Case Study: Data Warehouse for strikers Cricket Academy

1. Dimensions & Attributes

	Dimension	Attributes
1.	Player	player-ID, Name, Age, Gender, Role (Batsman/Bowler/All-rounder), squad (U12, U15, U19, U21), join-Date, Batting-hand, Bowling-style
2.	Coach	Coach-ID, Name, Specialization (Batting/Bowling/Fielding), Experience-level, campus
3	Team	Team ID, Team-name, Age-Group, Squad-size, campus
4.	Time	Date-ID, Date, Day, Week, Month, Quarter, year, season (summer/winter)
5.	Facility	Facility-ID, Facility-Type (Lane, machine, Gym), capacity, Location, Campus
6.	Session (Training/Drill)	Session-ID, Session-Type (Drill, practice, Fitness), Drill-name, Duration, Intensity-level
7.	Finance	Invoice-ID, payment-method, Discount-type, Due-date, Invoice-stat

2. Fact Tables & Measures

1. Match performance

Measures:
Runs, Balls faced, strike Rate, wickets, over-Bowled, Economy Rate, catches, Runouts

2. Training

measures:
Attendance (0/1), Drills completed, success Rate (.1.), fitness score, calories Burnt

3. Finance

measures:-
Invoice amount, payment Received, Due amount, Discount-applied, Days to pay

4. Facility Usage

measures:
Hours used, players using, Utilization 1, idle time

3. Grains

1. One row per player per match → match performance

2. One row per player per innings → detailed Batting & Bowling stats)

3. One row per player per training session → (attendance + outcomes)

4) One row per player per drill attempt (drill-level success tracking)

5. One row per player per fitness test (injury / fitness monitoring)

6. One row per player per day (aggregated daily activity)

7. One row per invoice per player (finance tracking)

8. One row per payment transaction (partial / comple payment)

9. One row per facility per booking slot (lane / machine usage)

10. One row per coach per training session (coach workload analysis)

11. One row per team per match (team level perfor")

12) One row per squad per season (progress & variance analysis)

13. One row per parent per month (progress & snapshot reports)

14. One row per facility per day (daily utilization summary)

15. One row per coach per player per season (impact of coaching on player)