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**Section B**

**School Management System(SMS)**

**Here we are going to design and develop a Database for the School to maintain records of regular students, newly admitted students, teachers, courses, semesters, student’s annual grades and other staff members etc.**

**Table Description:**

Following are the tables along with constraints used in School Management System.

* **Student**: The Database contains table which consists of details about students in the school. Each student has unique student id (number), First name (string), Last name (string), Roll no (number), Gender (character), Date of Birth (date), Phone number (number), Email Address (string), Password(string), CNIC (number), Father Name(string), Father’s CNIC(number), Temporary address (string), Permanent address (string), Parent id(number), Parent contact number (number), Date of joining (date).
* **Teacher**: This database will store table consists of details about teachers in the school. Each Teacher has its unique teacher id (number), name (string), Gender (character), Phone number (number), Email (string), CNIC (number), Address (string), Salary (number), Qualification (string), Date of joining (date).
* **Courses**: In this database courses table consists of details about courses. Each course has unique course id, course name (string), description (string), grade id(number).
* **Fees**: This Database store table fees which contains student id(number), student annual fee(number), scholarships (number), fine(number).
* **Classroom**: Each classroom has unique classroom id(number), grade id(number), section(number), teacher id(number).
* **Subject**: Each subject has its own unique subject id(number), subject name(string), course id (number).
* **Exam**s: Each exam has its unique exam id(number), Exam type id (number), name (string), subject id(number).
* **Time Table**: This table contains unique timetable id (number), Course id (number), teacher id (number), course name (text), Venue (number), time (time).