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National University of Computer and Emerging Sciences

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Program:	BS(CS)	Total Marks:	10 marks	
Section:		Time Allowed	1: 10 minutes	
Date:	October 4, 2023	Instructor:	Bilal Khalid Dar	
Student Name:		Student Signa	Student Signature:	
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Important Instructions for attempting Quiz

READ ALL QUESTIONS AND INSTRUCTIONS CAREFULLY

- Carrying of Mobile phone, digital dairies, digital watch or any electronic device is not allowed.
- Use only Black/Blue color pen. Sharing of anything is forbidden.
- CUTTING IS NOT ALLOWED. Write your answer in provided space
- All questions are self-explanatory and require no further explanations during exam time
- **RETURN** the Quiz paper after completion.

Quiz 4 – DB

Consider the following database. The database has two sample tables (Students and Courses), where the student ID in the table course is a foreign key. If a query requires a join, you must use it (using join is mandatory).

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```
CREATE TABLE Students (
    StudentID INT PRIMARY KEY,
    StudentName VARCHAR(50),
    Age INT
);
StudentID | StudentName | Age
          | Alice
                       1 20
2
          I Bob
                        | 22
3
          | Carol
                        | 21
          | David
```

```
CREATE TABLE Courses (
    CourseID INT PRIMARY KEY,
    CourseName VARCHAR(50),
   StudentID INT
);
CourseID | CourseName
                      | StudentID
101
                      I 1
         Math
102
         | History
                      12
```

13

1 1

| Science

| Art

| Literature

Write SQL queries to retrieve specific information from the database.

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Get the list of courses and the students who are enrolled in them. Include courses with no enrolled students.

SELECT Courses.CourseName, Students.StudentName

FROM Courses

LEFT JOIN Students ON Courses.StudentID = Students.StudentID;

List all courses and the students who are enrolled in them. Include students who are not enrolled in any courses.

SELECT Courses.CourseName, Students.StudentName

FROM Courses

RIGHT JOIN Students ON Courses.StudentID = Students.StudentID;

List the names of students and the courses they are enrolled in.

SELECT Students.StudentName, Courses.CourseName

FROM Students

INNER JOIN Courses ON Students.StudentID = Courses.StudentID;

Retrieve the names of students who are enrolled in the "Math" course.

SELECT Students.StudentName

FROM Students

INNER JOIN Courses ON Students.StudentID = Courses.StudentID

WHERE Courses.CourseName = 'Math';

Find the names of all students, along with the courses they are enrolled in. Include students who are not enrolled in any courses.

SELECT Students.StudentName, Courses.CourseName

FROM Students

LEFT JOIN Courses ON Students.StudentID = Courses.StudentID;

Display the names of students and the courses they are enrolled in. Include courses with no enrolled students.

SELECT Students.StudentName, Courses.CourseName

FROM Students

RIGHT JOIN Courses ON Students.StudentID = Courses.StudentID;