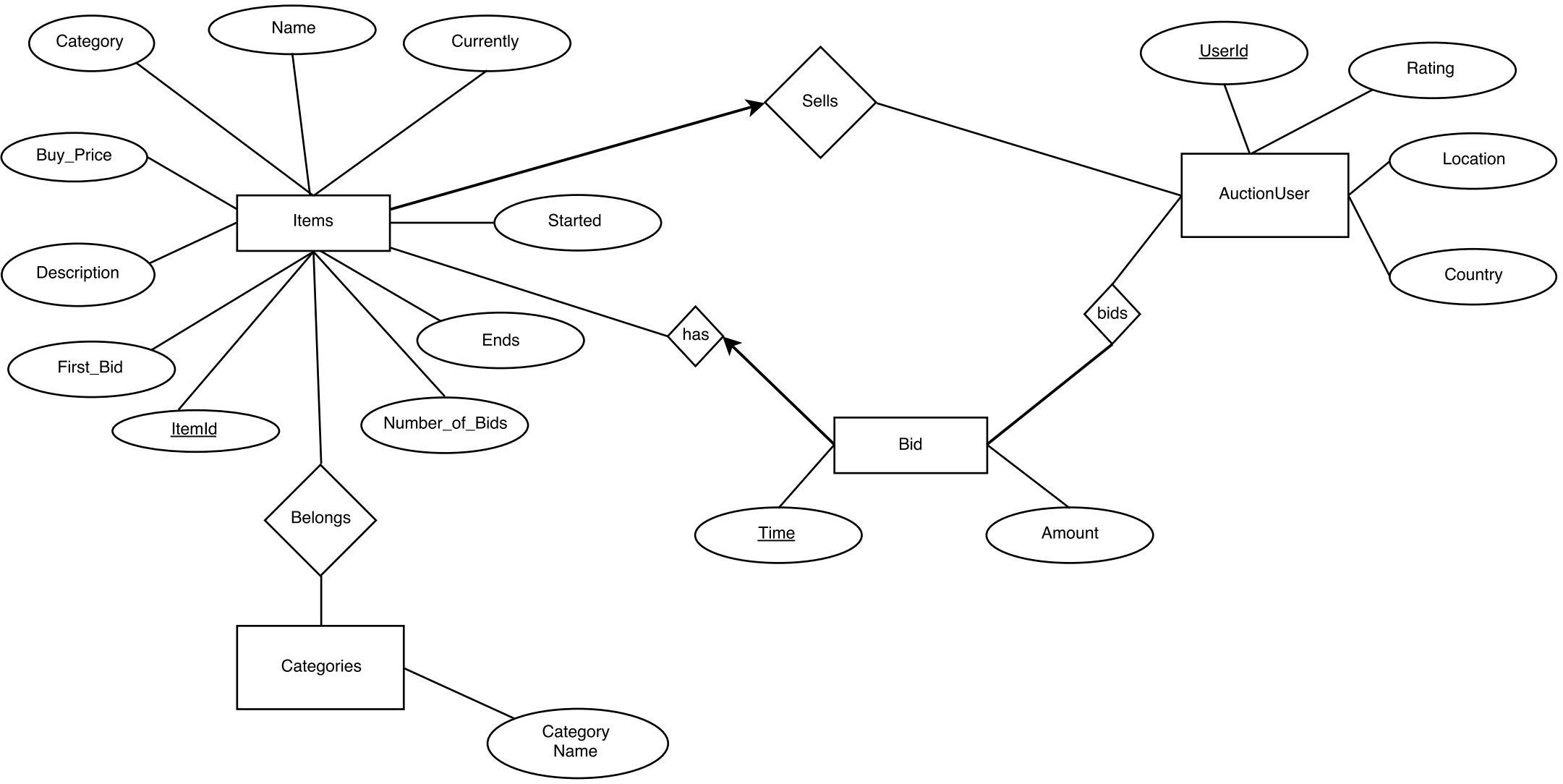

AuctionBase Project - ER Diagram

Relational Schema

1. Table – AuctionUser

AuctionUser (UserID*: text,* Rating: *int*, Location: *text,* Country: *text*)

Primary Key – UserID

SQL Query to create table -

```
CREATE TABLE AuctionUser (
        UserID TEXT PRIMARY KEY,
        Rating INT,
        Location TEXT,
        Country TEXT
);
```

2. Table – Items

Items (ItemID*: int,* Name: *text*, Currently: *float,* Buy_Price: *float,* First_Bid: *float,* Number_of_Bids: *int,* Start_TIme: *datetime,* End_TIme: *datetime,* Description: *text,* UserID: *text*)

Primary Key – ItemID
Foreign Key – UserID references UserID(AuctionUser)

SQL Query to create table –

```
CREATE TABLE Items (
        ItemID INT PRIMARY KEY,
        UserID TEXT,
        Name TEXT,
        Currently REAL,
        Buy_Price REAL,
        First_Bid REAL,
        Number_of_Bids INT,
        Start_TIme DATETIME,
        End_TIme DATETIME,
        Description TEXT,
        FOREIGN KEY(UserID) REFERENCES UserID(AuctionUser)
);
```

3. Table – Bid

Bid (ItemID: int, UserID: text, Time: datetime, Amount: real)

Primary Key(UserID,ItemID,Time)

Foreign Key(UserID) References UserID(AuctionUser)
Foreign Key(ItemID) References ItemID(Items).

SQL Query to create table –

```
CREATE TABLE Bid (
   ItemID INT,
   UserID TEXT,
   Time DATETIME,
   Amount REAL,
   PRIMARY KEY(UserID,ItemID,Time),
   FOREIGN KEY(UserID) REFERENCES UserID(AuctionUser),
   FOREIGN KEY(ItemID) REFERENCES ItemID(Items)
);
```

4. Table – Category

Category (ItemID: int, Category: text)

Primary key – (ItemID, Category)

Foreign Key(ItemID) References ItemID(Items)

SQL Query to create table –

```
CREATE TABLE Category (
   ItemID INT,
   Category TEXT,
   PRIMARY KEY(ItemID,Category),
   FOREIGN KEY(ItemID) REFERENCES ItemID(Items)
);
```