DELIVERABLE PDF FOR PART 3 FINAL PROJECT

Link to video:

https://upedu-my.sharepoint.com/:v:/g/personal/han24_up_edu/EX0rbEdQO9dGpQ7T10AM3d4B4mbr60UexwqIgQk5di4blg

I don't have queries for P2 to alter the table. I did them all in the terminal like using ALTER TABLE. Most of the constraints i had were already in the table when I created the table in the first part of this project

QUERIES

CREATE TRIGGER QUERY

```
CREATE TRIGGER updateTotalBids AFTER INSERT ON tblBids
   FOR EACH ROW
             UPDATE tblItems
             SET NumBids = 1 + NumBids
        WHERE ItemID = new.ItemID;

CREATE TRIGGER updateBidPrice AFTER INSERT ON tblBids
FOR EACH ROW
        UPDATE tblItems
        SET CurrentBid = new.Amount
        WHERE ItemID = new.ItemID;

CREATE TRIGGER updateSellerList AFTER INSERT ON tblItems
FOR EACH ROW
   INSERT IGNORE INTO tblSellers (UserID, Rating) VALUES (new.SellerID, 0);

CREATE TRIGGER updateBuyerList AFTER INSERT ON tblBids
FOR EACH ROW
   INSERT IGNORE INTO tblBuyers (UserID, Rating) VALUES (new.UserID, 0);

CREATE TRIGGER updateBuyerRating AFTER UPDATE ON tblSellers
FOR EACH ROW
        UPDATE tblBuyers
        SET Rating = new.Rating
        WHERE BuyerID = new.UserID;
```

CREATE INDEX

```
CREATE INDEX CategoryIndex ON tblCategories (ItemID, Category);
CREATE INDEX BidsIndex ON tblBids (ItemID, Time);
CREATE INDEX ItemsIndex ON tblItems (Description, SellerID, ItemID, StartTime, EndTime);
```

CREATE TABLE THEN INSERT DATA
Create Table Query

```sql
START TRANSACTION;
CREATE TABLE tblItems(
    ItemID INTEGER PRIMARY KEY AUTO_INCREMENT NOT NULL,
    Name TEXT NOT NULL,
    FirstBid Decimal NOT NULL CHECK(FirstBid >= 0),
    CurrentBid Decimal NOT NULL CHECK(CurrentBid >= 0),
    BuyPrice varChar(40),
    NumBids Integer NOT NULL CHECK(NumBids >= 0),
    StartTime DATETIME NOT NULL,
    EndTime DATETIME NOT NULL,
    SellerID varChar(400) NOT NULL,
    Description LONGTEXT NOT NULL
);
CREATE TABLE tblCategories(
    ItemID INTEGER NOT NULL,
    Category varChar(300) NOT NULL
);
CREATE TABLE tblBids(
    ItemID INTEGER NOT NULL,
    UserID varChar(400) NOT NULL,
    Time DATETIME NOT NULL,
    Amount Decimal NOT NULL CHECK(Amount >= 0)
);
CREATE TABLE tblSellers(
    UserID varChar(400) PRIMARY KEY NOT NULL,
    Rating Integer NOT NULL CHECK(Rating >= 0),
    Location varChar(250),
    Country varChar(250)
);
CREATE TABLE tblBuyers(
    UserID varChar(400) PRIMARY KEY NOT NULL,
    Rating Integer NOT NULL CHECK(Rating >= 0),
    Location varChar(250),
    Country varChar(250)
);
CREATE TABLE login(
    username varChar(200) NOT NULL,
    password varChar(200) NOT NULL
);
COMMIT;
```