# 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 |  | FK | 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 |  | FK | Departments.departmentID |  |
| facultyID | INT | No |  | FK | Faculty.facultyID |  |
| startDate | VARCHAR(50) | No |  |  |  |  |
| endDate | VARCHAR(50) | No |  |  |  |  |
| examDate | VARCHAR(50) | No |  |  |  |  |
| 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 |  |  |  |  |
| 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 |  | FK |  |  |
| optionalSubject | INT | No |  | FK |  |  |
| courseID | INT | No |  | FK | Coursrs.courseID |  |
| admissionID | INT | No |  | FK | OnlineAdmission. admissionID |  |
| Password | VARCHAR(30) | No | 0 |  |  |  |
| enrollNumber | INT | No |  |  |  |  |

### Assignments Entity & Properties

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| assignmentID | INT | No | IDENTITY(1,1) | PK |  |  |
| assignmentName | VARCHAR(250) | No |  |  |  |  |
| assignmentDescription | TEXT(1000) | No |  |  |  |  |
| courseID | INT | No |  | FK | Courses.courseID |  |

### FeedBacks Entity & Properties

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| feedbackID | INT | No | IDENTITY(1,1) | PK |  |  |
| feedbackContent | TEXT(1000) | No |  |  |  |  |
| courseID | INT | No |  | FK | Courses.courseID |  |

### Branches Entity & Properties

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| FieldName | DataType | Null | Default | Key | Field-Ref | Descripton |
| brancheID | INT | No | IDENTITY(1,1) | PK |  |  |
| brancheName | VARCHAR(50) | No |  |  |  |  |
| brancheAddress | VARCHAR(250) | No |  |  |  |  |
| brancheEmail | VARCHAR(150) | No |  |  |  |  |
| branchePhone | VARCHAR(30) | No |  |  |  |  |
| brancheFax | VARCHAR(30) | No |  |  |  |  |
| Description | TEXT(1000) |  |  |  |  |  |

### CollegeContents Entity & Properties

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

### Facilities Entity & Properties

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