# Database Design

## Database Relationship Diagram (DRD)

## Database Structure

### Table: Accounts

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Description |
| accountID | INT | No | IDENTITY(1,1) | PK |  |  |
| username | VARCHAR(40) | No |  |  |  |  |
| password | VARCHAR(40) | No |  |  |  |  |
| role | BIT | No |  |  |  | Role for system:  0:staff  1:admin |

### Table: Departments

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Description |
| departmentID | INT | No | IDENTITY(1,1) | PK |  |  |
| departmentName | VARCHAR(100) | No |  |  |  |  |
| departmentDescription | Text(1000) | No |  |  |  |  |
| departmentImage | VARCHAR (100) | No |  |  |  |  |
| departmentOrder | INT | No | 0 |  |  |  |
| disable | BIT | No | 0 |  |  |  |

### Table: Faculty

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Description |
| facultyID | INT | No | IDENTITY(1,1) | PK |  |  |
| facultyName | VARCHAR(100) | No |  |  |  |  |
| facultyDescription | Text(1000) | No |  |  |  |  |
| facultyOrder | INT | No | 0 |  |  |  |
| facultyImage | VARCHAR(100) | No |  |  |  |  |
| departmentID | INT | No |  |  | Departments.departmentID |  |
| disable | BIT | No | 0 |  |  |  |

### Table: Courses

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Description |
| courseID | INT | No | IDENTITY(1,1) | PK |  |  |
| courseName | VARCHAR(100) | No |  |  |  |  |
| courseDescription | Text(1000) | No |  |  |  |  |
| departmentID | INT | No |  |  | Departments.departmentID |  |
| disabled | INT | No | 0 |  |  |  |

### Table: OnlineAdmission

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | | Null | Default | Key | Field-Ref | Description |
| admissionID | | INT | No | IDENTITY(1,1) | PK |  |  |
| Name | | VARCHAR(40) | No |  |  |  |  |
| FatherName | | VARCHAR(40) | No |  |  |  |  |
| MortherName | | VARCHAR(40) | No |  |  |  |  |
| Birthday | | DATE | 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 | | INT | No |  |  |  |  |
| prevOutOf | | VARCHAR(250) | No |  |  |  |  |
| prevClass | | VARCHAR(250) | No |  |  |  |  |
| Status | | BIT | No | 0 |  |  |  |

### Table: StudentRegistration

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Description |
| registrationID | INT | No | IDENTITY(1,1) | PK |  |  |
| specializedSubject | INT | No |  |  | TimeTable.TimeTableID |  |
| optionalSubject | INT | No |  |  | TimeTable.TimeTableID |  |
| admissionID | INT | No |  |  | OnlineAdmission.admissionlD |  |
| enrollNumber | VARCHAR(40) | No |  |  |  |  |
| password | VARCHAR(40) | No |  |  |  |  |

### Table: Timetable

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

### Table: Assignments

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Description |
| AssignmentsID | INT | No | IDENTITY(1,1) | PK |  |  |
| AssignmentsName | VARCHAR(100) | No |  |  |  |  |
| AssignmentsDescription | Text(1000) | No |  |  |  |  |
| TimeTableID | INT | No |  |  | TimeTable.TimeTableID |  |

### Table: ExamTimeTable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Description |
| examID | INT | No | IDENTITY(1,1) | PK |  |  |
| TimeTableID | INT | No |  | FK | TimeTable.TimeTableID |  |
| examDate | 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 | Description |
| newsID | INT | No | IDENTITY(1,1) | PK |  |  |
| newsTitle | VARCHAR(250) | No |  |  |  |  |
| newsImage | VARCHAR(100) | No |  |  |  |  |
| newsContent | Text(1000) | No |  |  |  |  |
| TimeTableID | INT | No |  | FK | TimeTable.TimeTableID |  |

### Table: FeedBacks

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Description |
| 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 | Description |
| branchID | INT | No | IDENTITY(1,1) | PK |  |  |
| branchName | VARCHAR(100) | No |  |  |  |  |
| branchEmail | VARCHAR(50) | No |  |  |  |  |
| branchAddress | VARCHAR(250) | No |  |  |  |  |
| branchPhone | VARCHAR(50) | No |  |  |  |  |
| branchFax | VARCHAR(50) | No |  |  |  |  |
| Description | Text(1000) | No |  |  |  |  |

### Table: Facilities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Description |
| facilitiesID | INT | No | IDENTITY(1,1) | PK |  |  |
| facilitiesName | VARCHAR(50) | No |  |  |  |  |
| facilitiesImage | VARCHAR(100) | No |  |  |  |  |
| facilitiesDescription | Text(1000) | No |  |  |  |  |

### Table: CollegeContents

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Description |
| contentID | INT | No | IDENTITY(1,1) | PK |  |  |
| contentTitle | VARCHAR(100) | No |  |  |  |  |
| contentImage | VARCHAR(100) | No |  |  |  |  |
| contentText | Text(1000) | No |  |  |  |  |
| contentCategory | VARCHAR(250) | No |  | FK | TimeTable.TimeTableID |  |