

## Schema

### a) Table Definition

Table Name	Schema
Tournament	Tournament( <u>Name</u> : varchar, <u>Start_date</u> : date, End_date: date, Format: varchar, <b>Venue_name</b> : varchar, <b>Venue_city</b> : varchar, <b>Sponsor_ID</b> : int, <b>Winning_team</b> : int)
Match	Match( <u>Number</u> : int, Start_time: time, Stage: varchar, Score: int, Rounds: int, <b>Team1</b> : int, <b>Team2</b> : int, <b>Winner</b> : int, <b>Tournament_Name</b> : varchar, <b>Tournament_Start_date</b> : date)
Commentator	Commentator( <u>ID</u> : int, First_Name: varchar, Last_Name: varchar, Country: varchar)
Commentates	Commentates( <b>Tournament_Name</b> : varchar, <b>Tournament_Start_date</b> : date, <b>Commentator_ID</b> : int)
Broadcaster	Broadcaster( <u>ID</u> : int, Organization: varchar)
Broadcasts	Broadcasts( <b>Tournament_Name</b> : varchar, <b>Tournament_Start_date</b> : date, <b>Broadcaster_ID</b> : int)
Venue	Venue( <u>Name</u> : varchar, <u>City</u> : varchar, Country: varchar, Capacity: int)
Sponsor	Sponsor( <u>ID</u> : int, Name: varchar)
Team	Team( <u>ID</u> : int, Organization: varchar, Name: varchar, Country: varchar)
Coach	Coach( <u>ID</u> : int, First_name: varchar, Last_name: varchar, Country: varchar, Join_date: date, Years_experience: int, <b>Team_ID</b> : int)
BusinessMember	BusinessMember( <u>ID</u> : int, First_name: varchar, Last_name: varchar, Country: varchar, Join_date: date, Role: varchar, <b>Team_ID</b> : int)
Player	Player( <u>ID</u> : int, First_name: varchar, Last_name: varchar, Country: varchar, Join_date: date, Ranking: int, <b>Team_ID</b> : int)

### b) Keys and Constraints

	Primary Key	Candidate Key	Foreign Key	Constraints
<b>Tournament</b>	(Name, Start_date)	(Name, Start_date)	Venue_name, Venue_city, Sponsor_ID, Winning_team	<b>Not null</b> = End_date, Format

				<b>Misc:</b> End_date >= Start_date
<b>Match</b>	(Number, Tournament_Name, Tournament_Start_date)	(Number, Tournament_Name, Tournament_Start_date)	Team1, Team2, Winner, Tournament_Name, Tournament_Start_date	<b>Not null =</b> Stage, Rounds
<b>Commentator</b>	ID	ID	n/a	<b>Not null =</b> First_name, Last_name
<b>Commentates</b>	(Tournament_Name, Tournament_Start_date, Commentator_ID)	(Tournament_Name, Tournament_Start_date, Commentator_ID)	Tournament_Name, Tournament_Start_date, Commentator_ID	n/a
<b>Broadcaster</b>	ID	ID	n/a	<b>Not null =</b> Organizatio n
<b>Broadcasts</b>	(Tournament_Name, Tournament_Start_date, Broadcaster_ID)	(Tournament_Name, Tournament_Start_date, Broadcaster_ID)	Tournament_Name, Tournament_Start_date, Broadcaster_ID	n/a
<b>Venue</b>	(Name, City)	(Name, City)	n/a	<b>Not null =</b> Country
<b>Sponsor</b>	ID	ID	n/a	<b>Not null =</b> Name
<b>Team</b>	ID	ID, Name	n/a	<b>Not null =</b> Organizatio n, Name  <b>Unique =</b> Organizatio n, Name, Country
<b>Coach</b>	ID	ID	Team_ID	<b>Not null =</b> First_name, Last_name, Join_date, Country, Years_expe rience, Team_ID
<b>Business Member</b>	ID	ID	Team_ID	<b>Not null =</b> First_name, Last_name,

				Country, Join_date, Role, Team_ID
<b>Player</b>	ID	ID, Ranking	Team_ID	<b>Not null</b> = First_name, Last_name, Join_date, Country, Ranking, Team_ID  <b>Unique</b> = Ranking