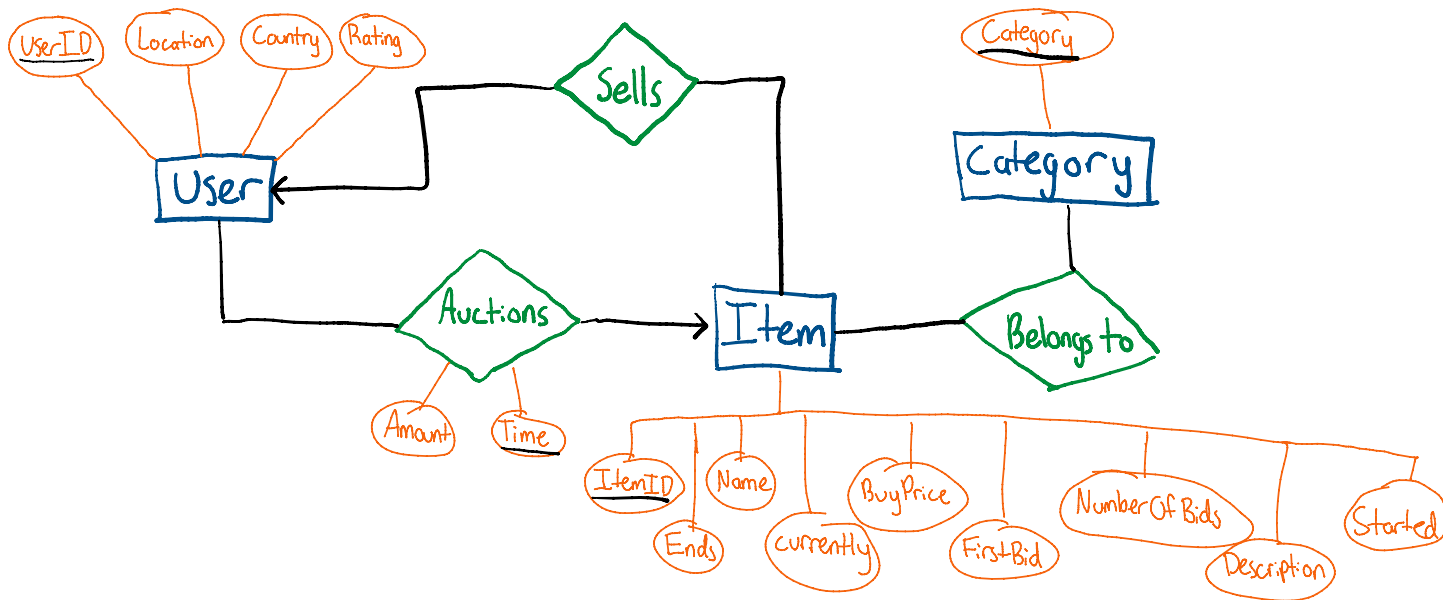


ER Diagram/Relational Schema

Sunday, October 10, 2021 7:40 PM

ER DIAGRAM



RELATIONAL SCHEMA DEFINITIONS

User(UserID, Location, Country, Rating)

Auction(Amount, Time, ItemID, UserID) //The UserID here is BidderID (Underline Time, ItemID, UserID)

Category(ItemID, Category) //(Underline both)

Item(ItemID, Name, Currently, Buy_Price, First_Bid, Number_of_Bids, Started, Ends, Seller_UserID, Description) //(Underline Seller_UserID in this case it is just the refactor of the UserID from UserID under User)

```
create table Item (  
  ItemID CHAR(10) PRIMARY KEY,  
  Name VARCHAR,  
  Currently CHAR(10),  
  Buy_Price CHAR(10),  
  First_Bid CHAR(10),  
  Number_of_Bids CHAR(5),  
  Started CHAR(20),  
  Ends CHAR(20),  
  Seller_UserID VARCHAR,  
  FOREIGN KEY (Seller_UserID)  
    REFERENCES User(UserID),  
  Description TEXT  
);
```

```
create table User(  
  UserID VARCHAR PRIMARY KEY,  
  Location VARCHAR,  
  Country VARCHAR,  
  Rating VARCHAR  
);
```

```
create table Auction(  
    ItemID CHAR(10),  
    UserID VARCHAR,  
    Time VARCHAR,  
    Amount VARCHAR,  
    PRIMARY KEY(ItemID,UserID,Time)  
    FOREIGN KEY (ItemID)  
        REFERENCES Item(ItemID),  
    FOREIGN KEY (UserID)  
        REFERENCES User(UserID)  
);
```

```
create table Category(  
    ItemID CHAR(10),  
    Category VARCHAR,  
    PRIMARY KEY(ItemID,Category)  
);
```