



**Daffodil International University**  
**Department of Software Engineering**  
**Quiz-1, Fall-2025**

**Course Title: Database System**  
**Section: 43-D**  
**Time: 30 Minutes**

**Course Code: SE 223**  
**Teacher: CP**  
**Marks: 15**

**ID:** \_\_\_\_\_

**Sec:** \_\_\_\_\_

*[The figures in the right margin indicate the full marks. Responses must be written in the designated space, as no additional pages will be provided]*

**Q-1 :**  
**League\_1**

| Player ID | Name  | Age | Team Name          |
|-----------|-------|-----|--------------------|
| 1         | Rahim | 25  | Dhaka Warriors     |
| 2         | Sumon | 28  | Comilla Victorians |
| 3         | Imran | 30  | Dhaka Warriors     |

**League\_2**

| Player ID | Name | Age | Team Name         |
|-----------|------|-----|-------------------|
| 1         | Arif | 24  | Chittagong Kings  |
| 2         | Rafi | 28  | Chittagong Kings  |
| 3         | Alve | 23  | Durdanto Rajshahi |

Using Relational Algebra,

1. Display the player names along with their corresponding team names from the League\_1 table. **[1]**
2. Display the player names from the League\_2 table where the age is between 22 and 25. **[1]**
3. Display the **names and ages** of the players who play for Chittagong Kings. **[2]**
4. Display the **names and ages** of **all** players from **both tables**. **[2]**
5. Display the **ages** from League\_2 table that are not present in League\_1 table. **[2]**

## Q-2 :

Assume a Sports Management System where each team can have many players, and each league contains many teams. One player plays for only one team, and one team plays in only one league. One coach trains one team, and one team can play against one team at a time. Players are attributed with Player\_Name, Player\_ID, Phone, Age, Date\_of\_Birth, and Address, where Address is further divided into Present\_Address and Permanent\_Address. Leagues are attributed with League\_Name, League\_ID, Country and Establishment\_Year. Each Team is attributed with Team\_Name, No\_of\_Domestic\_Players and

No\_of\_International\_Players. Coaches are attributed with Coach\_ID, Coach\_Name, Team\_Name and Years\_of\_Experience.

Now, draw an ER diagram denoting the entities, types of attributes and proper cardinalities based on the above description. [7]