Entity-Relationship Diagram

Item entity attributes:
- ItemId (key)
- Name
- Ends
- Started
- Location
- NumberOfBids
- FirstBid
- BuyPrice
- Currently
- Description
- Country

Relationships:
- Item —— Sold by —— User
- Item —— Bids on —— User
- Item —— Belongs to —— Category

Bids on attributes:
- BidTime (key)
- Amount

Category entity attributes:
- Description (key)

User entity attributes:
- UserId (key)
- Location
- Country
- Rating

Items (
    ItemId: int **primary key,**
    Country: string,
    Description: text,
    Currently: string,
    Name: string,
    Started: string,
    Ends: string,
    Location: string,
    NumberOfBids: int,
    FirstBid: float(2),
    BuyPrice: float(2),
    SellerId: int **NOT NULL**,
    Foreign key SellerId: int **references** User(UserID)
)

Users (
    UserId: int **primary key,**
    Location: string,
    Country: string,
    Rating: int
)

Bids (
    BidTime: string **primary key**,
    Amount: float(2),
    ItemId: int **NOT NULL**,
    UserId: int **NOT NULL**,
    Foreign key UserId **references** Users(UserId),
    Foreign key ItemId **references** Items(ItemId)
)

Categories (
    ItemId: int **NOT NULL**,
    Description: string,
    Foreign key ItemId **references** Items(ItemId),
    Primary key (Description, ItemId)
)