| BASEBALL DATABASE |
|---|
| yearid |
| teamid |
| Team Name |
| park_key |
| Park Name |
| Park City |
| Park State |
| Games team played |
| Games team won |
| Games team lost |
| ManagerID |
| Manager lastname |
| Manager firstname |
| PlayerID |
| Player lastname |
| Player firstname |
| Player Birth Date |
| Player Birth City |
| Player Birth State |
| Player Birth Country |

Partial Dependency

Transitive Dependency

Partial Dependency

Transitive Dependency

Partial Dependency

PRIMARY KEY : Player_ID , yearID , teamID, ManagerID

Partial Dependency – noted in

Transition Dependency – noted in

**The relational schemas for all three of the formal forms.**

**1ˢᵗ Formal Form:**

Baseball (YearID, TeamID, ManagerID, PlayerID, Team_name, Park_key, Park_name, Park_city, Park_state, Games_team_played, Games_team_won, Games_team_lost, Manager_lastname, Manager_firstname, Player_lastname, Player_firstname, Player_birthdate, Player_birthcity, Player_birthstate, Player_birthcountry)

**2ⁿᵈ Normal :**

Team(YearID, TeamID, Team_name, Park_key, Park_name, Park_city, Park_state, Games_team_played, Games_team_won, Games_team_lost)

Manager (ManagerID, Manager_lastname,
Manager_firstname)

Player (Player_ID, Player_lastname, Player_firstname, Player_birthdate,
Player_birthcity, Player_birthstate, Player_birthdate, Player_birthcountry)

Key (YearID, TeamID, ManagerID,
PlayerID)

**3<sup>rd</sup> Normal Form:**

Park (Park_key, Park_name, Park_city,
Park_state)

Team (TeamID, Team_name,
Park_key)

TeamStat (YearID, TeamID, Games_team_played,
Games_team_won, Games_Team_lost)

Manager (ManagerID, Manager_lastname,
Manager_firstname)

Player (PlayerID, Player_lastname, Player_firstname, Player_birthdate,
Player_birthcity, Player_birthstate, Player_birthcountry)