IT5014 – Project (PW)
Semester: 5
Database Dictionary
Title of the project: E-Auction Management System

- **tblUsers**

Column Name	Data Type	Size	Constraints	Description
Id	INT		PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each user
FirstName	VARCHAR	20	NOT NULL	First name of the user
LastName	VARCHAR	20	NOT NULL	Last name of the user
MobileNo.	VARCHAR	10	NOT NULL, UNIQUE	Mobile number of the user
Email	VARCHAR	200	NOT NULL, UNIQUE	Email address of the user
Address	VARCHAR	500		Residential address of the user
DateofBirth	DATE			Date of birth of the user
Username	VARCHAR	15	NOT NULL, UNIQUE	Username for the user login
Password	VARCHAR	20	NOT NULL	Password for the user login (hashed)
Role	VARCHAR	6	NOT NULL	Role of the user (buyer, admin)
UserImage	BLOB			Profile image of the user

- **tblCategory**

Column Name	Data Type	Size	Constraints	Description
CategoryID	INT		PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each category
CategoryName	VARCHAR	50	NOT NULL	Name of the category

- **tblItem**

Column Name	Data Type	Size	Constraints	Description
ItemID	INT		PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each item
Name	VARCHAR	100	NOT NULL	Name of the item
CategoryID	INT		NOT NULL, FOREIGN KEY REFERENCES tblCategory(CategoryID)	Category of the item
Description	TEXT		NOT NULL	Detailed description of the item
Image	BLOB			Image of the item

● **tblAuctionItem**

Column Name	Data Type	Size	Constraints	Description
AuctionItemID	INT		PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each auction item
ItemID	INT		NOT NULL, FOREIGN KEY REFERENCES tblItem(ItemID)	Item being auctioned
StartDatetime	DATETIME		NOT NULL	Date and time when the auction starts
EndDatetime	DATETIME		NOT NULL	Date and time when the auction ends
ListedDate	DATETIME		NOT NULL	Date and time when the item was listed for auction
StartingPrice	DECIMAL	10,2	NOT NULL	Initial price at which the auction starts
ReservePrice	DECIMAL	10,2	NOT NULL	Minimum price the seller is willing to accept
EMDDateTime	DATETIME		NOT NULL	Deadline for Earnest Money Deposit
EMDAmount	DECIMAL	10,2	NOT NULL	Amount to be deposited as Earnest Money
IncrementValue	DECIMAL	10,2	NOT NULL	Minimum increment value for bids
MinimumBidders	INT		NOT NULL	Minimum number of bidders required for the auction

			('pending', 'active', 'closed', 'cancelled'), NOT NULL	
Status	ENUM			Current status of the auction item

- **tblBid**

Column Name	Data Type	Size	Constraints	Description
BidID	INT		PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each bid
AuctionItemID	INT		NOT NULL, FOREIGN KEY REFERENCES tblAuctionItem(AuctionItemID)	Auction item being bid on
UserID	INT		NOT NULL, FOREIGN KEY REFERENCES tblUser(UserID)	User placing the bid
BidValue	DECIMAL	10,2	NOT NULL	Value of the bid placed
BidTime	DATETIME		NOT NULL	Date and time when the bid was placed

● **tbltransection**

Column Name	Data Type	Size	Constraints	Description
TransactionID	INT		PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each transaction
UserID	INT		NOT NULL, FOREIGN KEY REFERENCES tblUser(UserID)	User involved in the transaction
AuctionItemID	INT		NOT NULL, FOREIGN KEY REFERENCES tblAuctionItem(AuctionItemID)	Auction item related to the transaction
Type	ENUM		('EMD', 'Payment', 'Refund'), NOT NULL	Type of transaction
Amount	DECIMAL	10,2	NOT NULL	Amount of the transaction
TransactionDate	DATETIME		NOT NULL	Date and time of the transaction

● **tblEMDRefund**

Column Name	Data Type	Size	Constraints	Description
RefundID	INT		PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each refund
AuctionItemID	INT		NOT NULL, FOREIGN KEY REFERENCES tblAuctionItem(AuctionItemID)	Auction item related to the refund
UserID	INT		NOT NULL, FOREIGN KEY REFERENCES tblUser(UserID)	User receiving the refund
Amount	DECIMAL	10,2	NOT NULL	Amount of the refund
RefundDate	DATETIME		NOT NULL	Date and time when the refund was processed
Status	ENUM		('pending', 'processed', 'cancelled', 'not applicable'), NOT NULL	Status of the refund

- **tbl Payment**

Column Name	Data Type	Size	Constraints	Description
PaymentID	INT		PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each payment
AuctionItemID	INT		NOT NULL, FOREIGN KEY REFERENCES tblAuctionItem(AuctionItemID)	Auction item being paid for
UserID	INT		NOT NULL, FOREIGN KEY REFERENCES tblUser(UserID)	User making the payment
PaymentAmount	DECIMAL	10,2	NOT NULL	Amount paid by the user
PaymentDate	DATETIME		NOT NULL	Date and time of the payment
PaymentMethod	ENUM		('CreditCard', 'DebitCard', 'NetBanking', 'UPI'), NOT NULL	Method used for payment
PaymentStatus	ENUM		('Pending', 'Completed', 'Failed'), NOT NULL	Status of the payment

- **tblFavorite**

Column Name	Data Type	Size	Constraints	Description
Id	INT		PRIMARY KEY, AUTO_INCREMENT	Unique identifier for each favorite record
Userid	INT		NOT NULL, FOREIGN KEY REFERENCES tblUser(UserID)	ID of the user who marked the item as favorite
Itemid	INT		NOT NULL, FOREIGN KEY REFERENCES tblItem(ItemID)	ID of the item marked favorite