ELearning PlatformDatabase Design



Anish Thapaliya

Prabhat Ale

Suman Paudel

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Motivation

- 70% of Students say online learning is better than traditional classroom learning.
- The number of online learning users is expected to increase to 57 million by 2027.
- Limited Work has been done in ELearning platform For ECA activities.
- Database Design is necessary for creating Elearning platform.

Objectives

- Learn Anytime from anywhere
- Promote Eastern Art Globally
- Opportunity to build strong networks among the industry artists and student.



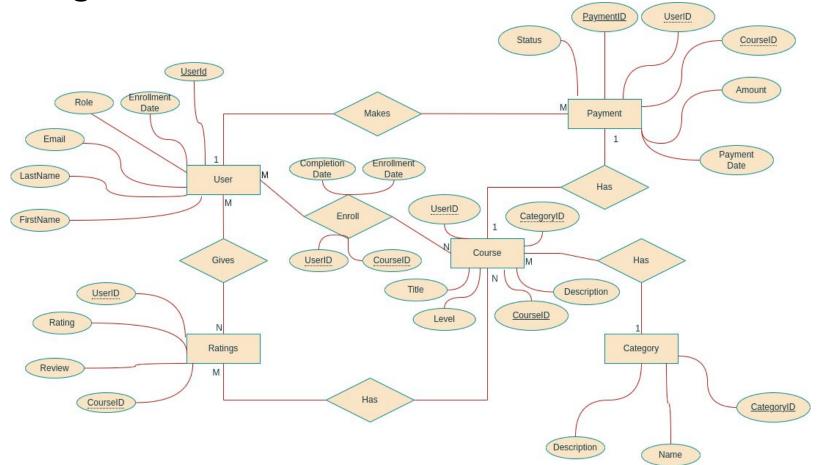




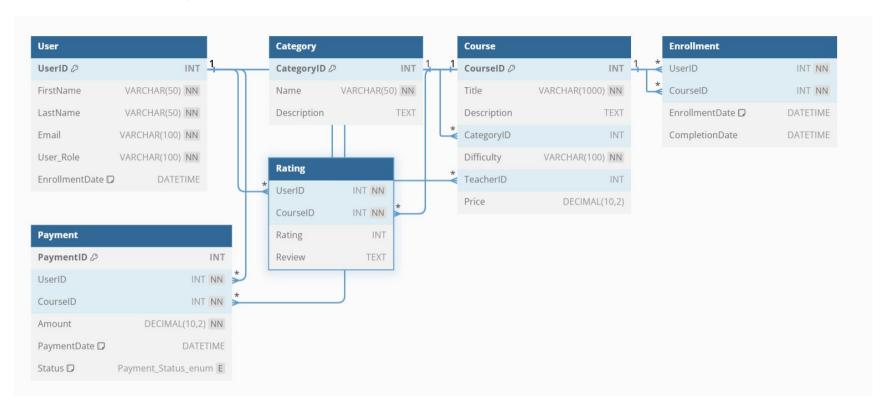
Entities

- Course
- Category
- Rating
- ★ Enrollment
- Payment

ER Diagram



Schema Diagram



```
CREATE DATABASE ECA_ACADEMY;

Statistics 1 ×

Name

Value

Updated Rows 1

Query

CREATE DATABASE ECA_ACADEMY

Start time Fri May 17 07:15:24 NPT 2024

Finish time Fri May 17 07:15:24 NPT 2024
```

```
CREATE TABLE IF NOT EXISTS Category (
CategoryID INT AUTO_INCREMENT PRIMARY KEY,
Name VARCHAR(50) NOT NULL,
Description TEXT

Statistic IX
Name
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Ouery -Create Category Table
CREATE TABLE IF NOT EXISTS Category(
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```

```
CREATE TABLE IF NOT EXISTS User (
UserID INT AUTO INCREMENT PRIMARY KEY,
FirstName VARCHAR(50) NOT NULL,
LastName VARCHAR(50) NOT NULL,
Email VARCHAR(100) UNIQUE NOT NULL,
User_Role VARCHAR(100) NOT NULL,
EnrollmentDate DATETIME DEFAULT CURRENT_TIMESTAMP

| Statistics 1 x
| Name | Value |
Updated Rous 0 |
GERATE TABLE! FINOTENSTS User (
Under Role VARCHAR(10) NOT NULL
LESS NAME VARCHAR(10) NOT NULL
Email VARCHAR(10) NOT
```

```
CREATE TABLE IF NOT EXISTS Enrollment (
USerID INT NOT NULL,
COURSEID INT NOT NULL,
COURSEID INT NOT NULL,
EnrollmentDate DATETIME DEFAULT CURRENT_TIMESTAMP,
CompletionDate DATETIME,
FOREIGN KEY (USerID) REFERENCES USer(USerID),
FOREIGN KEY (USerID) REFERENCES Course(CourseID)

POREIGN KEY (CourseID) REFERENCES Course(CourseID)

POREIGN KEY (CourseID) REFERENCES Course(CourseID)

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```
INSERT INTO Category (Name, Description) VALUES
('Music', 'Course on Classical Music'),
('Music', 'Course on Western Music'),
('Music', 'Course on Flutes & Guitar'),
('Music', 'Course on Rock Music'),
('Singing', 'Course on classical singing'),
('Singing', 'Course on Vocal Training'),
('Singing', 'Course on Pop Singing'),
('Dancing', 'Course on Hip Hop Dancing'),
('Dancing', 'Course on Classical Dancing'),
('Dancing', 'Course on Contemporary Dancing');
```

```
INSERT INTO User (FirstName, LastName, Email, User_Role) VALUES
('Prabhat', 'Ale', 'prabhat@gmail.com', 'Teacher'),
('Gaurav', 'Bhattarai', 'gauravh@gmail.com', 'Student'),
('Niraj', 'Kharel', 'niraj@gmail.com', 'Student'),
('Anish', 'Thapaliya', 'anish@gmail.com', 'Teacher'),
('Sunil', 'Ghimire', 'sunil@gmail.com', 'Admin'),
('Ashmita', 'Bhata', 'ashmita@gmail.com', 'Student'),
('Suman', 'Paudel', 'suman@gmail.com', 'Teacher'),
('Gita', 'Gaire', 'gita@gmail.com', 'Student'),
('Alisha', 'Thapa', 'alisha@gmail.com', 'Student'),
('Kshitiz', 'Regmi', 'kshitiz@gmail.com', 'Teacher');
```

```
INSERT INTO Course (Title, Description, CategoryID, Difficulty, TeacherID, Price) VALUES

('Introduction to Classical Music', 'Basics of Classical Music', 1, 'Beginner', 1, 10000),

('Western Music Fundamentals', 'Learn the basics of Western Music', 2, 'Beginner', 4, 15000),

('Guitar for Beginners', 'Learn to play the guitar', 3, 'Beginner', 7, 8000),

('Rock Music Techniques', 'Advanced rock music techniques', 4, 'Advanced', 10, 7500),

('Classical Singing Basics', 'Introduction to classical singing techniques', 5, 'Beginner', 1, 12500),

('Vocal Training for Singers', 'Improve your vocal skills', 6, 'Intermediate', 4, 15000),

('Pop Singing Masterclass', 'Advanced techniques in pop singing', 7,
```

INSERT INTO Enrollment (UserID, CourseID, EnrollmentDate, CompletionDate) **VALUES** (2, 2, '2023-01-15', DATE ADD('2023-01-15', INTERVAL 6 MONTH)), -- Gaurav Bhattarai enrolled in Western Music Fundamentals (6 months) (3, 3, '2023-02-01', DATE ADD('2023-02-01', INTERVAL 6 MONTH)), -- Niraj Kharel enrolled in Guitar for Beginners (6 months) (6, 4, '2023-03-01', DATE ADD('2023-03-01', INTERVAL 3 MONTH)), -- Ashmita Bhata enrolled in Rock Music Techniques (3 months) (8, 5, '2023-03-15', DATE ADD('2023-03-15', INTERVAL 6 MONTH)), -- Gita Gaire enrolled in Classical Singing Basics (6 months) (9. 6. '2023-04-01', DATE ADD('2023-04-01', INTERVAL 3 MONTH)). -- Alisha Thapa enrolled in Vocal Training for Singers (3 months) (6, 7, '2023-04-15', DATE ADD('2023-04-15', INTERVAL 6 MONTH)), -- Ashmita Bhata enrolled in Pop Singing Masterclass (6 months) (8, 8, '2023-05-01', DATE ADD('2023-05-01', INTERVAL 3 MONTH)), -- Gita Gaire enrolled in Hip Hop Dance Moves (3 months) (3, 9, '2023-05-15', DATE ADD('2023-05-15', INTERVAL 6 MONTH)), -- Niraj Kharel enrolled in Classical Dance Fundamentals (6 months) (2. 10, '2023-06-01', DATE ADD('2023-06-01', INTERVAL 3 MONTH)), -- Gaurav Bhattarai enrolled in Contemporary Dance Techniques (3 months) (9, 1, '2023-06-15', DATE ADD('2023-06-15', INTERVAL 6 MONTH)); -- Alisha

Thapa enrolled in Introduction to Classical Music (6 months)

```
mysql> DELIMITER //
mysql> CREATE PROCEDURE GetUser()
GIN
    -> BEGIN
   -> SELECT * FROM User;
   -> END;
   -> //
ELIMITER ;
CALL GetUser();Query OK, 0 rows affected (0.01 sec)
mysql> DELIMITER ;
```

thank you

