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Here's a snapshot of our relational schema in text form followed by an Entity-Relation diagram describing the schema. The primary and foreign keys as well the relationships have been clearly illustrated. Please feel free to direct any questions to our group.

```
Items(  
    ItemID INTEGER PRIMARY KEY,  
    SellerID TEXT NOT NULL,  
    Name TEXT NOT NULL,  
    Currently REAL NOT NULL,  
    Buy_Price REAL,  
    First_Bid REAL NOT NULL,  
    Number_of_Bids INTEGER NOT NULL,  
    Starts DATETIME NOT NULL,  
    Ends DATETIME NOT NULL CHECK (Ends > Starts),  
    Description TEXT,  
    FOREIGN KEY(SellerID) REFERENCES User(UserID)  
);  
  
Users(  
    UserID TEXT PRIMARY KEY,  
    Rating INTEGER NOT NULL,  
    Location TEXT,  
    Country TEXT  
);  
  
Category(  
    ItemID INTEGER NOT NULL,  
    Category TEXT NOT NULL,  
    CONSTRAINT unique_item_category UNIQUE (ItemID, Category),  
    PRIMARY KEY (ItemID, Category),  
    FOREIGN KEY (Category) REFERENCES CategoryList(Category),  
    FOREIGN KEY (ItemID) REFERENCES Item(ItemID)  
);  
  
Bids(  
    UserID TEXT NOT NULL,  
    ItemID INTEGER NOT NULL,  
    Time DATETIME NOT NULL,  
    Amount REAL NOT NULL,  
    CONSTRAINT BidID PRIMARY KEY(UserID, ItemID, Time),  
    FOREIGN KEY (UserID) REFERENCES User(UserID),  
    FOREIGN KEY (ItemID) REFERENCES Item(ItemID)  
);
```

CategoryList(
Category TEXT PRIMARY KEY
);

