**Table 1: Users table details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Constraint** | **Data type** | **Size** | **Description** |
| userid | Primary Key | Integer (AI) | 11 | Uniquely identify user |
| firstname |  | Character Varying | 15 | First name of user |
| lastname |  | Character Varying | 15 | Last name of user |
| username |  | Character Varying | 20 | Username of user |
| password |  | Character Varying | 255 | Password of user |
| email |  | Character Varying | 50 | e-mail of user |
| contact |  | Character Varying | 10 | Mobile or telephone number of user |
| department |  | Character Varying | 15 | Department user works in company |
| role |  | Character Varying | 15 | Role of user |

**Table 2: Tenders table details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Constraints** | **Data type** | **Size** | **Description** |
| tenderid | Primary Key | Integer (AI) | 11 | Uniquely identify tender |
| title |  | Character Varying | 100 | Title of tendering document |
| category |  | Character Varying | 20 | Category of tender document |
| opendate |  | date |  | Date when tender is opened |
| closingdate |  | date |  | Date when tender is closed |
| status |  | Character Varying | 15 | Status of tender |
| description |  | Text |  | Description of tender |
| dateofpublication |  | date |  | Date when tender is published |
| tenderdocs |  | Character varying | 50 | The tender documents path |

**Table 3: Bids table details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Constraints** | **Data type** | **Size** | **Description** |
| bidid | Primary Key | Integer (AI) | 11 | Uniquely identify bid |
| biddate |  | date |  | Date of received bid |
| taxcompliance |  | Character varying | 50 | Tax compliance document |
| pincertificate |  | Character varying | 50 | Pin certificate document |
| financialhistory |  | Character varying | 50 | Financial history document |
| techspec |  | Character varying | 50 | Technical specification document |
| bidprice |  | integer | 11 | The bid amount of the tender |
| companyid | Foreign Key | integer | 11 | Identify of company |
| tenderid | Foreign key | integer | 11 | Identify of tender |
| flag |  | smallint | 4 | Marks bids as seen or evaluated |

**Table 4: Evaluation table details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Constraints** | **Data type** | **Size** | **Description** |
| evaluationid | Primary Key | Integer (AI) | 11 | Uniquely identify contract |
| Totalstage1 |  | Integer | 11 | Total score of stage 1 evaluation |
| Totalstage2 |  | integer | 11 | Total score of stage 2 evaluation |
| Totalstage3 |  | Integer | 11 | Total score of stage 3 evaluation |
| bidid | Foreign Key | integer | 11 | Identify of tender bid |

**Table 5: EvaluationLot table details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Constraints** | **Data type** | **Size** | **Description** |
| evlotid | Primary Key | Integer (AI) | 11 | Uniquely identify evaluation lot |
| Stage1 |  | integer | 11 | Score of stage 1 evaluation |
| Stage2 |  | integer | 11 | Score of stage 2 evaluation |
| Stage3 |  | integer | 11 | Score of stage 3 evaluation |
| committeeid | Foreign Key | integer | 11 | Identify of committee member |
| bidid | Foreign Key | integer | 11 | Identify of bid |
| evaluationid | Foreign Key | integer | 11 | Identify of final evaluation |

**Table 6: Requisitions table details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Constraints** | **Data type** | **Size** | **Description** |
| requisitionid | Primary Key | Integer (AI) | 11 | Uniquely identify requisition |
| item |  | Character Varying | 20 | Name of item |
| units |  | Character varying | 5 | Units of measure of item |
| priceperunit |  | integer | 11 | Price of item per unit |
| quantity |  | integer | 11 | Quantity of item |
| totalprice |  | integer | 11 | Total price of item |
| category |  | Character varying | 20 | Category of item |
| supplier |  | Character Varying | 20 | Supplier of item |
| description |  | Character varying | 50 | File of description of item |
| status |  | smallint | 4 | Status of requisition |
| flag |  | smallint | 4 | Marks requisitions as seen |
| userid | Foreign Key | Integer | 11 | Identify of user |

**Table 7: AwardTender table details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Constraints** | **Data type** | **Size** | **Description** |
| awardid | Primary Key | Integer (AI) | 11 | Uniquely identify tender award |
| awarddate |  | date |  | Date of tender award |
| startdate |  | date |  | Date of contract starting |
| enddate |  | date |  | Date of contract completion |
| tenderid | Foreign Key | integer | 11 | Identify of tender |
| companyid | Foreign Key | integer | 11 | Identify of company |
| status |  | Character varying | 15 | Status of tender award |

**Table 8: Company table details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Constraints** | **Data type** | **Size** | **Description** |
| companyid | Primary key | Integer (AI) |  | Uniquely identify company |
| companyname |  | Character varying | 50 | Name of company |
| contact |  | Character varying | 10 | Contact of company |
| email |  | Character varying | 50 | Email of company |
| postaladdress |  | Character varying | 20 | Postal address of company |
| location |  | Character varying | 50 | Location of company |
| userid | Foreign key | integer | 11 | Identify of user |

**Table 9: Committee table details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Columns** | **Constraints** | **Data type** | **Size** | **Description** |
| committeeid | Primary key | Integer (AI) |  | Uniquely identify committee member |
| committeefirstname | Foreign key | Character varying | 15 | Identify of committee member first name |
| committeelastname | Foreign key | Character varying | 15 | Identify of committee member last name |
| committeeemail | Foreign key | Character varying | 50 | Identify of committee member email |
| committeecontact | Foreign key | Character varying | 10 | Identify of committee member contact |
| committeedpt | Foreign key | Character varying | 15 | Identify of committee member department |
| role |  | smallint | 4 | Role of committee member |
| userid | Foreign key | integer | 11 | Identify of user |

**E-R DIAGRAM**

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Evaluation

Company

Adds

Users

Creates

AwardTender

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Creates

Bid

Creates

Tender

Manages