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 |
| Status | ENUM |  | ('pending', 'active', 'closed', 'cancelled'), NOT NULL | 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 |