Project KnowPool (KP)

**Users Table:**

user\_id (Primary Key) - INT

name - VARCHAR

email - VARCHAR

password - VARCHAR (stored securely, e.g., hashed)

payment\_details - VARCHAR

advertisement - VARCHAR

**Courses Table:**

course\_id (Primary Key) - INT

title - VARCHAR

description - TEXT

duration – VARCHAR

instructor\_id (Foreign Key referencing Instructors Table) – INT

category\_id (Foreign Key referencing Categories Table) - INT

price - DECIMAL

status - VARCHAR

**Categories Table:**

category\_id (Primary Key) - INT

name - VARCHAR

**Course\_Reviews Table:**

review\_id (Primary Key) - INT

course\_id (Foreign Key referencing Courses Table) - INT

user\_id (Foreign Key referencing Users Table) - INT

review - TEXT

rating – DECIMAL

**Enrollments Table:**

enrollment\_id (Primary Key) - INT

user\_id (Foreign Key referencing Users Table) - INT

course\_id (Foreign Key referencing Courses Table) - INT

enrollment\_date - DATE

progress - DECIMAL(5,2)

**Instructors Table:**

instructor\_id (Primary Key) - INT

name - VARCHAR

bio - TEXT

**Transactions Table:**

transaction\_id (Primary Key) - INT

user\_id (Foreign Key referencing Users Table) - INT

course\_id (Foreign Key referencing Courses Table) - INT

date - DATE

time - TIME

amount - DECIMAL

payment\_method - VARCHAR

**Discounts Table:**

discount\_id (Primary Key) - INT

course\_id (Foreign Key referencing Courses Table) - INT

discount\_percentage - DECIMAL

start\_date - DATE

end\_date – DATE

**Features Table:**

feature\_id (Primary Key) - INT

course\_id (Foreign Key referencing Courses Table) - INT

feature\_type - VARCHAR (e.g., subtitles, quizzes, coding exercises, practice tests)

description - TEXT

**Users Table:**

One-to-Many with Course\_Reviews: Unidirectional. A user can have multiple reviews, but each review belongs to only one user.

One-to-Many with Enrollments: Unidirectional. A user can have multiple enrollments, but each enrollment belongs to only one user.

One-to-Many with Transactions: Unidirectional. A user can have multiple transactions, but each transaction belongs to only one user.

**Courses Table:**

One-to-Many with Course\_Reviews: Unidirectional. A course can have multiple reviews, but each review belongs to only one course.

Many-to-One with Instructors: Bidirectional. Many courses can have the same instructor, and an instructor is associated with multiple courses.

One-to-Many with Enrollments: Unidirectional. A course can have multiple enrollments, but each enrollment belongs to only one course.

One-to-Many with Transactions: A course can have multiple transactions, but each transaction belongs to only one course.

**Categories Table:**

One-to-Many with Courses: Unidirectional. A category can have multiple courses, but each course belongs to only one category.

**Course\_Reviews Table:**

Many-to-One with Courses: Unidirectional. Many reviews can belong to the same course, but each review is associated with only one course.

Many-to-One with Users: Unidirectional. Many reviews can be written by the same user, but each review is associated with only one user.

**Enrollments Table:**

Many-to-One with Courses: Unidirectional. Many enrollments can belong to the same course, but each enrollment is associated with only one course.

Many-to-One with Users: Unidirectional. Many enrollments can belong to the same user, but each enrollment is associated with only one user.

**Instructors Table:**

One-to-Many with Courses: Bidirectional. An instructor can teach multiple courses, and each course has only one instructor.

**Transactions Table:**

Many-to-One with Users: Unidirectional. Many transactions can belong to the same user, but each transaction is associated with only one user.  
Many-to-One with Courses: Many transactions can belong to the same course, but each transaction is associated with only one course.

**Discounts Table:**

Many-to-One with Courses: Unidirectional. Many discounts can belong to the same course, but each discount is associated with only one course.