Minimal Functional Dependency Set:

Owner_ID → Owner_Name

Owner_ID → Team_ID

Team_ID → Team_Name

Team_ID → Team_Code

Staff_ID → Staff_name

Staff_ID → Supporting_role

Staff_ID → Team_id

Sponsor_ID → Sponsor_Name

{Match_ID,Ball_No., Over_No. , Inning_No.} → Bowler

{Match_ID,Ball_No., Over_No. , Inning_No.} → Batsman_score

{Match_ID,Ball_No., Over_No. , Inning_No.} → Striker

{Match_ID,Ball_No., Over_No. , Inning_No.} → Non-Striker

{Match_ID,Ball_No., Over_No. , Inning_No.} → Extra_Runs

{Match_ID,Ball_No., Over_No. , Inning_No.} → Extra_Type

{Match_ID,Ball_No., Over_No. , Inning_No.} → Dismissal_Type

{Match_ID,Ball_No., Over_No. , Inning_No.} → Fielder_ID

Umpire_ID → Umpire_Name

Umpire_ID → Country

Player_ID → Player_name

Player_ID → Batting_Hand

Player_ID → Bowling_Type

Player_ID → DOB

Player_ID → Country

Player_ID → Score

Player_ID → Wickets

Player_ID → Catches

Match_ID → Season_ID

Match_ID → Team_ID_1

Match_ID → Team_ID_2

Match_ID → Date

Match_ID → Venue_Name

Match_ID → Toss_Won_By

Match_ID → Toss_Decision

Match_ID → Is_Superover

Match_ID → Is_DWL

Match_ID → Is_result

Match_ID → Win_Type

Match_ID → Won_By

Match_ID → Winning_Team_ID

Match_ID → Man_Of_The_Match

Match_ID → Umpire_ID_1

Match_ID → Umpire_ID_2

Match_ID → Team1_score

Match_ID → Team2_score

Match_ID → Team1_Wickets

Match_ID → Team2_Wickets

Venue_Name→City_ID

Venue_Name→Home_Team_ID

City_ID → City

City_ID → State

City_ID → Country

Season_ID →Man_Of_The_Series

Season_ID →Season_Year

Season_ID →Purple_Cap,

Season_ID →Orange_Cap

{Player_ID,Match_ID,Team_ID}→Is_Keeper

{Player_ID,Match_ID,Team_ID}→Is_Captain

{ Team_ID,Season_ID} → Position

{ Team_ID,Season_ID} → Matches_Played

{ Team_ID,Season_ID} → Won_matches

{ Team_ID,Season_ID} → Points

{ Team_ID,Season_ID} → Net_Run_Rate

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Proof That relations are in BCNF:

Relation Name	Projected FDs	Key(s)	Normal Form
Owner	Owner_ID → {Owner_Name,Team_ID}	Owner_ID	BCNF
Current_standings	{ Team_ID,Season_ID} → Position { Team_ID,Season_ID} → Matches_Played { Team_ID,Season_ID} → Won_matches { Team_ID,Season_ID} → Points { Team_ID,Season_ID} → Net_Run_Rate	Position	BCNF
Supporting_staff	Staff_ID → Staff_name Staff_ID → Supporting_Role Staff_ID →Team_ID	Staff_ID	BCNF
Venue	Venue_ID → City_ID Venue_ID → Home_Team_ID	Venue_ID	BCNF
City	City_ID → City City_ID → State City_ID → Country	City_ID	BCNF
Sponsors	Sponsor_ID → Sponsor_Name	Sponsor_ID	BCNF
Sponsored by	FD= {Φ}	{Team_Name,Sponsor_ID, Season_ID}	BCNF
Umpire	Umpire_ID → Umpire_Name Umpire_ID → Country	Umpire_ID	BCNF
Season	Season_ID → Man_Of_The_Series Season_ID →Orange_Cup Season_ID →Purple_Cap Season_ID → Season_year	Season_ID	BCNF
Matches	Match_ID →Season_ID Match_ID → {Team_ID_1,Team_ID_2}	Match_ID	BCNF

	Match_ID → {Date,Venue_Name} Match_ID → Toss_Won_By Match_ID → Toss_Decision Match_ID→Is_Superover Match_ID→Is_DWL Match_ID→Is_Result Match_ID→{Win_Type,Won_By} Match_ID→Winning_Team_ID Match_ID→Umpire_ID_1 Match_ID→Umpire_ID_2 Match_ID → Man_Of_The_Match Match_ID →Team1_score Match_ID →Team2_score Match_ID →Team1_Wickets Match_ID → Team2_Wickets		
Team	Team_ID → Team_Name Team_Name → Team_Code	Team_Name	BCNF
Players	Player_ID → Player_Name Player_ID → DOB Player_ID → Country Player_ID → No._Of_Matches Player_ID → Bowling_type Player_ID → Batting_Hand Player_ID → Score Player_ID → Wickets Player_ID → Catches	Player_ID	BCNF
Ball By Ball	{Match_ID,Ball_No. , Over_No. , Inning_No.} → Striker, Non-Striker, Bowler, Batsman_Score, Extra_Runs, Extra_Type, Fielder_ID, Dismissal_Type	{Match_ID,Ball No. , Over No. , Inning No.}	BCNF
Has Played	{Player_ID,Match_ID,Team_ID}→Is_Keeper {Player_ID,Match_ID,Team_ID}→Is_Captain	{Player_ID,Match_ID,Team_ID}	BCNF
Plays_for	FD= {Φ}	{Team_ID,Player_ID}	BCNF