**CASE STUDY**

**SCHOOL MANAGEMENT SYSTEM**

Schools are pillars of the modern education system. They are the point of first contact for many kids to the outside world. And, it may not be wrong to say that schooling plays a major role in shaping a child's personality, so it is important that schools have a good infrastructure to closely monitor and manage children's interests, passions, and obviously their academics. For this we made a simple data base system called school management system. SMS contain following functionalities student, teacher, subject, class, section, timetable, fee structure, fee, result. School Management System (EMS) is such a service which provides all services for an educational institute to make your life easier and faster by assuring its performance. Here is some detail about all the functionalities.

One of the main entity of SMS is student. Student contain student\_id primary key, name, DOB, gender, cl\_id which is a foreign key from class and reg\_date.

Another main entity is teacher. Teacher contain teacher\_id primary key, name, cnic, DOB, salary, and designation.

Subject contain subject\_id as primary key in table, cl\_id which is a foreign key from class, and title, and group.

Class is a small entity which contain only two attributes class\_id as primary key and class fee.

Section contains section\_id, name, no\_of\_student, and class\_id as foreign key.

Timetable is another important entity it contains room no, teacher\_id as foreign key from teacher, section\_id as foreign key from section, time and day.

Fee structure contain only two attributes class\_id and fee.

Fee contains subject\_id, from subject as foreign key, class\_id, fine, discount, discount type, and charges, and in the end total fee.

Result one of the most important entity it contain student\_id from student as foreign key from student, subject\_id, grades, no\_of\_different\_terms, and total number.