EC5070 DATABASE SYSTEMS LAB 02

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2022/E/048

GROUP CG04

SEMESTER 05

2 MAY 2025

TASK 01

```
C:\Windows\System32\cmd.e \times + \sigma

Microsoft Windows [Version 10.0.26100.3775]

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C:\xampp\mysql\bin>mysql -h localhost -u root

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 23

Server version: 10.4.32-MariaDB mariadb.org binary distribution
```

FIGURE 01: CONNECT TO THE MySQL

FIGURE 02: VIEW ALL DATABASES ON YOUR LOCALHOST.

```
MariaDB [(none)]> CREATE DATABASE Course_manager2;
Query OK, 1 row affected (0.002 sec)
```

FIGURE 03: CREATE A DATABASE COURSE_MANAGER2.

```
MariaDB [(none)]> USE Course_manager2;
Database changed
```

FIGURE 04: SELECT OR ACCESS A DATABASE USING 'USE' COMMAND.

```
MariaDB [(none)]> USE Course_manager2;
Database changed
MariaDB [Course_manager2]> CREATE TABLE Course (
          Ccode VARCHAR(10) NOT NULL,
    ->
           Cname VARCHAR(100),
          Credit INT,
    ->
           PRIMARY KEY (Ccode)
    ->
    -> ) ENGINE=InnoDB;
Query OK, 0 rows affected (0.029 sec)
MariaDB [Course_manager2]> CREATE TABLE MA (
           MID VARCHAR(10) NOT NULL,
    ->
           Mname VARCHAR(100),
           PRIMARY KEY (MID)
    ->
    -> ) ENGINE=InnoDB;
Query OK, 0 rows affected (0.013 sec)
MariaDB [Course_manager2]> CREATE TABLE Manage (
           Code VARCHAR(10) NOT NULL,
    ->
    ->
           MAid VARCHAR(10) NOT NULL,
          Semester INT,
    ->
           PRIMARY KEY (Code, Semester),
    ->
           CONSTRAINT fk_code FOREIGN KEY (Code) REFERENCES Course(Ccode)
    ->
               ON DELETE CASCADE ON UPDATE CASCADE,
    ->
           CONSTRAINT fk_maid FOREIGN KEY (MAid) REFERENCES MA(MID)
    ->
               ON DELETE CASCADE ON UPDATE CASCADE
    ->
    -> ) ENGINE=InnoDB;
Query OK, 0 rows affected (0.045 sec)
```

FIGURE 05: CREATE NECESSARY TABLES.

```
MariaDB [Course_manager2]> INSERT INTO MA (MID, Mname) VALUES
     -> ('MA01', 'Nimal'),
-> ('MA02', 'Kamal'),
-> ('MA03', 'Siva'),
-> ('MA04', 'Ruwan'),
-> ('MA05', 'Janani');
Query OK, 5 rows affected (0.007 sec)
Records: 5 Duplicates: 0 Warnings: 0
MariaDB [Course_manager2]> INSERT INTO Course (Ccode, Cname, Credit) VALUES
-> ('CS101', 'Databases', 3),
-> ('CS102', 'Algorithms', 3),
-> ('CS103', 'Networks', 3),
-> ('CS104', 'Artificial Intelligence', 3),
-> ('CS105', 'Operating Systems', 3);

Query OK, 5 rows affected (0.007 sec)
Records: 5 Duplicates: 0 Warnings: 0
MariaDB [Course_manager2]> INSERT INTO Manage (Code, MAid, Semester) VALUES
      -> ('CS101', 'MA01', 1),
      -> ('CS102'
                        'MA02'
     -> ('CS103', 'MA03', 3),
                       'MA04'
     -> ('CS104', 'MA04', 4),
-> ('CS105', 'MA05', 5);
                                  5);
Query OK, 5 rows affected (0.006 sec)
Records: 5 Duplicates: 0 Warnings: 0
MariaDB [Course_manager2]>
```

FIGURE 06: INSERT DATA TO THE TABLES

FIGURE 07: LIST THE COURSE DETAILS OF SEMESTER 1 (ONE OF THE SEMESTER).

TASK 02 📀 Gmail 💌 YouTube 💡 Maps 📲 Translate 🎐 Vray materials - Stai... 📀 let me down song L.. 🏮 Baunfire | Make gre... 🚏 Untitled – Figma 📀 How To Create Reac... 🚾 Bmw 3D Models | C... ☐ All Bookmarks **MATERIAL STATE OF ENGINEERING UNIVERSITY OF JAFFNA** Course Management System Add, Edit, Delete Courses by Semester Select Semester: ~ Semester 1 + Add New Cours Course List Code Credit **Lecture Hours** Manager Actions Name W Delete CS101 Databases 3 Nimal 💾 Save

FIGURE 08: MAIN PAGE

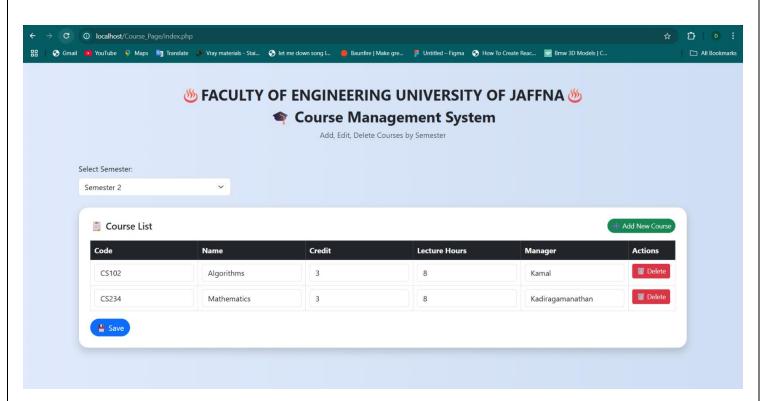


FIGURE 09: SEARCH A COURSE BY SEMESTER (Now selected Semester 2)

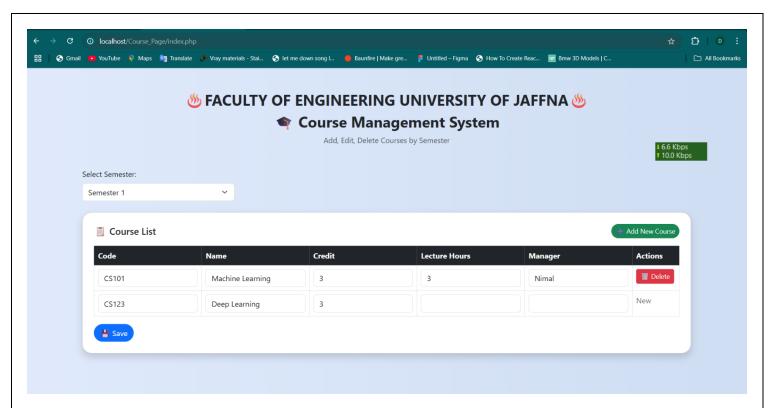


FIGURE 10: ADD A NEW COURSE

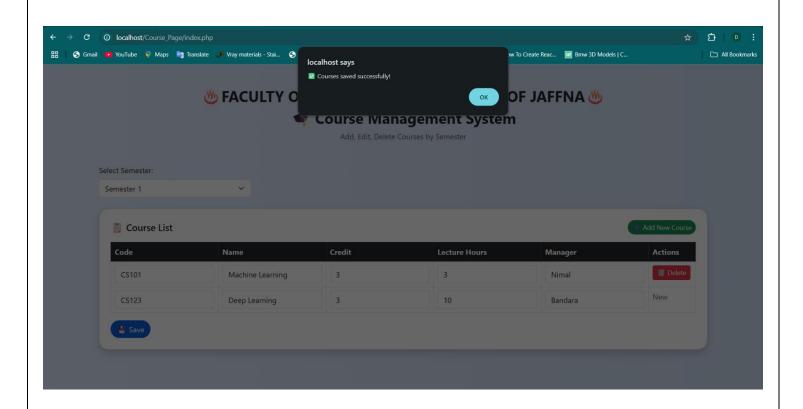


FIGURE 11: ADDED SUCCESSFULLY

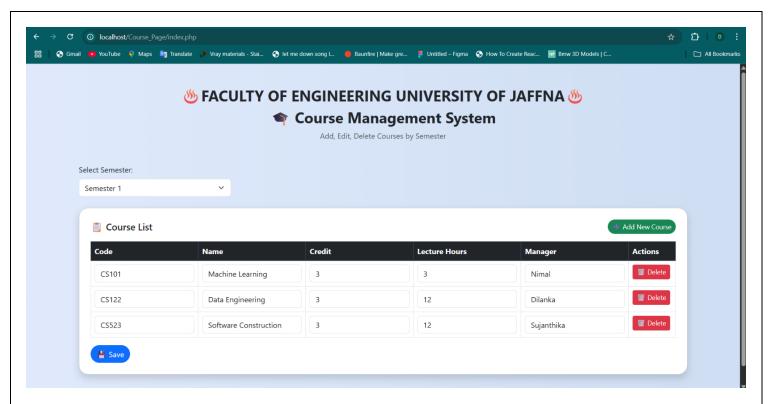


FIGURE 12: AFTER ADD A NEW COURSES

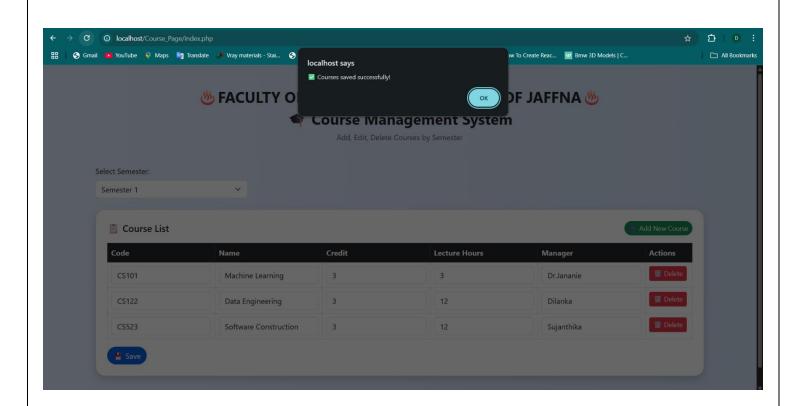


FIGURE 13: EDIT TO A COURSE (MANAGER OF CS101)

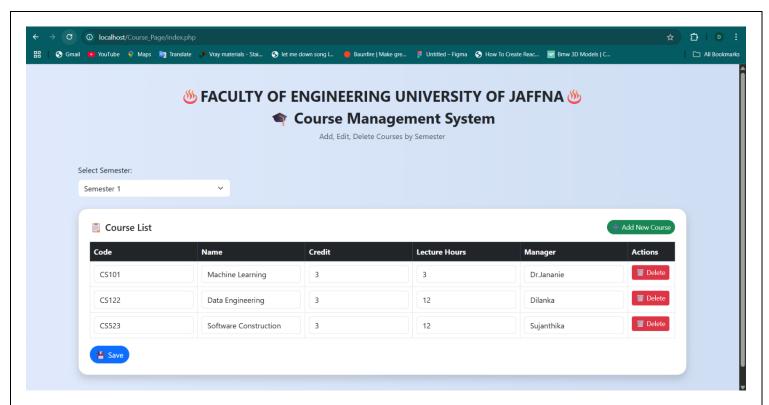


FIGURE 14: AFTER EDIT A COURSE

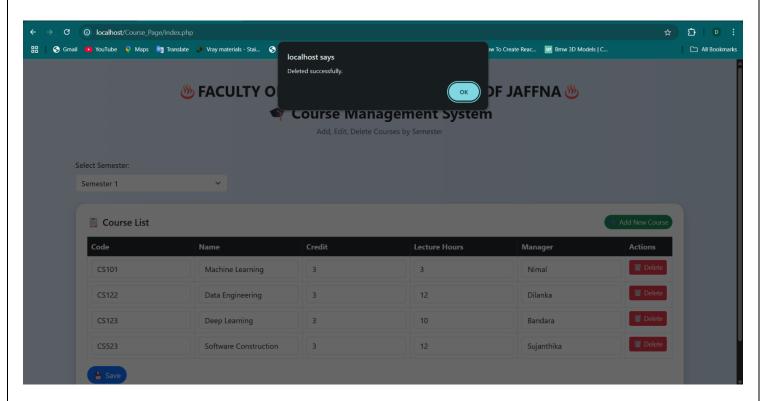


FIGURE 15: DELETE A COURSE (Deep Learning course going to delete)

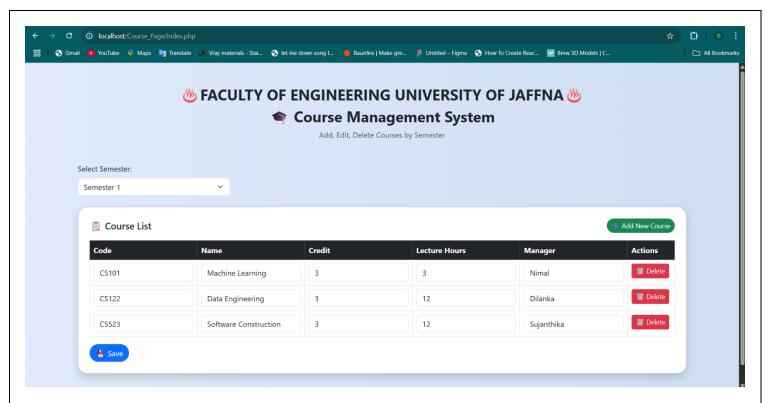


FIGURE 16: AFTER DELETING A COURSE