

**Student Management Development Club System**

**Team Members:**

1. Mohammed Khaled Al-Sanabani
2. Abdullah Essam Al-Aswani
3. Wegdan Abdulkarem Al-Haji
4. Al-Hassan Zabarah

**Supervisor:**

Dr. Hany Al-Ghaithi

**Entity Relationship Diagram**

Students

Student Mark

S\_ID PK

S\_Name

S\_Gender

S\_DoB

S\_Phone

S\_Address

S\_ParentNumber

Employees

E\_ID PK

E\_Name

E\_Gender

E\_DoB

E\_Phone

E\_Address

E\_Role

E\_User\_Name

E\_Password

Courses

Course Session

Student Course Association

SC\_ID PK

S\_ID FK

C\_ID FK

CS\_ID FK

SM\_ID PK

S\_ID FK

C\_ID FK

S\_Mark

S\_Description

C\_ID PK

C\_Name

C\_Description

C-hours

CS\_ID PK

C\_Id FK

C\_startDate

C\_endDate

**Data Dictionary**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | Type | Size (byte) | Description |
| **Students** | | | |
| Student\_ID | Number (unsigned Smallint) |  | Primary key  Unique id for student |
| First Name student | Characters (varchar) | 30 | First name of the student |
| Last Name student | Characters (varchar) | 30 | Last name of the student |
| Data of birth | Date |  | The birthday of the student |
| Gender | Characters (Char) | 2 | The gender of the student |
| Phone | Characters (varchar) | 15 | The phone number of the student |
| ParentNumber | Characters (varchar) | 15 | The parent phone number of the student |
| Address | Characters (varchar) | 150 | The physical address of the student |

|  |  |  |  |
| --- | --- | --- | --- |
| **Courses** | | | |
| Course\_ID | Number (unsigned Smallint) |  | Primary key  Unique id for Course |
| Name Course | Characters (varchar) | 30 | The name of the course |
| Description Course | Characters (varchar) | 200 | Description of the course |
| Hours | Number (unsigned Smallint) |  | The hours that the course will take |
| **Employees** | | | |
| Employees\_ID | Number (unsigned Smallint) |  | Primary key  Unique id for Employee |
| First name | Characters (varchar) | 30 | First name of the employee |
| Last name | Characters (varchar) | 30 | Last name of the employee |
| Gender | Characters (Char) | 2 | The gender of the employee |
| Address | Characters (varchar) | 150 | The physical address of the employee |
| Phone | Characters (varchar) | 15 | The number of the employee |
| Data of birth | Date |  | The birthday of the employee |
| Role | Characher(varchar) | 12 | The roll of employee |
| Password | Character(varchar) | 100 | The password of employee |
| **Student’s Mark** | | | |
| SM-ID | Number (unsigned Mediumint) |  | Primary key  Unique id for student mark |
| S\_ID | Number (unsigned Smallint) |  | Foreign key  Student id |
| C\_ID | Number (unsigned Smallint) |  | Foreign key  Course id |
| Student Mark | Number(tinyint) |  | Mark of the student |
| Description | Characters (varchar) | 50 | Description of the student’s mark ex: good, bad etc. |
| **Student Course Association** | | | |
| SC\_ID | Number (unsigned Smallint) |  | Primary key  Unique id for student course |
| S\_ID | Number (unsigned Smallint) |  | Foreign key  Student id |
| C\_ID | Number (unsigned Smallint) |  | Foreign key  Course id |
| CS\_ID | Number (unsigned Smallint) |  | Foreign key  Course session id |

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Session** | | | |
| CS\_ID | Number (unsigned Smallint) |  | Primary key  Unique id for course session |
| C\_ID | Number (unsigned Smallint) |  | Foreign key  Course id |
| C\_StartDate | Date |  | Staring date of the course |
| C\_EndDate | Date |  | Ending date of the course |