4

CREATE TABLE student (  
    S\_ID INT PRIMARY KEY,  
    name VARCHAR(50),  
    dept\_name VARCHAR(50),  
    tot\_cred INT  
);  
  
  
CREATE TABLE instructor (  
    T\_ID INT PRIMARY KEY,  
    name VARCHAR(50),  
    dept\_name VARCHAR(50),  
    salary DECIMAL(10, 2)  
);  
  
CREATE TABLE course (  
    course\_id INT PRIMARY KEY,  
    title VARCHAR(100),  
    dept\_name VARCHAR(50),  
    credits INT  
);  
  
INSERT INTO student (S\_ID, name, dept\_name, tot\_cred) VALUES  
(1, 'Alice', 'Computer', 100),  
(2, 'Bob', 'Math', 75),  
(3, 'Charlie', 'Computer', 120),  
(4, 'David', 'Physics', 90),  
(5, 'Eve', 'Computer', 110);  
  
  
INSERT INTO instructor (T\_ID, name, dept\_name, salary) VALUES  
(1, 'Amol', 'Computer', 45000.00),  
(2, 'Amit', 'Math', 48000.00),  
(3, 'John', 'Computer', 42000.00),  
(4, 'Mary', 'Physics', 55000.00),  
(5, 'Sarah', 'Math', 49000.00);  
  
INSERT INTO course (course\_id, title, dept\_name, credits) VALUES  
(101, 'DBMS', 'Computer', 4),  
(102, 'Algebra', 'Math', 3),  
(103, 'Physics 101', 'Physics', 3),  
(104, 'Programming 101', 'Computer', 4),  
(105, 'Calculus', 'Math', 4);  
  
--q1  
SELECT dept\_name, AVG(salary) AS avg\_salary  
FROM instructor  
GROUP BY dept\_name  
HAVING avg\_salary > 42000;  
  
--q2  
UPDATE instructor  
SET salary = salary \* 1.10  
WHERE dept\_name = 'Computer';  
  
--q3  
SELECT name  
FROM instructor  
WHERE name NOT IN ('Amol', 'Amit');  
  
--q4  
SELECT name  
FROM student  
WHERE name LIKE '%am%';  
  
--q5  
SELECT [s.name](http://s.name/)  
FROM student s  
JOIN course c ON s.dept\_name = 'Computer' AND c.title = 'DBMS';