DBMS Lab Assignment
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Assignment 1:

Problem Statement: Suppose you are given the following requirements for creating a simple database for the I-league, the National level football tournament in India:
·The I-League has many teams,
·Each team has a name, a city, a coach, a captain, and a set of players,
·Each player belongs to only one team,
·Each player has a name, a position (such as left wing or goalie), a skill level, and a set of injury records,
·A team captain is also a player,
·A game is played between two teams (referred to as host_team and guest_team) and has a date (such as May 11th, 1999) and a score (such as 4 to 2).

Requirements: Display the following reports to the user

1. Results of the matches played between two given dates within a season (2017)
The format can be:
Team 1, Team2, Date, Venue, Referee, Comments/Remarks (if any) [e.g. any red card incident or remarkable incident]

2. Comparative analysis of the goal scored per match (on average) during last three/ five seasons through Bar graphs
[Data has to be inputted accordingly]

3. Create a report on the Points table of participating teams [3 Points for win and 1 point for draw game]

Beside the above report the user can view:
Player list of a team, the team name is to be inputted by user through pop-up menu;

ERD: On the next page.

Relational Schema:

a) TEAM

Name	Coach	Home_City	Captain_id

b) PLAYER

P_id	Name	Position	Skill_level

c) INJURIES

P_id	Date	Type_of_injury	Duration

d) MATCHES

Home_Team	Away_Team	M_Date	Venue	H_Goals	A_Goals	M_Referee	Comment

e) PLAYS_FOR

Team_name	P_id

ERD For Assignment 1

Screenshots:

Fig 1: Insert for Player

Fig 2: Insert for Injury

Fig 3: Insert for Team

Fig 4: Insert for Match

Fig1: Shows interface to add a new player as well as to tranfer a player. (Option for Free Agent present here but not reflected into database.)

Fig 2: Interface for adding Injury record. Self explanatory

Fig 3: Interface to adding a new Team.

Fig 4: Interface for adding details of a match. Each time a match record is added, the database increases the point table accordingly.

Request Reports from the I-League Database.

Click Here to Insert into Database

| Match Report | Goal Report | Point Report | Team Details |

To view Comparative Analysis of the Average number of goals scored per Season, select the corresponding button.

- ○ Last 3 Seasons
- ○ Last 5 Seasons
- ● All

Compare Average Goals

Fig 5a: Comparsion Request Interface

Request Reports from the I-League Database.

Click Here to Insert into Database

| Match Report | Goal Report | Point Report | Team Details |

So you want all the details of the matches played between 2 dates? Pick up the Dates below in order to get the result(or don't). Dates are optional.

From: mm/dd/yyyy

To: mm/dd/yyyy

Submit **Reset**

Fig 5b: Match Request Interface

Request Reports from the I-League Database.

Click Here to Insert into Database

| Match Report | Goal Report | Point Report | Team Details |

To view the Points Table for a Season, please select the Season

Season: 2013 ▾

Submit **Reset**

Fig 5c: Point Request Interface

Request Reports from the I-League Database.

Click Here to Insert into Database

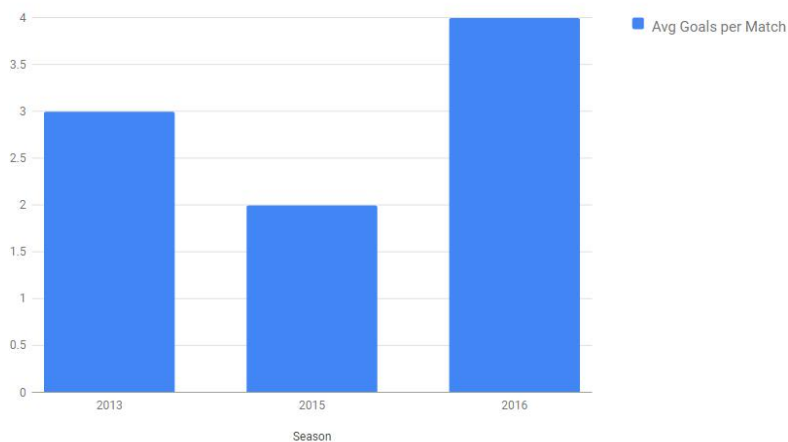| Match Report | Goal Report | Point Report | Team Details |

To view the details of a team, select the team.

Team: AIZAWL ▾

Submit **Reset**

Fig 5d: Team Detail Request Interface

The Details of last 3 seasons are:

Comparative Analysis of Goals per match

- Avg Goals per Match

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Fig 6a: Comparision Report View

The Details for EAST BENGAL are:

Coach: KHALID JAMIL

Home City: KOLKATA

Name	Position	Skill Level
DHANARAJAN	DEFENDER	80
SOUMIK DEY	FORWARD	40
BIKRAM PAL	GOAL KEEPER	60
RICHARD COSTA	MIDFIELDER	64
MEHTAB HOSSAIN	MIDFIELDER	90
RANTI MARTIN	MIDFIELDER	50

Key:
Red:Captain

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Fig 6d: Team Detail View

The Point Table for Season 2017 is:

Team Name	Points
MOHUN BAGAN	4
LAJONG FC	3
AIZAWL	1
EAST BENGAL	1
MINERVA PUNJAB FC	1

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Fig6c:PointView

The Match Results from 2015-01-05 to 2018-01-02 are:

Match Date	Home Team	Away Team	Venue	Score	Referee	Comments
2015-02-01	MUMBAI CITY FC	EAST BENGAL	Chatrapati Shivaji Stadium	0 : 0	Bruce Mayne	
2015-05-30	LAJONG FC	MOHUN BAGAN	Manipal	5 : 1	Clark Dent	
2015-05-31	BENGALURU FC	MOHUN BAGAN	Bangalore Stadium	1 : 1	Denver Riddle	
2016-01-09	MOHUN BAGAN	AIZAWL	Yuva Bharati	3 : 1	Wang Shen	
2016-01-10	SPORTING CLUB GOA	EAST BENGAL	Goa	1 : 3	Mike Dean	
2016-02-27	MUMBAI CITY FC	SPORTING CLUB GOA	Chatrapati Shivaji Stadium	2 : 2	Clent Russel	
2017-11-25	MINERVA PUNJAB FC	MOHUN BAGAN	Guru Nanak Stadium	1 : 1	Martin Atkinson	Inaugural Match of I league 2017
2017-11-27	LAJONG FC	GOKULAM KERALA	Jin Stadium	1 : 0	Wang Shen	
2017-11-28	EAST BENGAL	AIZAWL	Vybk Stadium	2 : 2	Anthony Taylor	
2017-12-03	MOHUN BAGAN	EAST BENGAL	Vybk Stadium	1 : 0	Mike Dean	Derby

Key:
Green:Home Win
Red:Away Win
Yellow:Draw

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Fig6b : Match Detail View