|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **ADMIN** |  |  |
| Field Name | Data Type | Field Size | Constraint | Description |
| Id | INT | 11 | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the admin |
| FirstName | VARCHAR | 50 | NOT NULL | The first name of the admin |
| LastName | VARCHAR | 50 | NOT NULL | The last name of the admin |
| Email | VARCHAR | 100 | NOT NULL, UNIQUE | The email address of the admin |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **USER** |  |  |
| Field Name | Data Type | Field Size | Constraint | Description |
| Id | INT | 11 | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the user |
| Username | VARCHAR | 50 | NOT NULL, UNIQUE | The username chosen by the user |
| Password | VARCHAR | 255 | NOT NULL | The hashed password for the user's account |
| Role | ENUM | N/A | NOT NULL | The role of the user (e.g., 'admin', 'student') |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | | **STUDENT**  **INFO** |  | |  | |
| Field Name | | Data Type | | Field Size | Constraint | | Description | |
| Id | | INT | | 11 | PRIMARY KEY, AUTO\_INCREMENT | | Unique identifier for the user | |
| StudentID | | VARCHAR | | 20 | NOT NULL, UNIQUE | | The student ID of the user | |
| FirstName | | VARCHAR | | 50 | NOT NULL | | The first name of the user | |
| LastName | | VARCHAR | | 50 | NOT NULL | | The last name of the user | |
| Email | | VARCHAR | | 100 | NOT NULL, UNIQUE | | The email address of the user | |
|  |  | | **CALENDAR** | | |  | |  |
| Field Name | Data Type | | Field Size | | | Constraint | | Description |
| Id | INT | | 11 | | | PRIMARY KEY, AUTO\_INCREMENT | | Unique identifier for the calendar entry |
| Date | DATE | | N/A | | | NOT NULL | | The specific date for the calendar entry |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **SUBJECT** |  |  |
| Field Name | Data Type | Field Size | Constraint | Description |
| Id | INT | 11 | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the subject |
| Name | VARCHAR | 100 | NOT NULL, UNIQUE | The name of the subject |
| Description | TEXT | N/A | NULL | A detailed description of the subject |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **SCHEDULE** |  |  |
| Field Name | Data Type | Field Size | Constraint | Description |
| Id | INT | 11 | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the schedule entry |
| SubjectId | INT | 11 | FOREIGN KEY, NOT NULL | Identifier for the subject associated with the schedule |
| StartTime | DATETIME |  | NOT NULL | The start time of the scheduled event |
| EndTime | DATETIME |  | NOT NULL | The end time of the scheduled event |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **POMODORO**  **SESSION** |  |  |
| Field Name | Data Type | Field Size | Constraint | Description |
| Id | INT | 11 | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the Pomodoro session |
| StudentID | VARCHAR | 20 | NOT NULL | The student ID associated with the session |
| StartTime | DATETIME |  | NOT NULL | The start time of the Pomodoro session |
| EndTime | DATETIME |  | NOT NULL | The end time of the Pomodoro session |
| BreaksTaken | INT |  | DEFAULT 0 | Number of breaks taken during the session |
| TotalAccumulatedTime | INT |  | DEFAULT 0 | Total accumulated time in seconds |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **TODO**  **LIST** |  |  |
| Field Name | Data Type | Field Size | Constraint | Description |
| Id | INT | 11 | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the todo list item |
| Date | DATE |  | NOT NULL | The date for the todo list item |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **TODOLIST**  **ITEM** |  |  |
| Field Name | Data Type | Field Size | Constraint | Description |
| Id | INT | 11 | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the todo list item |
| TodoListID | INT | 11 | FOREIGN KEY, NOT NULL | Identifier for the todo list to which the item belongs |
| Description | TEXT |  | NOT NULL | Description or details of the todo list item |
| isCompleted | BOOLEAN |  | DEFAULT false | Indicates whether the todo item is completed or not |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **GAMIFICATION**  **SYSTEM** |  |  |
| Field Name | Data Type | Field Size | Constraint | Description |
| Id | INT | 11 | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the gamification record |
| StudentId | VARCHAR | 20 | NOT NULL | Identifier for the student associated with the gamification progress |
| ProgressPoints | INT |  | DEFAULT 0 | Points indicating the progress in gamification |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **TITLE** |  |  |
| Field Name | Data Type | Field Size | Constraint | Description |
| Id | INT | 11 | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each title record |
| GamificationSystemId | INT | 11 | FOREIGN KEY, NOT NULL | Identifier linking the title to a gamification system |
| Title | VARCHAR | 100 | NOT NULL | The title associated with the gamification |
| DateAwarded | DATE |  | NOT NULL | The date when the title was awarded |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **CERTIFICATE** |  |  |
| Field Name | Data Type | Field Size | Constraint | Description |
| Id | INT | 11 | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each certificate record |
| GamificationSystemId | INT | 11 | FOREIGN KEY, NOT NULL | Identifier linking the certificate to a gamification system |
| Title | VARCHAR | 100 | NOT NULL | The certificate associated with the gamification |
| DateAwarded | DATE |  | NOT NULL | The date when the certificate was awarded |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **BADGE** |  |  |
| Field Name | Data Type | Field Size | Constraint | Description |
| Id | INT | 11 | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each badge record |
| GamificationSystemId | INT | 11 | FOREIGN KEY, NOT NULL | Identifier linking the badge to a gamification system |
| Title | VARCHAR | 100 | NOT NULL | The badge associated with the gamification |
| DateAwarded | DATE |  | NOT NULL | The date when the badge was awarded |