

Database Design

Table: PinCode

Id(PK)	INT
PinCodeNumber	VARCHAR
StateId(FK)	INT

Table: Country

Id(PK)	INT
Name	VARCHAR

Table: State

Id(PK)	INT
Name	VARCHAR

Table: Address

Id(PK)	INT
Address1	VARCHAR
Address2	VARCHAR
Address3	VARCHAR

CountryId(FK)	INT
StateId(FK)	INT
PinCodeId(FK)	INT

Table:College

Id(PK)	INT
CollegeName	VARCHAR
Email	VARCHAR(unique)
Contact Number	VARCHAR
CollegeStartTime	VARCHAR
CollegeEndTime	VARCHAR
AddressId(FK)	VARCHAR
ActiveStatus	INT

Table:UserType

Id(PK)	INT
Type	VARCHAR
ActiveStatus	INT

Table:Users

Id(PK)	INT
UserName	VARCHAR
Email	VARCHAR(unique)
UserTypeId(FK)	INT
CollegeId(FK)	INT
Contact Number	VARCHAR
AddressId(FK)	VARCHAR
CollegeId(FK)	INT
ActiveStatus	INT

Table: Designation

Id(PK)	INT
Name	VARCHAR
CollegeId(FK)	INT
ActiveStatus	INT

Table: Sem/Class

Id(PK)	INT
Name	VARCHAR
ActiveStatus	INT

Table: Day

Id(PK)	INT
DayName	VARCHAR
ActiveStatus	INT

Table: Departments

Id(PK)	INT
Name	VARCHAR
CollegeId(FK)	INT
ActiveStatus	INT

Table: SubjectSemDepartmentMap

Id(PK)	INT
SubjectId(FK)	INT

DepartmentId(FK)	INT
SemId(FK)	INT
CollegeId(FK)	INT
ActiveStatus	INT

Table: Subjects

Id(PK)	INT
Name	VARCHAR
Marks	INT
ActiveStatus	INT

Table: Students

Id(PK)	INT
UsersId (FK)	INT
RollNumber	VARCHAR(unique)
SemId(FK)	INT
DepartmentId(FK)	INT
ActiveStatus	INT

Table: Faculties

Id(PK)	INT
UsersId (FK)	INT
RollNumber	VARCHAR(unique)
DepartmentId(FK)	INT
DesignationId(FK)	INT
FacultySubjectMapId(FK)	INT
ActiveStatus	INT

Table: FacultiesSubjectMap

Id(PK)	INT
FacultyId (FK)	INT
SubjectId(FK)	VARCHAR
ActiveStatus	INT

Table: TimeTable

Id(PK)	INT
Description	VARCHAR
DaysId (FK)	INT
FacultySubjectMapId(FK)	INT
StartTime	VARCHAR

EndTime	VARCHAR
DepartmentId(FK)	INT
CollegeId(FK)	INT
ActiveStatus	INT

Table: HolidayList

Id(PK)	INT
HolidayDate	VARCHAR
DaysId(FK)	INT
HolidayReason	VARCHAR
CollegeId(FK)	INT

Table: Attendance

Id(PK)	INT
UsersId(FK)	INT
TimeTableId (FK)	INT
PresentAbsenceFlag	INT
CollegeId(FK)	INT
ActiveStatus	INT

Table: MarksTypes

Id(PK)	INT
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Name	INT
MarksAllocated	INT
CollegeId(FK)	INT
ActiveStatus	INT

Table: SubjectMarks

Id(PK)	INT
FacultySubjectMapId(FK)	INT
MarksTypesId(FK)	INT
StudentId(FK)	INT
MarkSecured	INT
CollegeId(FK)	INT
ActiveStatus	INT

Table: AllowedExtensions

Id(PK)	INT
Extension	INT
CollegeId(FK)	INT
ActiveStatus	INT

Table: NotesType

Id(PK)	INT
Name	INT
CollegeId(FK)	INT
ActiveStatus	INT

Table: NotesAllowedExtensionsMap

Id(PK)	INT
NotesTypeId(FK)	INT
AllowedExtensionId(FK)	INT
ActiveStatus	INT

Table: Notes

Id(PK)	INT
Name	VARCHAR
Description	VARCHAR
Links	VARCHAR
SubjectSemDepartmentMapId(FK)	INT
CollegeId(FK)	INT
ActiveStatus	INT

Table: NoticeTypes

Id(PK)	INT
Name	VARCHAR
CollegeId(FK)	INT
ActiveStatus	INT

Table: Notices

Id(PK)	INT
Head	VARCHAR
Description	VARCHAR
Link	VARCHAR
NoticeTypeId(FK)	INT
NoticeDate	VARCHAR
NoticeTime	VARCHAR
ActiveStatus	INT

Table: NoticeVisibility

Id(PK)	INT
UserId(FK)	INT
DepartmentId(FK)	INT
SemId(FK)	INT
NoticeId(FK)	INT
CollegeId(FK)	INT
ActiveStatus	INT

Table: MessageTypes

Id(PK)	INT
Name	VARCHAR
CollegeId(FK)	INT
ActiveStatus	INT

Table: Messages

Id(PK)	INT
Head	VARCHAR
Description	VARCHAR
MessageDate	VARCHAR
MessageTime	VARCHAR
FromUserId(FK)	INT
ToUserId(FK)	INT
MessageTypeId(FK)	INT
ActiveStatus	INT

Tables Description based on Foreign and Primary

Independent Tables

Table Name	Primary Key
Table: Country	Id
Table: State	Id
Table: UserType	Id
Table: Sem	Id
Table: Day	Id
Table: Subjects	Id

Dependent Tables

Table Name	Primary Key	Foreign keys	Dependent Table Name
Table: PinCode	Id	StateId	State
Table: Address	Id	CountryId StateId PinCodeId	Country State PinCode
Table: Colleges	Id	AddressId	Address
Table: Users	Id	UserTypeId AddressId CollegeId	UserType Address Colleges
Table: Designation	Id	CollegeId	College

Table: Departments	Id	CollegeId	College
Table: SubjectSemDepartmentMap	Id	SubjectId DepartmentId SemId CollegeId	Subject Departments Sem Colleges
Table: Students	Id	UserId SemId DepartmentId	Users Sems Departments
Table: Faculties	Id	UserId DepartmentId DesignationId	Users Departments Designations
Table: FacultySubjectMap	Id	FacultyId SubjectId	Faculties
Table: TimeTable	Id	DaysId FacultySubjectMapId DepartmentId CollegeId	Days FacultySubjectMap Departments Colleges
Table: HolidayList	Id	DayId CollegeId	Days Colleges
Table: Attendance	Id	UserId TimeTableId CollegeId	Users TimeTable Colleges
Table: MarkTypes	Id	CollegeId	Colleges
Table: SubjectMarks	Id	FacultySubjectMapId MarksTypeId StudentId CollegeId	FacultySubject Map MarkTypes Students Colleges
Table:	Id	CollegeId	Colleges

AllowedExtensions			
Table:NotesTypes	Id	CollegeId	Colleges
Table: NotesAllowedExtensionsMap	Id	NotesTypeId AllowedExtensionId	NotesType AllowedExtensions
Table:Notes	Id	SubjectSemDepartment MapId CollegeId	SubjectSemDep artmentMap Colleges
Table:NoticeTypes	Id	CollegeId	Colleges
Table: Notices	Id	NoticeTypesId	NoticeTypes
Table: NoticeVisiblity	Id	UserId DepartmentId SemId NoticeId CollegeId	UserTypes Departments Sems Notices Colleges
Table: MessageTypes	Id	CollegeId	Colleges
Table: Messages	Id	FromUserId ToUserId MessageTypeId	Users Users MessageTypes