**User Entity**

* **Description:** Represents individuals who interact with the system.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description |
| UserID | INT | Primary Key |
| FullName | VARCHAR(50) | Full name of the User |
| AdvisorID | int | Key of the Advisor |
| Email | VARCHAR(100) | Email address |
| Password | VARCHAR(255) | Encrypted password |
| ContactNumber | VARCHAR(20) | Contact number |
| Hiredate | DATE | **Hire date of the User (for Advisors And Admins)** |
| Address | VARCHAR(255) | Address |
| CreatedDate | DATETIME | Date and time of record creation |
| GPA | DECIMAL(3,2) | Grade Point Average |
| Major | VARCHAR(50) | Major field of study |
| RoleUser | VARCHAR(50) | Role of User (Student ,Advisor , Admin) |
| Student\_Number | VARCHAR(500) | Student Number |

**Application Entity**

* **Description:** Represents applications submitted by users to participate in training Organization.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description |
| ApplicationID | INT | Primary Key |
| UserID | INT | Foreign Key referencing User(UserID) |
| TrainingOrganizationID | INT | Foreign Key referencing TrainingOrganization(**OrganizationID**) |
| ApplicationDate | DATE | Application date |
| Status | VARCHAR(20) | Application status (e.g., Pending, Accepted, Rejected) |
| ApplicationNotes | TEXT | Additional application notes |

**TrainingOrganization Entity**

* **Description:** Represents organizations that offer training programs.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description |
| OrganizationID | INT | Primary Key |
| OrganizationName | VARCHAR(100) | Name of the organization |
| ContactInformation | VARCHAR(255) | Contact details |
| Description | TEXT | Description |
| addresse | VARCHAR(500) | addresse |
| city | VARCHAR(500) | city |
| responsable | VARCHAR(500) | Responsible of Organization |
| Phone\_number | VARCHAR(500) | Phone Number |
| change\_ | VARCHAR(500) | Paiment Method |
| Website | VARCHAR(10) | Web Site of Organization |
| File | VARCHAR(500) | Path of description file |
| Email | VARCHAR(500) | Email of Organization |

**TrainingProgram Entity**

* **Description:** Represents training programs offered by organizations.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description |
| TrainingProgramID | INT | Primary Key |
| OrganizationID | INT | Foreign Key referencing TrainingOrganization(OrganizationID) |
| ProgramName | VARCHAR(100) | Name of the training program |
| Description | TEXT | Description of the program |
| StartDate | DATE | Program start date |
| EndDate | DATE | Program end date |
| Fee | DECIMAL(10,2) | Program fee |
| Capacity | INT | Maximum number of participants |
| Prerequisites | TEXT | **Prerequisites** |

**Evaluation Entity**

* **Description:** Represents evaluations of training programs by users.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description |
| EvaluationID | INT | Unique identifier for each evaluation |
| UserID | INT | Foreign Key referencing User(UserID) |
| TrainingProgramID | INT | Foreign Key referencing TrainingProgram(TrainingProgramID) |
| Rating | INT | Rating given by the user to Question 1 |
| Rating2 | INT | Rating given by the user to Question2 |
| Rating3 | INT | Rating given by the user to Question3 |
| Rating4 | INT | Rating given by the user to Question4 |
| Rating5 | INT | Rating given by the user to Question5 |
| Rating6 | INT | Rating given by the user to Question6 |
| Feedback | TEXT | Feedback provided by the user |
| EvaluationDate | DATETIME | Date and time when the evaluation was submitted |

**TechnicalSupport Entity**

* **Description:** Represents technical support tickets or inquiries.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description |
| TicketID | INT | Primary Key |
| UserID | INT | Foreign Key referencing User(UserID) |
| Subject | VARCHAR(100) | Ticket subject |
| Description | TEXT | Detailed description of the issue |
| Status | VARCHAR(20) | Ticket status (e.g., Open, Closed, In Progress) |
| CreatedDate | DATETIME | Date and time of ticket creation |
| ResolvedDate | DATETIME | Date and time of ticket resolution (optional) |
| AdminID | INT | Foreign Key referencing Admin(AdminID) (optional) who solve the problem |

**Report Entity**

* **Description:** Represents reports handed upon successful completion of a training program.

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description |
| ReportID | INT | Unique identifier for each report |
| UserID | INT | Foreign Key referencing User(UserID) |
| TrainingProgramID | INT | Foreign Key referencing TrainingProgram(TrainingProgramID) |
| Status | VARCHAR(50) | Report status (e.g., Pending, Approved, Rejected) |
| CreatedDate | DATETIME | Date and time when the report was created |
| File | BLOB | The report file itself |
| AdvisorID | INT | Foreign Key referencing User(UserID) advisor who set the mark |
| mark | VARCHAR(50) | The Report mark |
| date\_mark\_set | Datetime | Date Setting the mark |

**Notification Entity**

* **Description:** Represents Notification kept for admins

|  |  |  |
| --- | --- | --- |
| Column Name | Data Type | Description |
| id | INT | Unique identifier for each report |
| description | TEXT | Description of Action |
| date\_ | DATETIME | Date |
| user\_name | VARCHAR(50) | User Name |

**Core Relationships**

* **User - Application:** Zero-to-Many (0:N) - A user can submit multiple applications or none, but an application belongs to only one user.
* **User - Evaluation:** Zero-to-Many (0:N) - A user can submit multiple evaluations or none, but an evaluation belongs to only one user.
* **User - TechnicalSupport:** Zero-to-Many (0:N) - A user can submit multiple support tickets or none, but a ticket belongs to only one user.
* **User - Report:** Zero-to-Many (0:N) - A user can receive multiple reports or none, but a report belongs to only one user.
* **TrainingOrganization - TrainingProgram:** One-to-Many (0:N) - An organization can offer multiple training programs, but a training program belongs to only one organization.
* **TrainingProgram - Application:** Zero-to-Many (0:N) - A training program can have multiple applications or none, but an application belongs to only one training program.
* **TrainingProgram - Evaluation:** Zero-to-Many (0:N) - A training program can have multiple evaluations or none, but an evaluation belongs to only one training program.
* **TrainingProgram - Report:** Zero-to-Many (0:N) - A training program can have multiple report issued or none, but a report belongs to only one training program.