**TABLE DESIGN**

Table 1:login\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| login\_id | int | Primary key | Primary key |
| username | varchar(15) | Not null | Username |
| password | varchar(15) | Not null | Password |
| usertype | varchar(11) | Not null | User type |

Table 2:college\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data type** | **Constraints** | **Description** |
| college\_id | int | Primary key | Primary Key |
| login\_id | int | Foreign key | Login id |
| collegename | varchar(15) | Not null | Name of college |
| place | Varchar(15) | Not null | Place of college |
| pincode | Varchar(6) | Not null | Pincode |
| email | int | Not null | College email id |
| phone | bigint | Not null | Phone no of college |

Table 3:department\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| department\_id | int | Primary key | Department id |
| deptname | varchar(20) | Not null | Department name |

Table 4:course\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| course\_id | int | Primary key | Course id |
| department\_id | int | Foreign key | Department id |
| cname | varchar(20) | Not null | Course name |
| total\_sem | varchar(15) | Not null | Total semesters |
| type | varchar(15) | Not null | Type of course |

Table 5:course\_college\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| id | int | Primary key | Course id of colleges |
| course\_id | int | Foreign key | Course id |
| college\_id | int | Foreign key | College id |

Table 6:student\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| stud\_id | int | Primary key | Primary key |
| login\_id | int | Foreign key | login id |
| course\_id | int | Foreign key | Course id of college |
| college\_id | int | Foreign key | College id |
| fnarme | varchar(15) | Not null | First name of student |
| sname | varchar(15) | Not null | Seconname of student |
| gender | varchar(6) | Not null | Gender of student |
| dob | date | Not null | Date of birth |
| place | varchar(20) | Not null | Place of student |
| pincode | varchar(6) | Not null | Pin code |
| email | varchar(15) | Not null | Email id of student |
| mobile\_no | bigint | Not null | Mobile number |
| reg\_no | varchar(15) | Not null | Register number |
| semester | varchar(10) | Not null | Semester of student |
| batch | varchar(10) | Not null | Batch of student |
| img | varchar(20) | Not null | Image of student |

Table 7:cipher\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| cipher\_id | int | Primary key | Primary key |
| stud\_id | int | Foreign key | Student id |
| measurement | varchar(20) | Not null | Measurement |
| privatekey | varchar(20) | Not null | Private key |
| publickey | varchar(20) | Not null | Public key |

Table 8: attendance\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| att\_id | int | Primary key | Attendance id |
| stud\_id | int | Foreign key | student id |
| present | varchar(10) | Not null | Number of days present |
| totaldays | varchar(10) | Not null | Total working days |
| percentage | varchar(10) | Not null | Percentage of attendance |

Table 9:subject\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| subject\_id | int | Primary key | subject id |
| course\_id | int | Foreign key | course id |
| subname | varchar(20) | Not null | Subject name |
| subcode | varchar(10) | Not null | Subject code |
| sem | varchar(10) | Not null | Semester |
| internalmark | varchar(15) | Not null | Internal mark of subject |
| externalmark | varchar(15) | Not null | External mark of subject |

Table 10:exam\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| exam\_id | int | Primary key | exam id |
| course\_id | int | Foreign key | Course id |
| examname | varchar(20) | Not null | Name of exam |
| Year | varchar(10) | Not null | Year of exam |
| message | varchar(30) | Not null | Notification about exam |
| semester | varchar(15) | Not null | Semester of exam |

Table 11: mark\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| mark\_id | int | Primary key | mark id |
| stud\_id | int | Foreign key | Student id |
| subject\_id | int | Foreign key | Subject id |
| stud\_internalmark | varchar(15) | Not null | Internal mark |
| stud\_externalmark | varchar(15) | Not null | external mark |
| totalmark | varchar(15) | Not null | Total mark |
| status | varchar(10) | Not null | Status of student |

Table 12:timetable\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| timetable\_id | int | Primary key | timetable id |
| subject\_id | int | Foreign key | Subject id |
| exam\_id | int | Foreign key | exam id |
| date | date | Not null | Date of exam |
| time | varchar(10) | Not null | Time of exam |

Table 13:exam\_register\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| sid | int | Primary key | Exam register id |
| stud\_id | int | Foreign key | student id |
| timetable\_id | int | Foreign key | timetable id |

Table 14:hallticket\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| hid | int | Primary key | Student hall ticket id |
| stud\_id | int | Foreign key | student id |
| exam\_id | int | Foreign key | exam id |
| sid | int | Foreign key | Exam register id |
| hallticket | varchar(20) | Not null | Hall ticket of student |

Table 15:certificate\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| certificate\_id | int | Primary key | Student certificate id |
| stud\_id | int | Foreign key | student id |
| certificate | varchar(20) | Not null | Certificate of student |
| date | date | Not null | Date of certificate |
| status | varchar(10) | Not null | Status of certificate |

Table 16:verifier\_tbl

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Constraints** | **Description** |
| verifier\_id | int | Primary key | Verifier id |
| login\_id | int | Foreign key | Login id |
| verifier\_name | varchar(15) | Not null | Name of verifier |
| place | varchar(15) | Not null | Place of verifier |
| email | varchar(15) | Not null | Email id of verifier |
| phoneno | varchar(20) | Not null | Phone number of verifier |