



7/8/2024

UPDATE WHERE OPERATOR



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1. Create a table with named Score with attributes:

- ScoreID (Primary Key)
- CourseID (Foreign key)
- StudentID (Foreign Key)
- DateOfExam
- CreditObtained

QUERY:

```
CREATE TABLE Score (  
    ScoreID INT AUTO_INCREMENT PRIMARY KEY,  
    CourseID INT,  
    StudentID INT,  
    DateOfExam DATE,  
    CreditObtained DECIMAL(5, 2),  
    FOREIGN KEY (CourseID) REFERENCES Course(CourseID),  
    FOREIGN KEY (StudentID) REFERENCES Student(StudentID)  
);
```

```
mysql> CREATE TABLE Score ( ScoreID INT AUTO_INCREMENT PRIMARY KEY, CourseID INT, StudentID INT not null, DateOfExam DATE not null, CreditObtained DECIMAL(5, 2), FOREIGN KEY (CourseID) REFERENCES Course(CourseID), FOREIGN KEY (StudentID) REFERENCES Student(StudentID));
Query OK, 0 rows affected (1.98 sec)
```

2. Create a table with named Feedback with attributes:

- FeedbackID (Primary Key)
- StudentID (Foreign key)
- Date
- InstructorName
- Feedback

```
CREATE TABLE Feedback (  
    FeedbackID INT AUTO_INCREMENT PRIMARY KEY,  
    StudentID INT,  
    Date DATE,  
    InstructorName VARCHAR(100),  
    Feedback TEXT,  
    FOREIGN KEY (StudentID) REFERENCES Student(StudentID)  
);
```

```
mysql> INSERT INTO Feedback (StudentID, Date, InstructorName, Feedback) VALUES (1, '2023-06-10', 'Tarun', 'Great course, learned a lot!'), (2, '2023-06-11', 'Satyasri', 'Very well structured.'), (3, '2023-06-12', 'Lucky', 'Helpful materials provided.'), (1, '2023-06-13', 'Tarun', 'Instructor was very knowledgeable.'), (2, '2023-06-14', 'Satyasri', 'Enjoyed the practical sessions.');
```

Query OK, 5 rows affected (0.05 sec)
Records: 5 Duplicates: 0 Warnings: 0

```
mysql> select * from student;
```

Task 1: Use the Database and table from Day 1 lab(pervious lab). Insert 5 records in each table and retrieve data from all tables and displays.

INSERTING RECORDS INTO STUDENT TABLE:

```
INSERT INTO Student (FirstName, LastName, DateOfBirth, Gender, Email, Phone)VALUES ('jagadeesh', 'kola', '2004-01-01', 'Male', 'john.doe@example.com', '123-456-7890'),('satya', 'mahesh', '2005-02-02', 'male', 'jane.smith@example.com', '234-567-8901'),('jai', 'ram', '2003-03-03', 'male', 'alice.johnson@example.com', '345-678-9012'),('jhansi', 'varanasi', '2003-04-04', 'Female', 'bob.brown@example.com', '456-789-0123'),('Satya', 'varanasi', '2001-05-05', 'Female', 'carol.white@example.com', '567-890-1234');
```

```
mysql> INSERT INTO Student (FirstName, LastName, DateOfBirth, Gender, Email, Phone)VALUES ('jagadeesh', 'kola', '2004-01-01', 'Male', 'john.doe@example.com', '123-456-7890'),('satya', 'mahesh', '2005-02-02', 'male', 'jane.smith@example.com', '234-567-8901'),('jai', 'ram', '2003-03-03', 'male', 'alice.johnson@example.com', '345-678-9012'),('jhansi', 'varanasi', '2003-04-04', 'Female', 'bob.brown@example.com', '456-789-0123'),('Satya', 'varanasi', '2001-05-05', 'Female', 'carol.white@example.com', '567-890-1234');
Query OK, 5 rows affected (0.14 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

INSERTING RECORDS INTO COURSE TABLE:

```
INSERT INTO Course (CourseTitle, Credits)VALUES ('PHP', 4),('REACT', 3),('JAVASCRIPT', 4),('CSS', 3),('HTML', 5);
```

```
mysql> INSERT INTO Course (CourseTitle, Credits)VALUES ('PHP', 4),('REACT', 3),('JAVASCRIPT', 4),('CSS', 3),('HTML', 5);
Query OK, 5 rows affected (0.09 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

INSERTING RECORDS INTO SCORE TABLE:

```
INSERT INTO Score (CourseID, StudentID, DateOfExam, CreditObtained)VALUES (1, 1, '2023-06-01', 85.50),(1, 2, '2023-06-02', 90.00),(2, 1, '2023-06-03', 88.75),(2, 3, '2023-06-04', 92.00),(3, 2, '2023-06-05', 79.50);
```

```
mysql> INSERT INTO Score (CourseID, StudentID, DateOfExam, CreditObtained)VALUES (1, 1, '2023-06-01', 85.50),(1, 2, '2023-06-02', 90.00),(2, 1, '2023-06-03', 88.75),(2, 3, '2023-06-04', 92.00),(3, 2, '2023-06-05', 79.50);
Query OK, 5 rows affected (0.12 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

INSERTING RECORDS INTO FEEDBACK TABLE:

INSERT INTO Feedback (StudentID, Date, InstructorName, Feedback)VALUES (1, '2023-06-10', 'Tarun', 'Great course, learned a lot!'),(2, '2023-06-11', 'Satyasri', 'Very well structured.),(3, '2023-06-12', 'Lucky', 'Helpful materials provided.),(1, '2023-06-13', 'Tarun', 'Instructor was very knowledgeable.),(2, '2023-06-14', 'Satyasri', 'Enjoyed the practical sessions.');

```
mysql> INSERT INTO Feedback (StudentID, Date, InstructorName, Feedback)VALUES (1, '2023-06-10', 'Tarun', 'Great course, learned a lot!'),(2, '2023-06-11', 'Satyasri', 'Very well structured.),(3, '2023-06-12', 'Lucky', 'Helpful materials provided.),(1, '2023-06-13', 'Tarun', 'Instructor was very knowledgeable.),(2, '2023-06-14', 'Satyasri', 'Enjoyed the practical sessions.');
```

RETRIEVAL AND DISPLAY THE TABLES:

SELECT * FROM STUDENT;

```
mysql> select * from student;
```

| studentID | FirstName | LastName | DateOfBirth | Gender | Email | Phone |
|-----------|-----------|----------|-------------|--------|---------------------------|--------------|
| 1 | jagadeesh | kola | 2004-01-01 | Male | john.doe@example.com | 123-456-7890 |
| 2 | satya | mahesh | 2005-02-02 | Male | jane.smith@example.com | 234-567-8901 |
| 3 | jai | ram | 2003-03-03 | Male | alice.johnson@example.com | 345-678-9012 |
| 4 | jhansi | varanasi | 2003-04-04 | Female | bob.brown@example.com | 456-789-0123 |
| 5 | Satya | varanasi | 2001-05-05 | Female | carol.white@example.com | 567-890-1234 |

```
5 rows in set (0.00 sec)
```

SELECT * FROM COURSE;

```
mysql> select * from course;
```

| CourseID | CourseTitle | Credits |
|----------|-------------|---------|
| 1 | PHP | 4 |
| 2 | REACT | 3 |
| 3 | JAVASCRIPT | 4 |
| 4 | CSS | 3 |
| 5 | HTML | 5 |

```
5 rows in set (0.00 sec)
```

SELECT * FROM SCORE;

```
mysql> select * from score;
```

| ScoreID | CourseID | StudentID | DateOfExam | CreditObtained |
|---------|----------|-----------|------------|----------------|
| 1 | 1 | 1 | 2023-06-01 | 85.50 |
| 2 | 1 | 2 | 2023-06-02 | 90.00 |
| 3 | 2 | 1 | 2023-06-03 | 88.75 |
| 4 | 2 | 3 | 2023-06-04 | 92.00 |
| 5 | 3 | 2 | 2023-06-05 | 79.50 |

```
5 rows in set (0.00 sec)
```

SELECT * FROM FEEDBACK;

```
mysql> select * from feedback;
```

| FeedbackID | StudentID | Date | InstructorName | Feedback |
|------------|-----------|------------|----------------|------------------------------------|
| 1 | 1 | 2023-06-10 | Tarun | Great course, learned a lot! |
| 2 | 2 | 2023-06-11 | Satyasri | Very well structured. |
| 3 | 3 | 2023-06-12 | Lucky | Helpful materials provided. |
| 4 | 1 | 2023-06-13 | Tarun | Instructor was very knowledgeable. |
| 5 | 2 | 2023-06-14 | Satyasri | Enjoyed the practical sessions. |

```
5 rows in set (0.00 sec)
```

TASK 2: Update the Student table with the following information:

Update/Change the email to 'jane_Smith@example.com' and make FirstName is 'Jane' and LastName is 'Smith' and any students in your student table.

```
UPDATE Student SET Email =  
'satya_mahesh@example.com' WHERE FirstName = 'satya' AND  
LastName = 'mahesh';
```

```
mysql> UPDATE Student SET Email = 'satya_mahesh@example.com' WHERE FirstName = 'satya' AND LastName = 'mahesh';  
Query OK, 1 row affected (0.14 sec)  
Rows matched: 1 Changed: 1 Warnings: 0
```

```
SELECT * FROM STUDENT;
```

```
mysql> select * from student;
```

| studentID | FirstName | LastName | DateOfBirth | Gender | Email | Phone |
|-----------|-----------|----------|-------------|--------|--------------------------|--------------|
| 1 | jagadeesh | kola | 2004-01-01 | Male | john.doe@example.com | 123-456-7890 |
| 2 | satya | mahesh | 2005-02-02 | Male | satya_mahesh@example.com | 234-567-8901 |
| 4 | jhansi | varanasi | 2003-04-04 | Female | bob.brown@example.com | 456-789-0123 |
| 5 | Satya | varanasi | 2001-05-05 | Female | carol.white@example.com | 567-890-1234 |

```
4 rows in set (0.00 sec)
```

Task 3 : Perform the filtration on the table by given data display student/students records from the Student table where the last name is Smith.

*SELECT * FROM Student WHERE LastName = 'varanasi';*

```
mysql> SELECT * FROM Student WHERE LastName = 'varanasi';
```

| studentID | FirstName | LastName | DateOfBirth | Gender | Email | Phone |
|-----------|-----------|----------|-------------|--------|-------------------------|--------------|
| 4 | jhansi | varanasi | 2003-04-04 | Female | bob.brown@example.com | 456-789-0123 |
| 5 | Satya | varanasi | 2001-05-05 | Female | carol.white@example.com | 567-890-1234 |

```
2 rows in set (0.00 sec)
```

Task 4: Delete the record from the Student table on the following condition:

Delete student/student records from the Student table where the First name is 'Jane'.

DELETE RELATED RECORDS FROM THE SCORE TABLE;

DELETE FROM SCORE WHERE StudentID IN (SELECT StudentID FROM Student WHERE FirstName = 'jai');

```
mysql> DELETE FROM score WHERE StudentID IN (SELECT StudentID FROM Student WHERE FirstName = 'jai');
Query OK, 1 row affected (0.43 sec)
```

DELETE RELATED RECORDS FROM FEEDBACK TABLE;

DELETE FROM Feedback WHERE StudentID IN (SELECT StudentID FROM Student WHERE FirstName = 'jai');

```
mysql> DELETE FROM Feedback WHERE StudentID IN (SELECT StudentID FROM Student WHERE FirstName = 'jai');
Query OK, 1 row affected (0.11 sec)
```

DELTE FROM STUDENT TABLE WHERE FIRST NAME ='jai' :

DELETE FROM Student WHERE FirstName = 'jai';

```
mysql> DELETE FROM Student WHERE FirstName = 'jai';
Query OK, 1 row affected (0.82 sec)
```

*SELECT * FROM Student;*

```
mysql> select * from student;
```

| studentID | FirstName | LastName | DateOfBirth | Gender | Email | Phone |
|-----------|-----------|----------|-------------|--------|--------------------------|--------------|
| 1 | jagadeesh | kola | 2004-01-01 | Male | john.doe@example.com | 123-456-7890 |
| 2 | satya | mahesh | 2005-02-02 | Male | satya_mahesh@example.com | 234-567-8901 |
| 4 | jhansi | varanasi | 2003-04-04 | Female | bob.brown@example.com | 456-789-0123 |
| 5 | Satya | varanasi | 2001-05-05 | Female | carol.white@example.com | 567-890-1234 |

```
4 rows in set (0.00 sec)
```

