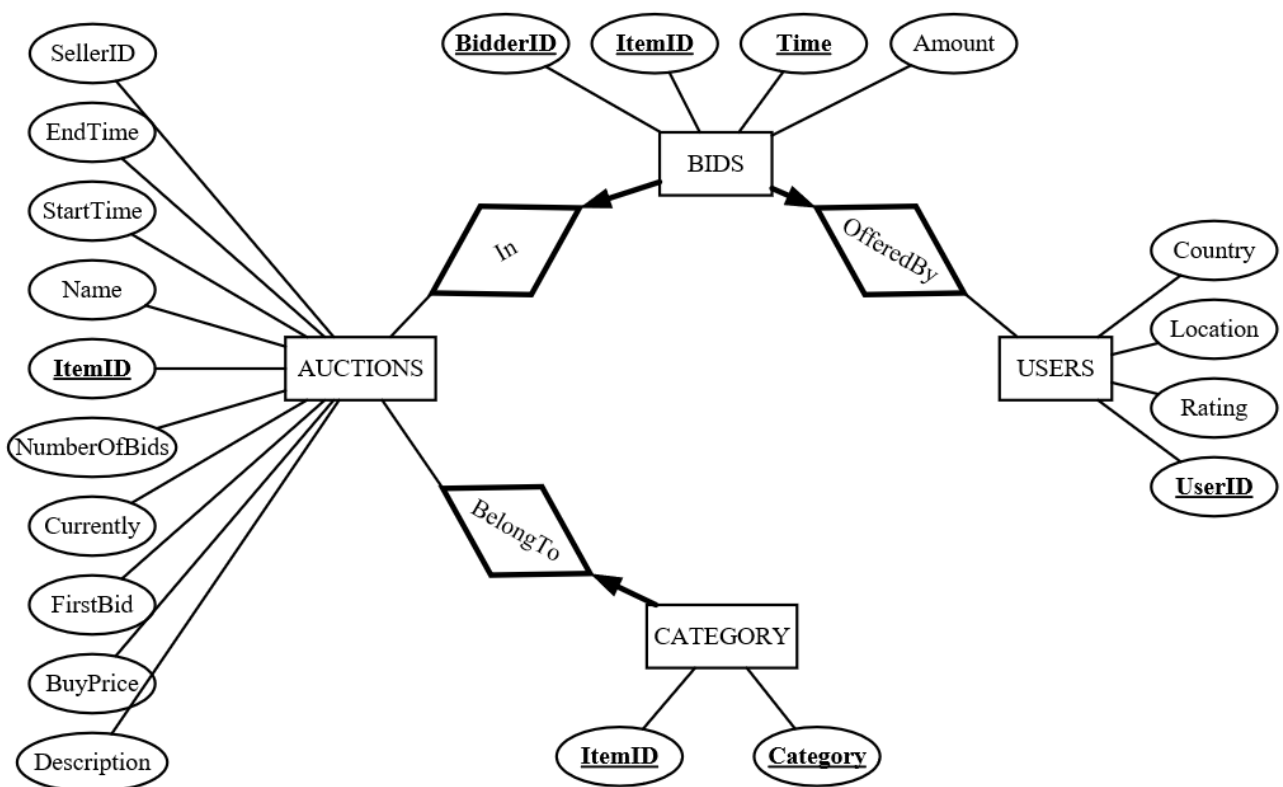


# CS564 Project Part 1

## Group 7 Team members

Name	NetID
Qian Zhang	qzhang348
Lin Su	lsu32
Tina Xiong	jxiong49
Dan Xiao	dfxiao

## ER diagram



## Tables

AUCTIONS									
SellerID	StartTime	EndTime	Name	<u>ItemID</u>	NumberOf Bids	Currently	FirstBid	BuyPrice	Description

**Table name:** AUCTIONS

**Attributes:** SellerID, StartTime, EndTime, Name, ItemID, NumberOfBids, Currently, FirstBid, BuyPrice, Description

**Primary Key:** ItemID

**Foreign Key:** (SellerID) REFERENCES USERS(UserID)

BIDS			
<u>BidderID</u>	<u>ItemID</u>	<u>Time</u>	Amount

**Table name:** BIDS

**Attributes:** BidderID, ItemID, Time, Amount

**Primary Key:** BidderID, ItemID, Time

**Foreign Key:** (ItemID) REFERENCES AUCTIONS(ItemID)

**Foreign Key:** (BidderID) REFERENCES USERS(UserID)

USERS			
<u>UserID</u>	Country	Location	Rating

**Table name:** USERS

**Attributes:** UserID, Country, Location, Rating

**Primary Key:** UserID

CATEGORY	
<u>ItemID</u>	<u>Category</u>

**Table name:** Category

**Attributes:** ItemID, Category

**Primary Key:** ItemID, Category

**Foreign Key:** (ItemID) REFERENCES AUCTIONS(ItemID)

**Notes:**

In our graph, the relationships, *In*, *BelongTo*, *OfferedBy* in the picture inherits the primary key from the related two entities. Thus, the relationships share the same primary key as one of the adjacent entity set. And because all of those relationships are one-many or many-one relationships and we can enforce total participation by defining foreign key, we don't need tables for those relationships.