**School Management System:**

**Case study:**

School management system consists of tasks such as registering students, attendance record keeping controlling absences, producing report cards, producing official transcript, preparing timetable and producing different reports for teachers and parents.

In current system we need to keep a number of records relayed to the student and the marks manually. In this system only the teacher or the school authority views the mark of the student on

Con-summing and has much cost.

Teacher may want to associate a student with his parent or emergency persons for disciplinary measures which need searching of the students record int the record office. It has been difficult to search a record of thousands of such records and observes that students can take person claiming that he/she is their parent or emergency person which creates problem in control of students.

**Data Flow Diagram:**

**Table design:**

**Student:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| sid | Auto\_number | Primary key |
| fname | text | Not null |
| mname | text | Not null |
| lname | text | Not null |
| P\_name | text | Not null |
| L\_name | text | Not null |
| dob | Date/time | Not null |
| religion | text | Not null |
| Permenent\_address | text | Not null |
| Present\_address | text | Not null |
| gender | text | Not null |
| Phone\_no | number | Not null |
| Cell\_no | number | Not null |
| Emial address | text | Not null |
| Father\_office | text | Not null |
| class | number | Foreign key from class |

**Student Attendence:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Constraints** |
| sid | Number | Foreign\_key(add students) |
| Attendance\_date | Date/Time | Not null |
| Attendance\_status | text | Not null |
| Ddate | text | Not null |
| Academic\_year | Number | Not null |
| class | Number | Not null |
| Division | text | Not null |

**Employee\_Details:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Constraints** |
| eid | Number | Primary key |
| fname | text | Not null |
| mname | text | Not null |
| lname | text | Not null |
| dob | Date/Time | Not null |
| emial | text | Not null |
| occupation | text | Not null |
| gender | text | Not null |
| qualification | text | Not null |
| Father\_name | text | Not null |
| Father pnumber | Number | Not null |
| Father\_office\_address | text | Not null |
| Ephone\_number | Number | Not null |
| address | text | Not null |
| Salary | Number | Notnull |

**Employee\_attendence:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Constraints** |
| eid | Number | Fk(add employee) |
| Attendence\_date | Date/time | Not null |
| Attendence\_status | text | Not null |
| User\_name | Text | Not null |
| Academic\_year | Text | Not null |

**Category\_fee-structure:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| Cat\_id | Number | Fk(Category) |
| Cat-name | Text | Not null |
| class | Number | Not null |
| Fee\_amount | Number | Not null |
| Due date | text | Not null |
| user | text | Not null |
| Academic\_year | text | Not null |

**Category:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| Cat\_id | Number | Primary\_key |
| Cat\_name | text | Not null |
| Academic\_year | text | Not null |

**Class:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| class | Number | Primary key |
| Academic\_year | Text | Not Null |

**Division:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| class | Number | Fk(class) |
| Division id | Number | Primary key |
| Ddate | text | Not null |
| User\_name | text | Not null |
| Academic year | text | Not null |

**Subjects:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| Sub\_id | Number | Primary key |
| Sub\_name | text | Not null |
| marks | Number | Not null |
| Pass\_marks | Number | Not null |
| Academic\_year | Text | Not null |

**Designation:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Constraints** |
| id | Number | Primary\_key |
| designation | Text | Not null |
| Academic\_year | Text | Not null |

**Class\_Subject:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| Sub\_id | Number | Fk(subject) |
| class | Number | Fk(class) |
| Division\_id | Number | Fk(div) |
| Academic\_year | Text | Not null |

**Teachers:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| class | Number | Fk(class) |
| Division\_id | Number | Fk(divion) |
| qid | Number | Fk(qualification) |
| Sub\_id | Number | Fk(subject) |
| teacher | text | Not null |
| Employee\_id | Number | FK(employee) |
| User\_name | text | Not null |
| Academic\_year | Text | Not null |
| ddate | Date/time | Not null |

**Fee Details:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| fid | AutoNumber | Primary\_key |
| sid | Number | Fk(student) |
| ftype | text | Not null |
| installement | Number | Not null |
| user | text | Not null |
| Cashier\_name | text | Not null |
| Paying\_mode | text | Not null |
| Bank\_name | text | Not null |
| remarks | Text | Not null |
| Total\_fee | Number | Not null |
| Fees\_paid | Number | Not null |
| Paid\_by | text | Not null |
| status | text | Not null |

**Exams:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| exid | number | Primary key |
| Exam\_name | text | Not null |
| Out\_of | Number | Not null |
| date | Text | Not null |
| User\_name | Text | Not null |
| Academic\_year | text | Not null |

**Exam\_Date:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Connstraint** |
| Exam\_id | Number | Fk(exam) |
| date | text | Not null |
| End\_date | text | Not null |
| class | Number | Fk(class) |
| did | Number | Fk(division) |
| Ex\_rec\_id | Number | Not null |
| Academic\_year | text | Not null |

**Exams\_Sub\_Timetable:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| id | Number | Fk(exam timetable) |
| Sub\_id | Number | FK(Subjects) |
| Sub\_name | text | Not null |
| Exdate | text | Not null |
| Academic year | text | Not null |

**Working\_Days:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraint** |
| Day\_id | Number | Primay\_key |
| day | text | Not null |

**Exam\_ Marks:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Constraints** |
| sid | Number | Fk(student) |
| Exam\_id | Number | Fk(exam) |
| subject | text | Not null |
| marks | Number | Not null |
| outof | Number | Not null |
| Exam\_date | text | Not null |
| Sub\_id | Number | Fk(subjects) |
| User\_name | text | Not null |
| Academic Year | text | Not null |