**A Simple School Management System Application**

In this section we have describe a simple database application called school management system , The school database keep track of school record which include student, teachers, admin, attendance , student grade, feese , Time table and librarian . the database designer provide the following description

There are four type of main user will be involved in the school management system

* **Admin**
* **Student**
* **Teacher**
* **Librarian**

**Admin:**

Admin is the person who control the whole school management system and the things associates with it .

In other words adim is the most powerful entity of the system

* He / She has the power of create , delete , update any record of the system
* He / She can view any profile of the system
* Whenever a student is registered into school. Class and related section will be assigned by the admin
* He / She can assigned time table to student and teacher
* He / She will approved any leave to student or teacher
* He / She will give salary to Teacher

**Teacher:**

Teacher is one of the important entity of the system He/ She is use to teach the student

Some feature of teacher

* A Teacher can mark the attendance of the student . hw will just log in and enter the section
* Teacher can view student profile
* Teacher will assign grade and marks to student

**Student:**

Student is one of the important entity of the system

* Can view there Marks
* Can view there Time Table
* Apply for leave
* Can view there attendance

**Librarian:**

the librarian will keep the record of the information about the books. he/ she will have the authority to issue any book to student or the teacher. he/she will have the information about books are available in the system or not

School Entity:

* A School Contain a Admin as a entity which control overall everything of the system a admin has a login in he can update , add , delete any record of the school which include student , teacher , librarian , Time Table attribute “ name, age, gender,ID,email, “
* A School Contain Teacher as a entity which has a login and its attribute are “ Teacher Id, Teacher Name, Teacher Subjects , Gender,

Salary , Classroom , Email , Home Address, Timing , Date of birth“.

* A School Contain Student as a entity which as a login and its attribute are “ Student Name, Student Roll NO, Student Class, Student Subjects , student timing, Student gender , Student age , Student grade, Student Date of birth, Student Address “ .
* A School Contain Subjects which as attribute like “ Subject Id,

Subject Name”.

* A School Contain Time table which include “ Subject Id, lecture Id,

Class Id and Timing as a field”.

* A School Contain Attendance as a attribute which involved”

Student Id , Teacher Id , absent as a field”.

* A School Contain fees per class attribute “ Class Id, Student id, Fees as a field”.
* A School Contain Library which include Library Member and Books

Attribute of Member”Member Name, Member Id, Member Email, Member Gender” attribute of books “ Book Id , Book name, Publisher Name, Author Name, “ and there should be a field of borrower name which include Teacher and Student

**School Tables:**

**Teachers table**

|  |  |
| --- | --- |
| Teacher Id | Primary Key |
| Teacher Name | Not null |
| Teacher Subjects | Foreign key |
| Teacher class | Foreign key |
| email | Not null |
| gender | Not null |
| salary | Not null |
| age | Not null |
| Teacher Timing | Foreign key |

**Student Table**

|  |  |
| --- | --- |
| Student id | Primary key |
| Student name | Not null |
| Gender | Not null |
| Age | Not null |
| DOB | Not null |
| Student Grade |  |
| Student subjects | Foreign key |
| Student timing | Foreign key |
| Student Class | Foreign key |
| Student address | Not null |

**Time table**

|  |  |
| --- | --- |
| Subject ID | Foreign key |
| Class ID | Foreign key |
| Timing | Not null |

**Attendance table**

|  |  |
| --- | --- |
| Student ID | Foreign key |
| Teacher ID | Foreign |
| Absents | Not null |

**Fees Table**

|  |  |
| --- | --- |
| Class ID | Foreign key |
| Student ID | Foreign key |
| Discount type | Not null |
| Fees | Not null |

**Library Member table**

|  |  |
| --- | --- |
| Member ID | Primary key |
| Member name | Not null |
| Member Email | Not null |
| Member Gender | Not null |

**Library Books table**

|  |  |
| --- | --- |
| Book ID | Primary key |
| Book Name | Not Null |
| Publisher Name | Not null |
| Author Name | Not Null |

**Library table**

|  |  |
| --- | --- |
| Members ID | Foreign |
| Books\_ID | Foreign key |
| Student ID | Foreign key |
| Teacher ID | Foreign key |

**Subject table**

|  |  |
| --- | --- |
| Subject ID | Primary key |
| Subject Name | Not null |

**Class Table**

|  |  |
| --- | --- |
| Class Id | Primary key |
| Room No | Not null |