**ITI Examination System Database Documentation**

## **ITI Examination System Database**

### **Database Overview**

**.The system aims to reduce manual efforts, minimize errors, and improve the efficiency of examination administration**

**Is a database designed to manage , create and correct exams .**

**Contain educational entities like courses,students,instructors,exams.**

### **FileGroups And Files**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| FileGroup | File Name | Path | Size | MaxSize | Growth |
| FG\_course | ITI\_course.ndf | G:\sql server\MSSQL16.MSSQLSERVER01\MSSQL\DATA\ | 8MB | unlimited | 50MB |
| FG\_questions | ITI\_Users.ndf | G:\sql server\MSSQL16.MSSQLSERVER01\MSSQL\DATA\ | 8MB | unlimited | 50MB |
| FG\_Exams | ITI\_Exams.ndf | G:\sql server\MSSQL16.MSSQLSERVER01\MSSQL\DATA\ | 8MB | unlimited | 50MB |

### **Tables**

|  |  |
| --- | --- |
| Table | Description |
| Course | Stores course info ( name, id,description) |
| instructor | Personal info like name ,email,phone,id |
| student | Card info (address,name,id),phone,email |
| Exam | Core table.(type,date,qestions,id) |
| Student\_answer | Related to exam to store all answers of students |
| Question\_pool | Stores all question types(text,MCQ,true\_false) |
| Training\_manager | Data such as name,email,id |
| branch | Public info like address,name,phone |
| intake | Included in Academic hierarchy.his info :date,name,id |

### **Views**

|  |  |
| --- | --- |
| View | Purpose |
| Examshedule | Shows Upcoming schedule exam |
| failedstudents | Show students failed in normal and corrective exam |
| Studentcardinfo | Show all information about student |
| Studentexamresult | Exam results per student |
| topstudentperexam | show the highest grade in exam result |

### **Functions**

|  |  |
| --- | --- |
| Function | Purpose |
| Calculate-student-total-marks | Calculates the total degree per students |
| gettotalenrollmentstudents | Computes the number of all students enroll |
| Fn\_truefalsequestions | Correct answers of true\_false questions |
| Fun\_question\_text | Create text questions |
| calculateexamresult | Computes the result of exam |

### **Stored Prodecures**

|  |  |
| --- | --- |
| Procedure | Description |
| assignexam | Assign exam to student |
| calculatetotalgrade | Computes the final grade of exam |
| createexam | Create exam (manually \automatically) |
| updateexamschedule | Edit and alter the new dates of exams |
| Updatecourse | Edit course info |
| insertsrudent | Add new students to system |
| updatestudentdetails | Edit information about students |

### **Defaults**

Predefined default values for common columns:

|  |  |
| --- | --- |
| Default | Applied To |
| dbo.GraduationYearDF | Default year of graduation |
| dbo.Max\_Degree\_Default | Default max degree for exams |
| dbo.TypeExamDF | Default exam type |

### **Users**

|  |  |
| --- | --- |
| user | permissions |
| Training\_manager | Intake(update-delete-insert)  Track(update-delete-insert)  Branch(update-delete-insert)  Student(update-delete-insert)  Course(update)  Instructor(update-delete-insert) |
| instructor | Fn(calculate student total marks-correct text questions)  SP(update exam-true false questions-create exams-assign exams)  Table(exam-student-question pool) |
| student | View(exam schedule-exam result) |

### **Backups**

Daily backup (transaction)