Grading Automation System

**ER Diagram:**

have

gradewindow

have

controlsheet

courses

have

users

**Database Schema:**

|  |  |  |
| --- | --- | --- |
|  | users |  |
| Attribute | **Type** | **Remark** |
| id | INT | Auto Increment, Primary Key |
| username | VARCHAR(25) | Not Null |
| email | VARCHAR(30) | Not Null |
| Password | VARCHAR(20) | Not Null |

|  |  |  |
| --- | --- | --- |
|  | courses |  |
| Attribute | **Type** | **Remark** |
| id | INT | Foreign Key, Not Null |
| course\_name | VARCHAR(50) | Not Null |
| course\_code | VARCHAR(20) | Primary Key, Not Null |
| batch | VARCHAR(20) | Not Null |
| semester | VARCHAR(20) | Not Null |
| mct1 | INT | Not Null |
| mct2 | INT | Not Null |
| mct3 | INT | Not Null |
| mct4 | INT | Not Null |
| mmt1 | INT | Not Null |
| mmt2 | INT | Not Null |
| mta | INT | Not Null |
| met | INT | Not Null |
| mt | INT | Not Null |

|  |  |  |
| --- | --- | --- |
|  | controlsheet |  |
| Attribute | **Type** | **Remark** |
| course\_code | VARCHAR(20) | Foreign Key, Not Null |
| roll\_no | VARCHAR(20) | Not Null |
| name | VARCHAR(20) | Not Null |
| class\_test\_1 | INT | Not Null |
| class\_test\_2 | INT | Not Null |
| class\_test\_3 | INT | Not Null |
| class\_test\_4 | INT | Not Null |
| mid\_term\_1 | INT | Not Null |
| mid\_term\_2 | INT | Not Null |
| total\_assessment | INT | Not Null |
| end\_term | INT | Not Null |
| total\_marks | INT | Not Null |
| grade | VARCHAR(5) | Nullable |
| Primary Key: (course\_code,roll\_no) | | |

|  |  |  |
| --- | --- | --- |
|  | gradewindow |  |
| Attribute | **Type** | **Remark** |
| course\_code | VARCHAR(20) | Foreign Key, Not Null |
| grade | VARCHAR(5) | Not Null |
| lower\_cutoff | FLOAT | Not Null |
| upper\_cutoff | FLOAT | Not Null |
| no\_of\_students | INT | Nullable |
| Primary Key: (course\_code,grade) | | |