***PHYSICAL SCHEMA***

**Data Flow Diagram:**

**Table design:**

**Student Attendance:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Constraints** |
| SID | Number | Foreign key(add students) |
| Attendance date | Date/Time | Not null |
| Attendance status | text | Not null |
| Date | text | Not null |
| Academic year | Number | Not null |
| class | Number | Not null |
| Division | text | Not null |

**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 |

**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 |

**Category\_fee-structure:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Constraints** |
| Cat\_id | Number | (Category) Fk |
| 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 |

**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 |

**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 |

**Category:**

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

**Designation:**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Constraints** |
| id | Number | Primary\_key |
| designation | 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 |

**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 |

**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 |

**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 |

**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 |

**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 |

**Working\_Days:**

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