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| Building | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_building\_id |
| Name | Varchar | 255 | NOT NULL | Unique | Ux\_building\_name |
| Description | Varchar | 1000 | NULL | N/A | N/A |
| Status | Integer | 4 | NOT NULL | N/A | N/A |

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| Room | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_room\_id |
| Name | Varchar | 255 | NOT NULL | Unique | Ux\_room\_name |
| RoomType | Integer | 4 | NOT NULL | N/A | N/A |
| BuildingId | Integer | 4 | NOT NULL | Foreign Key | Fk\_Room\_BuildingId |

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| User | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_user \_id |
| FullName | Varchar | 255 | NOT NULL | N/A | N/A |
| Email | Varchar | 255 | NOT NULL | Unique | Ux\_user\_email |
| Username | Varchar | 255 | NOT NULL | Unique | Ux\_user\_username |
| Password | Varchar | 255 | NOT NULL | N/A | N/A |
| UserType | Integer | 4 | NOT NULL | N/A | N/A |
| Authority | Varchar | 255 | NOT NULL | N/A | N/A |
| Status | Int | 4 | NOT NULL | N/A | N/A |

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| Batch | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_batch \_id |
| Name | Varchar | 255 | NOT NULL | Unique | Ux\_batch\_name |
| formationDate | Date | N/A | NOT NULL | N/A | N/A |

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| StudentProfile | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_StudentProfile \_id |
| userId | Integer | 4 | NOT NULL | Foreign Key, Unique | Fk\_StudentProfile\_userId, Ux\_StudentProfile\_userId |
| batchId | Integer | 4 | NULL | Foreign Key | Fk\_StudentProfile\_batchId |
| fullName | Varchar | 255 | NULL | N/A | N/A |
| Email | Varchar | 255 | NULL | N/A | N/A |
| Dob | Date | N/A | NULL | N/A | N/A |
| Gender | Varchar | 50 | NULL | N/A | N/A |
| Address | Varchar | 255 | NULL | N/A | N/A |
| TelephoneNumber | Varchar | 255 | NULL | N/A | N/A |
| MobileNumber | Varchar | 255 | NULL | N/A | N/A |
| ParentMobile | Varchar | 255 | NULL | N/A | N/A |
| ParentEmail | Varchar | 255 | NULL | N/A | N/A |
| motherName | Varchar | 255 | NULL | N/A | N/A |
| fatherName | Varchar | 255 | NULL | N/A | N/A |
| motherContactNumber | Varchar | 255 | NULL | N/A | N/A |
| fatherContactNumber | Varchar | 255 | NULL | N/A | N/A |

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| Course | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_course \_id |
| Name | Varchar | 255 | NOT NULL | Unique | Ux\_course \_name |

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| Module | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_module \_id |
| Name | Varchar | 255 | NOT NULL | Unique | Ux\_module \_name |
| CourseId | Integer | 4 | NOT NULL | Foreign Key | Fk\_Module\_CourseId |

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| TeacherProfile | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_TeacherProfile \_id |
| userId | Integer | 4 | NOT NULL | Foreign Key, Unique | Fk\_TeacherProfile\_userId, Ux\_TeacherProfile\_userId |
| moduleId | Integer | 4 | NULL | Foreign Key | Fk\_TeacherProfile\_moduleId |
| fullName | Varchar | 255 | NULL | N/A | N/A |
| Email | Varchar | 255 | NULL | N/A | N/A |
| DOB | Date | N/A | NULL | N/A | N/A |
| Gender | Varchar | 50 | NULL | N/A | N/A |
| Address | Varchar | 255 | NULL | N/A | N/A |
| MobileNumber | Varchar | 255 | NULL | N/A | N/A |
| Education | Varchar | 255 | NULL | N/A | N/A |

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| BatchCourse | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| batchId | Integer | 4 | NOT NULL | Foreign Key | Fk\_BatchCourse\_batchId |
| courseId | Integer | 4 | NOT NULL | Foreign Key | Fk\_BatchCourse\_courseId |

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| Exam | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_exam \_id |
| Name | Varchar | 255 | NOT NULL | N/A | N/A |
| Start | Date | N/A | NOT NULL | N/A | N/A |
| End | Date | N/A | NOT NULL | N/A | N/A |
| moduleId | Integer | 4 | NOT NULL | Foreign Key | Fk\_Exam\_moduleId |

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| BatchExam | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| batchId | Integer | 4 | NOT NULL | Foreign Key | Fk\_BatchExam\_batchId |
| examId | Integer | 4 | NOT NULL | Foreign Key | Fk\_BatchExam\_examId |

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| RoomSchedule | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_RoomSchedule\_Id |
| Name | Varchar | 255 | NOT NULL | N/A | N/A |
| dayOfWeek | Integer | 4 | NOT NULL | N/A | N/A |
| startTime | Time | 7 | NOT NULL | N/A | N/A |
| endTime | Time | 7 | NOT NULL | N/A | N/A |
| roomId | Integer | 4 | NOT NULL | Foreign Key | Fk\_RoomSchedule\_roomId |
| batchId | Integer | 4 | NOT NULL | Foreign Key | Fk\_RoomSchedule\_batchId |
| teacherId | Integer | 4 | NOT NULL | Foreign Key | Fk\_RoomSchedule\_teacherId |

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| StudentReport | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_StudentReport \_Id |
| studentId | Integer | 4 | NOT NULL | Foreign Key | Fk\_StudentReport\_studentId |
| moduleId | Integer | 4 | NOT NULL | Foreign Key | Fk\_StudentReport\_moduleId |
| marksObtained | Float | 4 | NOT NULL | N/A | N/A |

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| StudentTransaction | | | | | |
| Column Name | Type | Length | Null | Key | Constraint |
| Id | Integer | 4 | NOT NULL | Primary Key | Pk\_StudentTransaction \_Id |
| isComplete | Bit | 1 | NOT NULL | N/A | N/A |
| Remark | Varchar | 255 | NOT NULL | N/A | N/A |
| studentId | Integer | 4 | NOT NULL | Foreign Key | Fk\_StudentTransaction\_studentId |
| courseId | Integer | 4 | NOT NULL | Foreign Key | Fk\_StudentTransaction\_courseId |