Solution of quiz:

**Task 01: Consider the following table "Students":**

| **RNO** | **NAME** | **FatherName** | **CITY** | **MARKS** |
| --- | --- | --- | --- | --- |
| 1 | Ali | Waqar | Multan | 450 |
| 2 | Kashif | Farhad | Lahore | 370 |
| 3 | Ijaz | Asif | Peshawar | 430 |

Write down SQL queries to perform the following tasks:

1. Create a new table "Courses" with the following columns: CourseID (int, auto-increment), CourseName (varchar), InstructorID (int), StartDate (date), EndDate (date), and Capacity (int).

CREATE TABLE Courses (

CourseID INT PRIMARY KEY IDENTITY,

CourseName VARCHAR(50),

InstructorID INT,

StartDate DATE,

EndDate DATE,

Capacity INT

);

1. Insert data into the "Courses" table for at least three courses, ensuring that the InstructorID corresponds to an existing instructor in an "Instructors" table.

INSERT INTO Courses (CourseName, InstructorID, StartDate, EndDate, Capacity)

VALUES ('Course A', 1, '2024-04-01', '2024-06-30', 50),

('Course B', 2, '2024-05-01', '2024-07-31', 40),

('Course C', 3, '2024-06-01', '2024-08-31', 30);

1. Add a new column "Description" (varchar) to the "Courses" table with a default value of 'TBD' (To Be Determined).

ALTER TABLE Courses ADD Description VARCHAR(255) DEFAULT 'TBD';

1. Update the "Description" column for one of the courses to a specific description.

UPDATE Courses SET Description = 'This course covers advanced topics' WHERE CourseID = 1;

1. Delete the "Description" column from the "Courses" table, ensuring that the deletion does not impact any existing data or relationships.

ALTER TABLE Courses DROP COLUMN Description;

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