Abstract:

1. Create a Studenttable
2. Create the Subjectstable
3. Create the Lecturerstable
4. Create Fee structuretable
5. Create departmentstable

Come up with the different fields each of these tables may hold and a Schema diagram. Need to plan on the Primary key and the Foreign keys.

The association between them to be decided!

Next Steps:

1. Insert records intothem
2. To try out “where, distinct, truncate, alter, between, in, Like, having”clauses.
3. Difference between unique anddistinct
4. To do some Date operations. In one of the above tables to have a datefield!
5. Finally to try out the different join types (Inner, Outer, Left, Rightetc)

# STUDENT TABLE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL NO** | **FIELDS** | **DATA TYPE** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | Student\_Id | Int | Primary key | Unique id for each  student |
| 2 | First\_Name | Varchar |  | First name of the  student |
| 3 | Middle\_Name | Varchar |  | Middle name of the student |
| 4 | Last\_Name | Varchar |  | First name of the  student |
| 5 | DOB | Date |  | Year of birth of the student |
| 6 | Blood\_Group | Varchar |  | Blood group of the student |
| 7 | Aadhar\_No | Int |  | Aadhar Number of the student |
| 8 | Guardian\_Name | Varchar |  | Name of the Guardian |
| 9 | Guardian\_Info | Int |  | Contact number of the Guadian |

**SUBJECT TABLE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL NO** | **FIELDS** | **DATA TYPE** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | Subject\_Id | Int | Primary Key | Unique id for  each subject |
| 2 | Subject\_Name\_1 | Varchar |  | Name of  Subject 1 |
| 3 | Subject\_Name\_2 | Varchar |  | Name of Subject 2 |
| 4 | Total\_Marks | Int |  | Total marks of the Subjects |
| 5 | Student\_Id | Int | Foreign Key | Id of corresponding student |
| 6 | Lecturer\_Id | Int | Foreign Key | Id of corresponding Lecturer |

**LECTURER TABLE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SL NO | FIELDS | DATA TYPE | CONSTRAINT | DESCRIPTION |
| 1 | Lecturer\_Id | Int | Primary Key | Unique id |
| 2 | Lecturer\_Name | Varchar |  | Name of lecturer |
| 3 | YOJ | Date |  | Year of join |
| 4 | Subject\_Id | Int | Foreign Key | Id of corresponding subject |
| 5 | Department\_Id | Int | Foreign Key | Id of corresponding department |

**DEPARMENT TABLE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SL NO | FIELD | DATA TYPE | CONSTRAINT | DESCRIPTION |
| 1 | Department\_Id | Int | Primary Key | Unique id |
| 2 | Department\_Name | Varchar |  | Name of department |
| 3 | Total\_No\_Of\_Faculty | Int |  | Total number of faculty |
| 4 | Hod\_Info | Int |  | Contact number of Hod |
| 5 | Hod\_Name | Varchar |  | Name of Hod |

**FEE STRUCTURE TABLE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SL NO | FIELD | DATA TYPE | CONSTRAINT | DESCRIPTION |
| 1 | Fee\_Amount | Int | Primary Key | Unique id |
| 2 | Due\_Date | Date |  | Due date of fee |
| 3 | Student\_Id | Int | Foreign Key | Id of corresponding student |
| 4 | Student\_Name | Varchar | Foreign Key | Name of corresponding student |

**ER DIAGRAM**

