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

Course Title: Database System **Course Code: SE 223**
Section: 43-D **Teacher: CP**
Time: 30 Minutes **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}

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