

# RELATIONAL MODEL

- User (ID, First-Name, Last-Name, Address, Email, Gender, Password).
- User- Mobiles (User-ID, Mobiles).  
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  - User-Mobiles.User-ID references User.
- Admin (User-ID)  
— — —
  - Admin.User-ID references User.
- Instructor (User-ID, Rate, sumRates, totalRates)  
— — —
  - Where  $\text{Rate} = \text{sumRates} / \text{totalRates}$  , Instructor.User-ID references User.
- Student (User-ID, GPA, Total-credit-hours, avg-grades)  
— — —
  - Student.User-ID references User.
  - Student.certificate references certificate.
  - Where  $\text{GPA} = \text{sumGrades} / \text{totalHRS}$
- CreditCard (Number, StudentID, Name, ExpirationDate, CVV)  
— — —
  - CreditCard.StudentID references student

- Course (CourseID, Price, Content, CreditHours, Description, Name, ManagedBy, Discount-Percent, Original-Price)                    
  - Course.ManagedBy references Instructor.
  - Where Price = (1-Discount-Percent)\*Original-Price

- Certificate (CourseID, CertificateID, issue date, student )               
  - Certificate.CourseID references Course.
  - Certificate.student references Student

- Assignment (CourseID, number, url, weight, deadline )               
  - Assignment.CourseID references Course

- Feedback ( Comment, Likes, ID, CourseID, StudentID )                              
  - Feedback.CourseID references course
  - Feedback.StudentID references Student

- Promo-code (Code, Amount, Expiration-Date, Issue )
  
- UserViewCourse (User, Course)
  - UserViewCourse.User references User
  - UserViewCourse.Course references Course
  
- UserSearchCourse (User, Course)
  - UserViewCourse.User references User
  - UserViewCourse.Course references Course
  
- Admin-Issue-Promo (Admin, Student, Promo)
  - Admin-Issue-Promo.Admin references Admin
  - Admin-Issue-Promo.Student references Student
- Admin-Issue-Promo.Promo references Promocode
  
- Student-Enrollment-by-Admin (Admin, Course, Student, Accept)
  - Student-Enrollment-by-Admin.Admin references Admin
  - Student-Enrollment-by-Admin.Course references Course
  - Student-Enrollment-by-Admin.Student references Student

- Instructor-Adding-Another (Instructor, Added-By, Course-ID)

- Instructor-Adding-Another.Instructor references Instructor
- Instructor-Adding-Another.Added-By references Instructor
- Instructor-Adding-Another.Course-ID references Course

- Instructor-Teaches-Course (Instructor, Course)

- Instructor-Teaches-Course.Instructor references Instructor
- Instructor-Teaches-Course.Course references Course

- Student-Rate-Instructor (Student, Instructor, Course, Rate)

- Student-Rate-Instructor.Student references Student
- Student-Rate-Instructor.Instructor references Instructor
- Student-Rate-Instructor.Course references Course

- Admin-Review-Courses (Admin, Course, Instructor, accept)

- Admin-Review-Courses.Admin references Admin
- Admin-Review-Courses.Course references Course
- Admin-Review-Courses.Instructorreferences Instructor

- Instructor-View-Assignment (Instructor, Assignment, Grade)

- Instructor-View-Assignment.Instructor references Instructor
- Instructor-View-Assignment.Assignment references Assignment

- Student-Take-Assignment (Student, Assignment)

- Student-Take-Assignment.Student references Student
- Student-Take-Assignment.Assignment references Assignment

- Student-Uses-Promo (Student, Promo, Course)

- Student-Uses-Promo.Student references Student
- Student-Uses-Promo.Promo references Promocode
- Student-Uses-Promo.Course references Course

- Course-Prerequisite (Course, Prerequisites)

- Course-Prerequisite.Course references Course
- Course-Prerequisite.Prerequisites references Course