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1.Relational Schema

```
create table item (
ItemID
                 INT
                                   NOT NULL UNIQUE,
                  VARCHAR(255)
                                   NOT NULL,
Name
CategoryNum
                 ΙΝΤ,
Currently
                 DOUBLE,
FirstBid
                 DOUBLE,
NumberBids
                 ΙΝΤ,
Location
                  VARCHAR(255),
Country
                  VARCHAR(255),
Started
                 DATE,
Ended
                 DATE,
Seller
                  VARCHAR(255) NOT NULL,
Buy_Price
                  DOUBLE,
Description
                  VARCHAR(255),
PRIMARY KEY (ItemID),
FOREIGN KEY (Seller) REFERENCES userInfo(UserID)
);
create table userInfo (
                                   NOT NULL UNIQUE,
UserID
Rating
                 INT
                                   NOT NULL,
Location
                  VARCHAR(255)
                                   NOT NULL,
Country
                  VARCHAR(255)
                                   NOT NULL,
isSeller
                  VARCHAR(6),
                  VARCHAR(6),
isBuyer
PRIMARY KEY (UserID)
);
create table bidInfo (
ItemID
                 INT
                                   NOT NULL,
                                   NOT NULL,
UserID
                  VARCHAR(225)
Rating
                 DOUBLE,
Location
                  VARCHAR(225),
Country
                  VARCHAR(225),
CurrTime
                 DATE NOT NULL,
                 DOUBLE,
Amount
FOREIGN KEY (ItemID) REFERENCES item(ItemID),
FOREIGN KEY (UserID) REFERENCES userInfo(UserID)
);
create table catBidInfo(
Categories
                 VARCHAR(255)
                                   NOT NULL,
Amount
                 DOUBLE
                                   NOT NULL,
                                   NOT NULL,
                  VARCHAR(255)
FOREIGN KEY (ID) REFERENCES userInfo(UserID)
);
```

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2. ER Diagram

