Database

**Tables (Done):**

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Student

Course Master  
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Weightage  
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Chat Log (Faculty and Faculty)  
Chat Log (Faculty and Student)

**Tables (Pending):**

Role Allocation  
Access Privileges  
Login/Authentication Table

# **Faculty and Student**

# **Faculty**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FID | Name | Phone. Number | Type | Other Details |

FID : Id of Faculty (PK)  
Name : Name of Faculty  
Ph. Number : Phone Number  
Type : Type of Faculty (Restricted, ex H for HoD, C for Counsellor, etc.)  
Other Det : More columns acc to requirements (mail id, etc.)

# **Student**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SID | Name | Email id | Couns. ID | Adv. ID | Other Details |

SID : Student ID (PK)  
Name : Name of Student  
Email ID : email id of student  
Couns ID : ID of counsellor (FK, refers to FID in Faculty table, type must be C)  
Adv. ID : ID of advisor (FK, refers to FID in faculty table, type must be A)  
Other Details : As required by project (Parent name, address, photo, etc.)

# **Courses and Evaluation**

# **Course\_Master**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Year | Course Code | Category | Credits | L T P | Title |

Year : Year of syllabus publication (Composite PK)  
Course Code : Course Code, eg: CSE360 (Composite PK)  
Category : H for Humanities, E for Engineering, etc.  
Credits : Credits allocated for this course  
L T P : Three values, giving (Lecture hrs, Tutorial hrs, Practical hrs)

# **Currently Running Courses**

|  |  |  |
| --- | --- | --- |
| Course Number | (Year, Course Code) | ES (??) |

Course Number : Unique ID (PK)  
(Year, Course Code) : FK refers Course Master  
ES : Mentioned in Course book and excel sheet, no description… (??)

# **Course Faculty Allocation**

|  |  |
| --- | --- |
| C. No | FID |

C. No : Course Number (FK, refers Currently Running Courses) (Comp. PK)  
FID : Faculty assigned to this course (FK refers Faculty Table) (Comp. PK)

# **Course Student Allocation**

|  |  |
| --- | --- |
| C. No | SID |

C. No : Course Number (FK, refers Currently Running Courses) (Comp. PK)  
SID : Student assigned to this course (FK refers Student Table) (Comp. PK)

# **Weightage**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year, CID | Periodical I | Periodical II | Continuous Eval. | End Semester |

Year, CID : (FK refers Master Course Table) (PK)  
Periodical I : Weightage of Periodical I  
Periodical II : Weightage of Periodical II  
Continuous Eval : Weightage of Continuous Eval.  
End Semester : Weightage of End Semester Exams

# **Student\_grading**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SID | C No | Periodical I | Periodical II | C. Eval | End Sem | Grade |

SID : Student ID (FK refers Student Table) (Composite PK)  
C No : Course Number (FK refers currently running courses) (Composite PK)  
Periodical I : Marks (weighted in Periodical I)  
Periodical II : Marks (weighted in Periodical II)  
Contin. Eval : Marks (weighted) in Contin. Eval  
End Semester : Marks (weighted) in End Sem   
Grade : Final Grade (Initially NULL)

# **Notifications**

# **Notification Master**

|  |  |  |
| --- | --- | --- |
| NID | Message | Timestamp |

NID : Notification ID (PK)  
Message : Message of the Notification  
Timestamp : Time of adding notification

# **Faculty\_Notification**

|  |  |
| --- | --- |
| FID | NID |

FID : Faculty ID (FK refers Faculty Table) (Composite PK)  
NID : Notification ID (FK refers Notification Master) (Composite PK)

# **Student\_Notification**

|  |  |
| --- | --- |
| SID | NID |

SID : Student ID (FK refers Student Table) (Composite PK)  
NID : Notification ID (FK refers Notification Master) (Composite PK)

# **Attendance and Time Table**

# **Master Attendance**

|  |  |  |  |
| --- | --- | --- | --- |
| AID | Course No | Date | Period |

AID : Attendance ID (Primary Key)  
Course No : Which course (Foreign Key, refers Currently Running Courses)  
Date : On which date  
Period : Which Period

# **Leave Table**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| LID | SID | Type | Details | From | To |

LID : Leave ID (Primary Key)  
SID : Student ID (Foreign Key, refers Student Table)  
Type : Type of Leave granted (Duty, Medical, etc)  
From : Start Period of Leave (Date, Period)  
To : End Period of Leave (Date, Period)

# **Absentee Table**

|  |  |  |
| --- | --- | --- |
| AID | SID | LID |

AID : Attendance ID (Foreign Key, refers Master Attendance) (Composite Primary Key)

SID : Student ID (Foreign Key, refers Student Table) (Composite Primary Key)

LID : Leave ID (Foreign Key, refers Leave Table)

# **Time Table**

|  |  |  |
| --- | --- | --- |
| Day | Period | Course No |

Day : Day of the week (Monday, Tuesday, etc.) (Composite PK)  
Period : Which Period of the Day (Composite PK)  
Course No : Course allocated (FK refers Curr. Running Courses) (Composite PK)

Note :- No need of semester etc, as a course may be allocated to multiple semesters in same hour, as well as the fact that a batch’s time table can be extracted by the courses attended by any student in that batch.

# **Chat Log**

# **Faculty to Faculty**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fac. ID 1 | Fac. ID 2 | User1 Send?(Y/N) | Message | Timestamp |

Fac ID 1 : ID of faculty 1 (Refers Faculty Table)

Fac ID 2: ID of faculty 2 (refers Faculty Table)

User1 Send?: Is the sender of msg Fac. ID 1? Yes or No

Message: The chat message

Timestamp: The timestamp of the message

# **Faculty to Student**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Fac. ID | Stud. ID | User1 Send?(Y/N) | Message | Timestamp |

Fac ID: ID of faculty (Refers Faculty Table)

Stud. ID: ID of student (refers Student Table)

User1 Send?: Is the sender of msg Fac. ID? Yes or No

Message: The chat message

Timestamp: The timestamp of the message