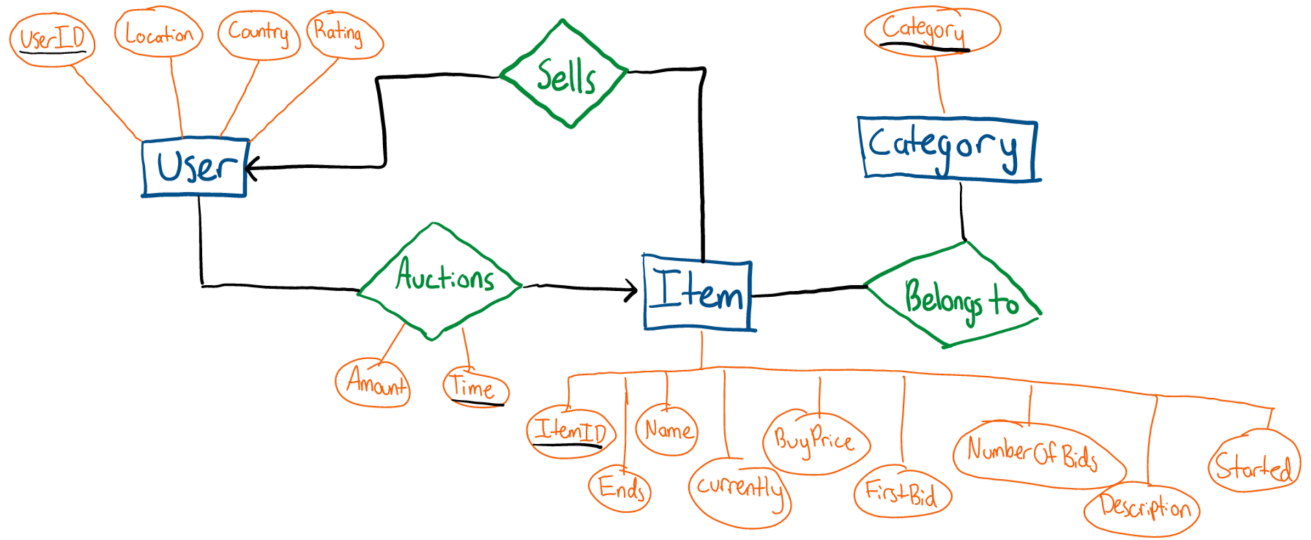


ER DIAGRAM



Relational schema

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

```
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,  
    Description VARCHAR,  
    FOREIGN KEY (Seller_UserID) REFERENCES User(UserID)  
);
```

User(UserID, Location, Country, Rating)

```
CREATE TABLE User(  
    UserID VARCHAR PRIMARY KEY,  
    Location VARCHAR,  
    Country VARCHAR,  
    Rating VARCHAR  
);
```

Auction(ItemID, UserID, Time, Amount)

```
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)  
);
```

Category(ItemID, Category)

```
CREATE TABLE Category(  
    ItemID CHAR(10),  
    Category VARCHAR,  
    PRIMARY KEY(ItemID, Category)  
    FOREIGN KEY (ItemID) REFERENCES Item(ItemID)  
);
```