# Database Design

## Database Relationship Diagram (DRD)

## Database Structure

### Table: Accounts

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| accountID | INT | No | IDENTITY(1,1) | PK |  |  |
| username | VARCHAR(32) | No |  |  |  |  |
| password | VARCHAR(32) | No |  |  |  |  |
| role | VARCHAR(10) | No |  |  |  | Role for system:  1:admin  2:staff |

## Table: Departments

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| departmentID | INT | No | IDENTITY(1,1) | PK |  |  |
| departmentName | VARCHAR(250) | No |  |  |  |  |
| departmentDescription | Text(1000) | No |  |  |  |  |
| departmentImage | VARCHAR (250) | No |  |  |  |  |
| departmentOrder | INT | No | 0 |  |  |  |
| disable | BIT | No | 0 |  |  |  |

## Table: Faculty

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| facultyID | INT | No | IDENTITY(1,1) | PK |  |  |
| facultyName | VARCHAR(250) | No |  |  |  |  |
| facultyDescription | Text(1000) | No |  |  |  |  |
| facultyOrder | INT | No | 0 |  |  |  |
| facultyImage | VARCHAR(250) | No |  |  |  |  |
| departmentID | INT | No |  |  | Departments.departmentID |  |
| disable | BIT | No | 0 |  |  |  |

## Table: Courses

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| courseID | INT | No | IDENTITY(1,1) | PK |  |  |
| courseName | VARCHAR(250) | No |  |  |  |  |
| courseDescription | Text(1000) | No |  |  |  |  |
| departmentID | INT | No |  |  | Departments.departmentID |  |
| disabled | INT | No | 0 |  |  |  |

## Table: OnlineAdmission

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| admissionID | INT | No | IDENTITY(1,1) | PK |  |  |
| Name | VARCHAR(250) | No |  |  |  |  |
| FatherName | VARCHAR(250) | No |  |  |  |  |
| MortherName | VARCHAR(250) | No |  |  |  |  |
| Birthday | VARCHAR(20) | No |  |  |  |  |
| Gender | BIT | No | 0 |  |  |  |
| ResidentialAddress | VARCHAR(250) | No |  |  |  |  |
| PermanentAddress | VARCHAR(250) | No |  |  |  |  |
| departmentID | INT | No |  |  | Departments.departmentID |  |
| prevSportsDetails | VARCHAR(250) | No |  |  |  |  |
| prevUniversity | VARCHAR(250) | No |  |  |  |  |
| prevEnrolNumber | VARCHAR(250) | No |  |  |  |  |
| prevCenter | VARCHAR(250) | No |  |  |  |  |
| prevStream | VARCHAR(250) | No |  |  |  |  |
| prevField | VARCHAR(250) | No |  |  |  |  |
| prevMarks | VARCHAR(250) | No |  |  |  |  |
| prevOutOf | VARCHAR(250) | No |  |  |  |  |
| prevClass | VARCHAR(250) | No |  |  |  |  |
| Status | BIT | No | 0 |  |  |  |

## Table: StudentRegistration

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| registrationID | INT | No | IDENTITY(1,1) | PK |  |  |
| specializedSubject | INT | No |  |  | TimeTable.TimeTableID |  |
| optionSubject | INT | No |  |  |  |  |
| admissionID | INT | No |  |  | OnlineAdmission.admissionlD |  |
| enrollNmber | VARCHAR(250) | No |  |  |  |  |
| password | VARCHAR(250) | No |  |  |  |  |

## Table: Timetable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| TimeTableID | INT | No | IDENTITY(1,1) | PK |  |  |
| courseID | INT | No |  | FK | Courses.courseID |  |
| facultyID | INT | No |  | FK | Faculty.facultyID |  |
| startDay | DateTime | No |  |  |  |  |
| endDate | DateTime | No |  |  |  |  |
| available | BIT | No | 0 |  |  |  |
| disable | BIT | No | 0 |  |  |  |

## Table: Assignments

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| AssignmentsID | INT | No | IDENTITY(1,1) | PK |  |  |
| AssignmentsName | VARCHAR(250) | No |  |  |  |  |
| AssignmentsDescription | Text(1000) | No |  |  |  |  |
| TimeTableID | INT | No |  |  | TimeTable.TimeTableID |  |

## Table: ExamTimeTable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| examID | INT | No | IDENTITY(1,1) | PK |  |  |
| TimeTableID | INT | No |  | FK | TimeTable.TimeTableID |  |
| examDay | DateTime | No |  |  |  |  |
| examTime | INT | No |  |  |  |  |
| examDuration | INT | No |  |  |  |  |
| examDescription | Text(1000) | No |  |  |  |  |
| disable | BIT | No | 0 |  |  |  |

## Table: ClassNews

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| newID | INT | No | IDENTITY(1,1) | PK |  |  |
| newTitle | VARCHAR(250) | No |  |  |  |  |
| newImage | VARCHAR(250) | No |  |  |  |  |
| newContent | Text(1000) | No |  |  |  |  |
| TimeTableID | INT | No |  | FK | TimeTable.TimeTableID |  |

## Table: FeedBacks

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| feedbackID | INT | No | IDENTITY(1,1) | PK |  |  |
| feedbackContent | Text(1000) | No |  |  |  |  |
| TimeTableID | INT | No |  | FK | TimeTable.TimeTableID |  |

## Table: Branches

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| branchesID | INT | No | IDENTITY(1,1) | PK |  |  |
| brancheName | VARCHAR(250) | No |  |  |  |  |
| brancheEmail | VARCHAR(100) | No |  |  |  |  |
| brancheAddress | VARCHAR(100) | No |  |  |  |  |
| branchePhone | VARCHAR(50) | No |  |  |  |  |
| brancheFax | VARCHAR(50) | No |  |  |  |  |
| Description | Text(1000) | No |  |  |  |  |

## Table: Facilities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| facilitieID | INT | No | IDENTITY(1,1) | PK |  |  |
| facilitieName | VARCHAR(250) | No |  |  |  |  |
| facilitieImage | VARCHAR(250) | No |  |  |  |  |
| facilitieDescription | Text(1000) | No |  |  |  |  |

## Table: CollegeContents

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| contentID | INT | No | IDENTITY(1,1) | PK |  |  |
| contentTitle | VARCHAR(250) | No |  |  |  |  |
| contentImage | VARCHAR(250) | No |  |  |  |  |
| contentText | Text(1000) | No |  |  |  |  |
| contentCategory | VARCHAR(250) | No |  | FK | TimeTable.TimeTableID |  |