**Conceptual Schema**

In this section we describe a database application, called **School Management System** which serves to illustrate the basic ER model concepts and their use in schema diagram. We list the data requirements for the database here and then create its conceptual schema step by step as we introduce the modeling concepts of ER model.

The school’s database keeps track of the students, teachers and related fields. It tells the student about the daily working tasks ,one will find his own marks, debtsAfter the requirement collection and analysis phase the database designer provides the following description which is the part of School Management System that will be represented in the database.

* A school management system is organized into students in which student’s name, cnic, address is managed. We keep track of the admission date as well when student joined the school. Student has a unique ID. Along with this the record of students fee structure is also kept in which monthly fee, fine, discounts and basics have been managed and is updated on monthly basis.
* Database will keep record of every Teacher along with its subject which he/she teaches to the students along with a proper Timetable.
* The database will store students Timetable having RoomNo, Timings and ID. In addition to it database will have ID, TID(teacher’s id), SID(subject ID) and subject of every student studying a course from its respective teacher.
* Database will keep track of students Result which keeps all the record of students total marks, grade and students performance.
* Furthermore database will keep track of student’s Guardian for security purpose including guardian’s name, cnic and sid(which is a foreign key references to id in students).