**American International University-Bangladesh**

# Introduction to Database

Course project

PROJECT   TITLE: FOOTBALL TOURNAMENT DATABASE MANAGEMENT

17-APRIL-2019

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# PREFACE

Rapid advances in computing and communication technologies and ever-reducing computer costs have resulted in phenomenal growth of computer applications in everyday life. Also, the dependence of the business establishment on computers is increasing at an accelerated pace, making the 21st century an information-intensive business environment. The key to success of a modern business is an effective data-management strategy and interactive data-analysis capabilities.

This project is a part of our undergraduate course, introduction to database. This project holds only a basic schema of database management system and further shows how a database system can allow users to access their data more efficiently.

# Acknowledgement

Apart from the efforts of ours, the success of any project depends largely on the encouragement and guidelines of many others. we take this opportunity to express our gratitude to the people who have been instrumental in the successful completion of this project.

we would like to show our greatest appreciation to our course teacher Rifat Tasnim Ananya. We can't thank enough for her tremendous support and help. we feel motivated and encouraged every time we attend her lectures. Without her encouragement and guidance this project would not have materialized.

The guidance and support received from all the members who contributed and who are contributing to this project, was vital for the success of the project. we are grateful for their constant support and help.
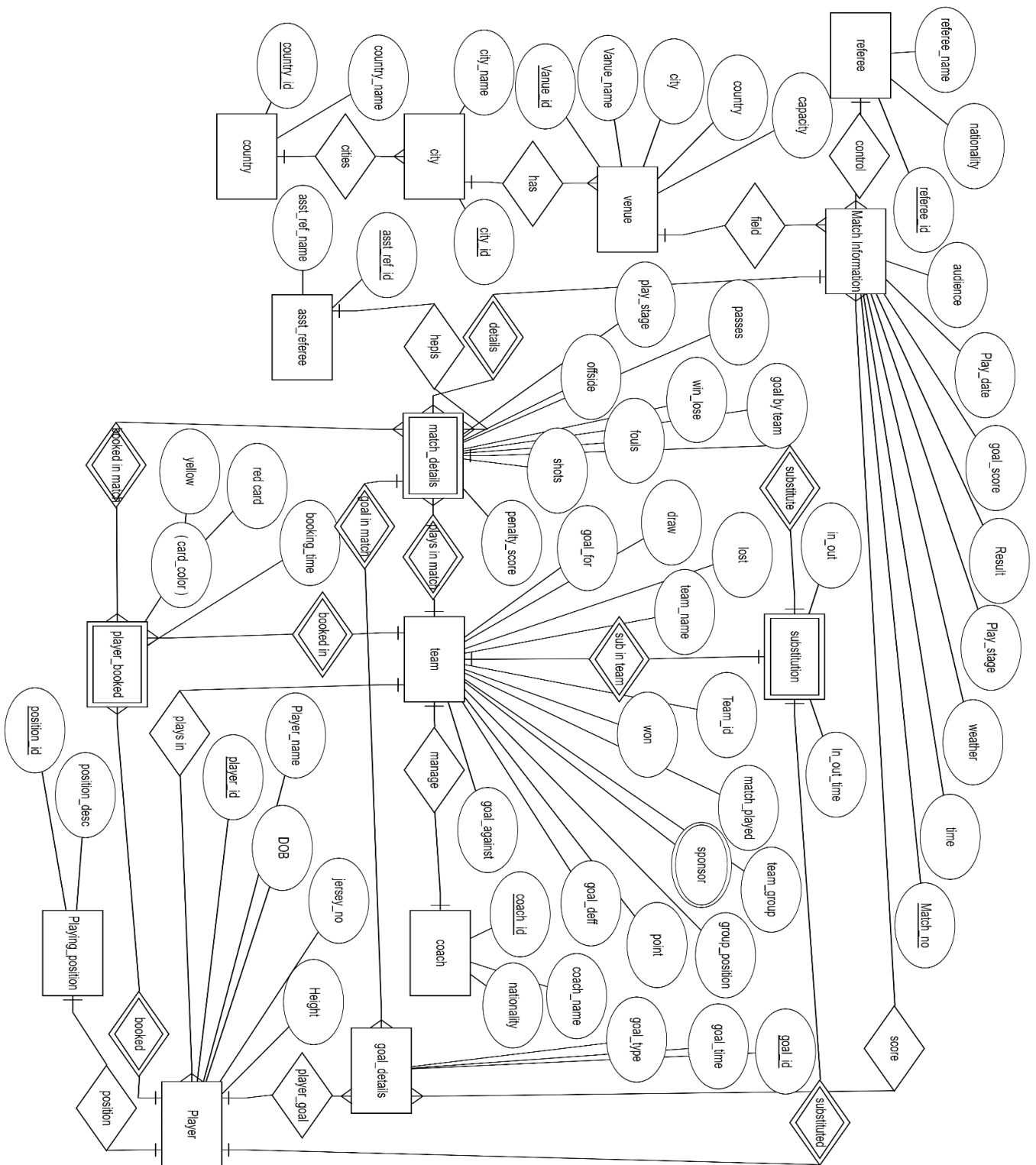
## 1.1 Database scenario

UEFA wants to create a database for UEFA FUTSAL EURO 2018 hosted by Spain, Italy and England in which 12 teams participated divided into four groups. Followed by the requirements:

- Teams has unique id and also team name, a couch, sponsor, country, win, lost, score, group, position and a couch who are identified with coach id.
- There are six players in each team identified by player id. Player name, jersey number, date of birth, height, age, playing position and nationality must be recorded.
- Match details are recorded as: match no, win, loss, time, goals, weather, play time, shot, penalty, passes, audience, goal by team etc.
- For referee and assistant referee name, id is recorded.
- Venue: name, city, country, capacity.
- During match fouls are also recorded as red card and yellow card along with player name.
- As for match score win, loose, draw is recorded along with scorer and assisted player.
- Booking is recorded as red and yellow card along with booking time.
- Goal details for each player are recorded with in goal time.
- For substitution two players are exchanged in some between of match time which is also to be recorded.
- Each player plays in a unique position.

## 1.2 ER-Diagram

## 2. Normalization

### 2.1 Entity Relationship normalization

**1. CITIES**:(COUNTRY_ID, COUNTRY_NAME, CITY_ID, CITY_NAME)

1NF: NO MULTIVALUTED ATTRIBUTE

2NF:

    1.COUNTRY_ID, COUNTRY_NAME

    2. CITY_ID, CITY_NAME

**TABLES FOR CITIES:**

    1.COUNTRY_ID, COUNTRY_NAME

    2.CITY_ID, CITY_NAME, COUNTRY_ID(FK)

**2. HAS**:(CITY_ID, CITY_NAME, VENUE_ID, VENUE_NAME, CAPACITY)

1NF:NO MULTIVALUTED ATTRIBUTE

2NF:

    1.CITY_ID, CITY_NAME

     2.VENUE_ID, VENUE_NAME, CAPACITY

**TABLES FOR HAS:**

    1.CITY_ID, CITY_NAME

    2.VENUE_ID, VENUE_NAME, CAPACITY, CITY_ID(FK)

**3. FIELD**:(VENUE_ID, VENUE_NAME, CAPACITY, MATCH_NO, PLAY_STAGE, PLAY-DATE, TIME, AUDIENCE, WEATHER)

1NF:NO MULTIVALUTED ATTRIBUTE

2NF:

    1.VENUE_ID, VENUE_NAME, CAPACITY

    2. MATCH_NO, PLAY_STAGE, PLAY-DATE, TIME, AUDIENCE, WEATHER

**TABLES FOR FIELD:**

  1.VENUE_ID, VENUE_NAME, CAPACITY

  2.MATCH_NO, PLAY_STAGE, PLAY-DATE, TIME,

   AUDIENCE, WEATHER, VENUE-NO(FK), RESULT_NO (FK

   3.RESULT_NO, GOAL_SCORE, RESULT

**4. CONTROL**:(MATCH_NO, PLAT_STAGE, PLAY_DATE, WEATHER, AUDIENCE, REFREE_ID, REFREE_NAME, NATIONALITY)

1NF:NO MULTIVALUTED ATTRIBUTE

2NF:

    1. MATCH_NO, PLAT_STAGE, PLAY_DATE, WEATHER, AUDIENCE

     2. REFREE_ID, REFREE_NAME, NATIONALITY

**TABLES FOR CONTROL:**

  1.MATCH_NO, PLAT_STAGE, PLAY_DATE, WEATHER,

   AUDIENCE, REFREE_ID(FK)

  2.REFREE_ID, REFREE_NAME, NATIONALITY

**5. MANAGE**:(<u>COACH_ID</u>, COACH_NAME, NATIONALITY, <u>TEAM_ID</u>, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS, DRAW, GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION, SPONSOR)

1NF: SPONSOR MULTIVALUED ATTRIBUTE

2NF:

    1.<u>COACH_ID</u>, COACH_NAME, NATIONALITY

    2.<u>TEAM_ID</u>, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS, DRAW, GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION, SPONSOR

**TABLES FOR MANAGE:**

    1.<u>COACH_ID</u>, COACH_NAME, NATIONALITY

    2.<u>TEAM_ID</u>, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS, DRAW, GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION

    COACH_ID(FK)

    3. <u>TEAM_ID</u>, SPONSOR

**6.PLAYS_IN**:(<u>PLAYER_ID</u>, PLAYER_NAME, JERSEY_NO, HEIGHT, DOB, <u>TEAM_ID</u>, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS, DRAW, GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION, SPONSOR)

1NF: SPONSOR MULTIVALUED ATTRIBUTE

2NF:

    1.<u>PLAYER_ID</u>, PLAYER_NAME, JERSEY_NO, HEIGHT, DOB

    2.<u>TEAM_ID</u>, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS, DRAW, GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION

    3. <u>TEAM_ID</u>, SPONSOR

**TABLES FOR PLAYS_IN:**

   1.PLAYER_ID, PLAYER_NAME, JERSEY_NO, HEIGHT, DOB, TEAM_ID(FK)

   2.TEAM_ID, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS, DRAW,

    GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION

   3. TEAM_ID, SPONSOR

**7.BOOKED**:(PLAYER_ID, PLAYER_NAME, JERSEY_NO, HEIGHT, DOB, BOOKING_TIME, YELLOW_CARD, RED_CARD)

1NF:NO MULTIVALUTED ATTRIBUTE

2NF:

    1. PLAYER_ID, PLAYER_NAME, JERSEY_NO, HEIGHT, DOB

    2. BOOKING_TIME, YELLOW_CARD, RED_CARD

**TABLES FOR BOOKED:**

   1.PLAYER_ID, PLAYER_NAME, JERSEY_NO, HEIGHT, DOB

   2.BOOKING_TIME, YELLOW_CARD, RED_CARD, PLAYER_ID(FK)

**8.BOOKED_IN:**(TEAM_ID, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS, DRAW, GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION, SPONSOR, BOOKING_TIME, YELLOW_CARD, RED_CARD)

1NF: SPONSOR MULTIVALUTED ATTRIBUTE

2NF:

    1.TEAM_ID, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS,

DRAW, GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION, SPONSOR

2.BOOKING_TIME, YELLOW_CARD, RED_CARD

**TABLES FOR BOOKED_TEAM:**

1.<u>TEAM_ID</u>, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS, DRAW,

GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION

2.BOOKING_TIME, Y ELLOW_CARD, RED_CARD, TEAM_ID(FK)

3. <u>TEAM_ID</u>, SPONSOR

**9. BOOKED_IN_MATCH:(**MATCH_NO, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL, WIN_LOSE, PENALTY_SCORE, BOOKING_TIME, YELLOW_CARD, RED_CARD)

1NF:NO MULTIVALUTED ATTRIBUTE

2NF:

1.<u>MATCH_NO</u>, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE,

FOUL, WIN_LOSE, PENALTY_SCORE

2. BOOKING_TIME, YELLOW_CARD, RED_CARD

**TABLES FOR BOOKED_MATCH:**

1.<u>MATCH_NO</u>, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL,

WIN_LOSE, PENALTY_SCORE

2.BOOKING_TIME, YELLOW_CARD, RED_CARD, MATCH_NO(FK)

**10**. **SUBSTITUTED**:(IN_OUT, IN_OUT-TIME, <u>PLAYER_ID</u>, PLAYER_NAME, DOB, JERSEY_NO, HEIGHT)

1NF:NO MULTIVALUTED ATTRIBUTE

2NF:

    1.<u>PLAYER_ID</u>, PLAYER_NAME, DOB, JERSEY_NO, HEIGHT

    2.IN_OUT, IN_OUT-TIME


**TABLES FOR SUBSTITUITED:**

    1.<u>PLAYER_ID</u>, PLAYER_NAME, DOB, JERSEY_NO, HEIGHT

    2.IN_OUT, IN_OUT-TIME, PLAYER_ID(FK)


**11. SUB_IN_TEAM**:(IN_OUT, IN_OUT-TIME, T EAM_ID, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS, DRAW, GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION, SPONSOR)


1NF: SPONSOR MULTIVALUTED ATTRIBUTE

2NF:

    1.IN_OUT, IN_OUT-TIME

    2.<u>TEAM_ID</u>, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS,

    DRAW, GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION, SPONSOR


**TABLES FOR SUB_IN_TEAM:**

    1.IN_OUT, IN_OUT-TIME, TEAM_ID(FK)

    2.<u>TEAM_ID</u>, TEAM_NAME, TEAM_GROUP, MATCH_PLAYED, WON, LOSS, DRAW,

    GOAL_FOR, GOAL_AGAINST, POINTS, GROUP_POSITION

    3. <u>TEAM_ID</u>, SPONSOR


**12**. **SUBSTITUTE**:(IN_OUT, IN_OUT-TIME, <u>MATCH_NO</u>, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL, WIN_LOSE, PENALTY_SCORE)

1NF:NO MULTIVALUTED ATTRIBUTE

2NF:

    1.IN_OUT, IN_OUT-TIME

    2. <u>MATCH_NO,</u> PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE,

       FOUL, WIN_LOSE, PENALTY_SCORE


**TABLES FOR SUBSTITUTE:**

    **1.** IN_OUT, IN_OUT-TIME, MATCH_NO(FK)

    **2**. <u>MATCH_NO</u>, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL,

      WIN_LOSE, PENALTY_SCORE


**13.GOAL_IN_MATCH**:(<u>GOAL_ID</u>, GOAL_TYPE, GOAL_TIME, MATCH_NO, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL, WIN_LOSE, PENALTY_SCORE)


1NF: NO MULTIVALUTED ATTRIBUTE

2NF:

    1.<u>GOAL_ID</u>, GOAL_TYPE, GOAL_TIME

    2.<u>MATCH_NO</u>, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE,

    FOUL, WIN_LOSE, PENALTY_SCORE

3NF:

    1.<u>GOAL_ID</u>, GOAL_TYPE, GOAL_TIME

    2.<u>MATCH_NO</u>, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE,

      FOUL, WIN_LOSE, PENALTY_SCORE, RESULT_NO(FK)

    3.<u>RESULT_NO</u>, RESULT, GOAL_SCORE


**TABLES FOR GOAL_IN_MATCH:**

    1.<u>GOAL_ID</u>, GOAL_TYPE, GOAL_TIME, MATCH_NO(FK)

2.<u>MATCH_NO</u>, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL,

WIN_LOSE, PENALTY_SCORE, RESULT_NO(FK)

3.<u>RESULT_NO</u>, RESULT, GOAL_SCORE

**14. SCORE**:(<u>GOAL_ID</u>, GOAL_TYPE, GOAL_TIME, <u>MATCH_NO</u>, PLAT_STAGE, PLAY_DATE,

WEATHER, AUDIENCE, RESULT, GOAL_SCORE)

1NF:NO MULTIVALUTED ATTRIBUTE

2NF:

1.<u>GOAL_ID,</u> GOAL_DETAILS, GOAL_TYPE, GOAL_TIME

2.<u>MATCH_NO</u>, PLAT_STAGE, PLAY_DATE, WEATHER, AUDIENCE, RESULT,

GOAL_SCORE

3NF:

1. <u>GOAL_ID</u>, GOAL_TYPE, GOAL_TIME

2.<u>MATCH_NO</u>, PLAT_STAGE, PLAY_DATE, WEATHER, AUDIENCE, RESULT,

GOAL_SCORE

3.<u>RESULT_NO</u>, GOAL_SCORE, RESULT

**TABLES FOR SCORE:**

1. <u>GOAL_ID,</u> GOAL_TYPE, GOAL_TIME, MATCH_NO(FK), RESULT_NO(FK)

2. <u>MATCH_NO</u>, PLAT_STAGE, PLAY_DATE, WEATHER, AUDIENCE, RESULT,

GOAL_SCORE

3. <u>RESULT_NO</u>, GOAL_SCORE, RESULT

**15. PLAYER_GOAL**:( <u>GOAL_ID</u>, GOAL_TYPE, GOAL_TIME, <u>PLAYER_ID</u>, PLAYER_NAME, DOB,
JERSEY_NO, HEIGHT)

1NF:NO MULTIVALUTED ATTRIBUTE

2NF:

    1. <u>GOAL_ID</u>, GOAL_TYPE, GOAL_TIME

    2. <u>PLAYER_ID</u>, PLAYER_NAME, DOB, JERSEY_NO, HEIGHT

**TABLES FOR SCORE:**

    1. <u>GOAL_ID</u>, GOAL_TYPE, GOAL_TIME, PLAYER_ID(FK)

    2. <u>PLAYER_ID</u>, PLAYER_NAME, DOB, JERSEY_NO, HEIGHT

**16. HELPS**:( ASST_REF_ID, ASST_REF_ID, MATCH_NO, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL, WIN_LOSE, PENALTY_SCORE)

1NF: NO MULTIVALUTED ATTRIBUTE

2NF:

    1. <u>ASST_REF_ID</u>, ASST_REF_ID

   2.<u>MATCH_NO</u>, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL,

     WIN_LOSE, PENALTY_SCORE

**TABLES FOR HELPS:**

   1.<u>ASST_REF_ID</u>, ASST_REF_ID

   2.<u>MATCH_NO</u>, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL,

     WIN_LOSE, PENALTY_SCORE, ASST_ID(FK)

**17. DETAILS:**( MATCH_NO, PLAT_STAGE, PLAY_DATE, WEATHER, AUDIENCE, RESULT, GOAL_SCORE, MATCH_NO, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL, WIN_LOSE, PENALTY_SCORE)

1NF: NO MULTIVALUTED ATTRIBUTE

2NF:

   1.MATCH_NO, PLAT_STAGE, PLAY_DATE, WEATHER, AUDIENCE, RESULT,

   GOAL_SCORE

   2.MATCH_NO, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL,

     WIN_LOSE, PENALTY_SCORE

 3NF:

     1.MATCH_NO, PLAT_STAGE, PLAY_DATE, WEATHER, AUDIENCE, RESULT,

       GOAL_SCORE

     2.MATCH_NO, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE,

       FOUL, WIN_LOSE, PENALTY_SCORE

      3. RESULT_NO, RESULT, GOAL_SCORE

**TABLES FOR DETAILS:**

   1.MATCH_NO, PLAT_STAGE, PLAY_DATE, WEATHER, AUDIENCE, RESULT,

    GOAL_SCORE

   2.MATCH_NO, PLAY_STAGE, GOAL_BY_TEAM, PASSES, SHOTS, OFFSIDE, FOUL,

     WIN_LOSE, PENALTY_SCORE, RESULT_NO(FK)

   3. RESULT_NO, RESULT, GOAL_SCORE

**18. POSITION**:( PLAYER_ID, PLAYER_NAME, DOB, JERSEY_NO, HEIGHT, POSITION_ID, POSITION_DESC)

1NF: NO MULTIVALUTED ATTRIBUTE

2NF:

    1. <u>PLAYER_ID,</u> PLAYER_NAME, DOB, JERSEY_NO, HEIGHT

    2. <u>POSITION_ID,</u> POSITION_DESC

**TABLES FOR POSITION:**

  1. <u>PLAYER_ID</u>, PLAYER_NAME, DOB, JERSEY_NO, HEIGHT

  2. <u>POSITION_ID,</u> POSITION_DESC, PLAYER_ID(FK)

**19.FIELD:**(<u>VENUE_ID</u>, VENUE_NAME, CAPCITY, MATCH_NO, PLAY_STAGE, PLAY_DATE, TIME, AUDIENCE, WEATHER, GOAL_SCORE, RESULT)

1NF: NO MULTIVALUTED ATTRIBUTE

2NF:

    1.<u>VENUE_ID</u>, VENUE_NAME, CAPCITY

    2.<u>MATCH_NO</u>, PLAY_STAGE, PLAY_DATE, TIME, AUDIENCE, WEATHER,

     GOAL_SCORE, RESULT

3NF:

    1.<u>VENUE_ID</u>, VENUE_NAME, CAPCITY.

    2.<u>MATCH_NO</u>, PLAY_STAGE, PLAY_DATE, TIME, AUDIENCE, WEATHER,

     GOAL_SCORE, RESULT.

    3.<u>RESULT_NO</u>, RESULT, GOAL_SCORE

**TABLES FOR FIELD:**

  1. <u>VENUE_ID</u>, VENUE_NAME, CAPCITY

  2. <u>MATCH_NO</u>, PLAY_STAGE, PLAY_DATE, TIME, AUDIENCE, WEATHER,

    GOAL_SCORE, RESULT, VENUE_ID(FK), RESULT_NO(FK)

3. <u>RESULT_NO</u>, RESULT, GOAL_SCORE

## 2.2 Final Tables:

### 1. PLAYER

| PLAYER_ID(PK) | PLAYER_NAME | DOB | JERSEY_NO | HEIGHT | TEAM_ID | POSITION_ID(FK) |
|---|---|---|---|---|---|---|
| | | | | | | |

| TEAM_ID(PK) | TEAM_NAME | TEAM_GROUP | MATCH_PLAYED | WON | LOSE | DRAW | GOAL_FOR | GOAL_AGAINST | GOAL_DIFFERENCE | POINT | GROUP_POSITION | COUCH_ID(FK) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | |

### 2. TEAM

### 3. MATCH_INFORMATION

| MATCH_NO(PK) | PLAY_STAGE | PLAY_DATE | PLAY_TIME | WEATHER | RESULT_ID | AUDIENCE | VENUE_ID(FK) | REFEREE_ID(FK) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

### 4. MATCH_DETAILS

| MATCH_NO | PLAY_STAGE | TEAM_ID | WIN_LOSE | GOAL_BY_TEAM | PENALTY_SCORED | ASSIST_REF_ID(FK) | PASSES | OFFSIDES | FAUL |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

### 5.VENUE

| VENUE_ID(PK) | VENUE_NAME | CAPACITY | CITY_ID(FK) |
|---|---|---|---|
| | | | |

### 6. POSITION

| POSITION_ID(FK) | POSITION_DESC |
|---|---|
| | |

### 7. GOAL

| GOAL_ID(PK) | MATCH_NO | PLAYER_ID | GOAL_TIME | GOAL_TYPE |
|---|---|---|---|---|
| | | | | |

### 8. COUNTRY

| COUNTRY_ID(PK) | COUNTRY_NAME |
|---|---|
| | |

## 9. COACH

| COACH_ID(PK) | COACH_NAME | NATIONALITY |
|---|---|---|

## 10. CITY

| CITY_ID(PK) | COUNTRY_ID(FK) | CITY_NAME |
|---|---|---|

## 11.BOOKING

| MATCH_NO | TEAM_ID(FK) | PLAYER_ID(FK) | BOOKING_TIME | RED_CARD | YELLOW_CARD |
|---|---|---|---|---|---|

## 12. REFEREE

| REFEREE_ID(PK) | REFEREE_NAME | NATIONALITY |
|---|---|---|

## 13. ASSISTANT_REFEREE

| ASSIST_REFF_ID(PK) | ASSIST_REF_NAME |
|---|---|

## 14. RESULT

| RESULT_ID(PK) | SCORE | RESULT |
|---|---|---|

## 15. SPONSOR

| TEAM_ID(PK) | SPONSOR_NAME |
|---|---|

## 16.SUBSTITUTION

| MATCH_NO | TEAM_ID(FK) | PLAYER_ID(FK) | PLAYER_IN_OUT | IN_OUT_TIME |
|---|---|---|---|---|

# 3. Data Tables

## 3.1 Table creation:

**1. SPONSOR:**

Object Type **TABLE** Object **SPONSOR**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| SPONSOR | TEAM_ID | Number | - | 20 | 0 | - | ✓ | - | - |
| | SPONSOR_NAME | Varchar2 | 15 | - | - | - | ✓ | - | - |
| | | | | | | | | | 1 - 2 |

**2. TEAM:**

Object Type **TABLE** Object **TEAM**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| TEAM | TEAM_ID | Number | - | 20 | 0 | 1 | - | - | - |
| | TEAM_NAME | Varchar2 | 15 | - | - | - | ✓ | - | - |
| | TEAM_GROUP | Varchar2 | 15 | - | - | - | ✓ | - | - |
| | MATCH_PLAYED | Number | - | 20 | 0 | - | ✓ | - | - |
| | WON | Number | - | 20 | 0 | - | ✓ | - | - |
| | DRAW | Number | - | 20 | 0 | - | ✓ | - | - |
| | LOSE | Number | - | 20 | 0 | - | ✓ | - | - |
| | GOAL_FOR | Number | - | 20 | 0 | - | ✓ | - | - |
| | GOAL_AGAINST | Number | - | 20 | 0 | - | ✓ | - | - |
| | GOAL_DIFFERENCE | Number | - | 20 | 0 | - | ✓ | - | - |
| | POINT | Number | - | 20 | 0 | - | ✓ | - | - |
| | GROUP_POSITION | Number | - | 20 | 0 | - | ✓ | - | - |
| | COACH_ID | Number | - | 20 | 0 | - | ✓ | - | - |
| | | | | | | | | | 1 - 13 |

## 3. PLAYER:

Object Type **TABLE** Object **PLAYER**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| PLAYER | PLAYER_ID | Number | - | 20 | 0 | 1 | - | - | - |
|  | PLAYER_NAME | Varchar2 | 15 | - | - | - | ✔ | - | - |
|  | DOB | Number | - | 20 | 0 | - | ✔ | - | - |
|  | JERSEY_NO | Number | - | 20 | 0 | - | ✔ | - | - |
|  | HEIGHT | Number | - | 20 | 0 | - | ✔ | - | - |
|  | TEAM_ID | Number | - | 20 | 0 | - | ✔ | - | - |
|  | POSITION_ID | Number | - | 20 | 0 | - | ✔ | - | - |
|  |  |  |  |  |  |  |  | 1 - 7 | |

## 4. REFEREE:

Object Type **TABLE** Object **REFEREE**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| REFEREE | REFEREE_ID | Number | - | 20 | 0 | 1 | - | - | - |
|  | REFEREE_NAME | Varchar2 | 15 | - | - | - | ✔ | - | - |
|  | NATIONALITY | Varchar2 | 20 | - | - | - | ✔ | - | - |
|  |  |  |  |  |  |  |  | 1 - 3 | |

## 5. ASSISTANT_REFEREE:

Object Type **TABLE** Object **ASSISTANT_REFEREE**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| ASSISTANT_REFEREE | ASSIST_REF_ID | Number | - | 20 | 0 | 1 | - | - | - |
|  | ASSIST_REF_NAME | Varchar2 | 15 | - | - | - | ✔ | - | - |
|  |  |  |  |  |  |  |  | 1 - 2 | |

## 6. COACH:

Object Type **TABLE** Object **COACH**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| COACH | COACH_ID | Number | - | 20 | 0 | 1 | - | - | - |
|  | COACH_NAME | Varchar2 | 15 | - | - | - | ✔ | - | - |
|  | NATIONALITY | Varchar2 | 15 | - | - | - | ✔ | - | - |
|  |  |  |  |  |  |  |  | 1 - 3 | |

## 7. MATCH_DETALS:

Object Type **TABLE** Object **MATCH_DETAILS**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|---|---|---|---|---|---|---|---|---|---|
| MATCH_DETAILS | MATCH_NO | Number | - | 20 | 0 | - | ✔ | - | - |
| | PLAY_STAGE | Varchar2 | 15 | - | - | - | ✔ | - | - |
| | TEAM_ID | Number | - | 20 | 0 | - | ✔ | - | - |
| | WIN_LOSE | Varchar2 | 15 | - | - | - | ✔ | - | - |
| | GOAL_BY_TEAM | Number | - | 20 | 0 | - | ✔ | - | - |
| | PENALTY_SCORED | Number | - | 20 | 0 | - | ✔ | - | - |
| | ASSIST_REF_ID | Number | - | 20 | 0 | - | ✔ | - | - |
| | PASSES | Number | - | 20 | 0 | - | ✔ | - | - |
| | OFFSIDES | Number | - | 20 | 0 | - | ✔ | - | - |
| | FAUL | Number | - | 20 | 0 | - | ✔ | - | - |
| | | | | | | | | | 1 - 10 |

## 8. MATCH_INFORMATION:

Object Type **TABLE** Object **MATCH_INFORMATION**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|---|---|---|---|---|---|---|---|---|---|
| MATCH_INFORMATION | MATCH_NO | Number | - | 20 | 0 | 1 | - | - | - |
| | PLAY_STAGE | Varchar2 | 15 | - | - | - | ✔ | - | - |
| | PLAY_DATE | Number | - | 20 | 0 | - | ✔ | - | - |
| | PLAY_TIME | Varchar2 | 15 | - | - | - | ✔ | - | - |
| | WEATHER | Varchar2 | 15 | - | - | - | ✔ | - | - |
| | RESULT_ID | Number | - | 20 | 0 | - | ✔ | - | - |
| | AUDIENCE | Number | - | 20 | 0 | - | ✔ | - | - |
| | VANUE_ID | Number | - | 20 | 0 | - | ✔ | - | - |
| | REFEREE_ID | Number | - | 20 | 0 | - | ✔ | - | - |
| | | | | | | | | | 1 - 9 |

## 9.GOAL:

Object Type **TABLE** Object **GOAL**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| GOAL | GOAL_ID | Number | - | 20 | 0 | 1 | - | - | - |
| | MATCH_NO | Number | - | 20 | 0 | - | ✓ | - | - |
| | PLAYER_ID | Number | - | 20 | 0 | - | ✓ | - | - |
| | GOAL_TIME | Number | - | 20 | 0 | - | ✓ | - | - |
| | GOAL_TYPE | Varchar2 | 15 | - | - | - | ✓ | - | - |
| | | | | | | | | | 1 - 5 |

## 10.POSITION:

Object Type **TABLE** Object **POSITION**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| POSITION | POSITION_ID | Number | - | 20 | 0 | 1 | - | - | - |
| | POSITION_DESC | Varchar2 | 20 | - | - | - | ✓ | - | - |
| | | | | | | | | | 1 - 2 |

## 11. COUNTRY:

Object Type **TABLE** Object **COUNTRY**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| COUNTRY | COUNTRY_ID | Number | - | 20 | 0 | 1 | - | - | - |
| | COUNTRY_NAME | Varchar2 | 15 | - | - | - | ✓ | - | - |
| | | | | | | | | | 1 - 2 |

## 12. CITY:

Object Type **TABLE** Object **CITY**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| CITY | CITY_ID | Number | - | 20 | 0 | 1 | - | - | - |
| | COUNTRY_ID | Number | - | 20 | 0 | - | ✓ | - | - |
| | CITY_NAME | Varchar2 | 20 | - | - | - | ✓ | - | - |
| | | | | | | | | | 1 - 3 |

## 13. BOOKING:

Object Type **TABLE** Object **BOOKING**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| BOOKING | MATCH_NO | Number | - | 20 | 0 | - | ✓ | - | - |
| | TEAM_ID | Number | - | 20 | 0 | - | ✓ | - | - |
| | PLAYER_ID | Number | - | 20 | 0 | - | ✓ | - | - |
| | BOOKING_TIME | Number | - | 20 | 0 | - | ✓ | - | - |
| | RED_YELLOW_CARD | Varchar2 | 15 | - | - | - | ✓ | - | - |
| | | | | | | | | | 1 - 5 |

# 14. VENUE:

Object Type **TABLE** Object **VENUE**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| VENUE | VENUE_ID | Number | - | 20 | 0 | 1 | - | - | - |
| | VENUE_NAME | Varchar2 | 15 | - | - | - | ✓ | - | - |
| | CAPACITY | Number | - | 20 | 0 | - | ✓ | - | - |
| | CITY_ID | Number | - | 20 | 0 | - | ✓ | - | - |
| | | | | | | | | | 1 - 4 |

# 15. SUBSTITUTION:

Object Type **TABLE** Object **SUBSTITUTION**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| SUBSTITUTION | MATCH_NO | Number | - | 20 | 0 | - | ✓ | - | - |
| | TEAM_ID | Number | - | 20 | 0 | - | ✓ | - | - |
| | PLAYER_ID | Number | - | 20 | 0 | - | ✓ | - | - |
| | PLAYER_IN_OUT | Varchar2 | 15 | - | - | - | ✓ | - | - |
| | IN_OUT_TIME | Number | - | 20 | 0 | - | ✓ | - | - |
| | | | | | | | | | 1 - 5 |

# 16. RESULT:

Object Type **TABLE** Object **RESULT**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| RESULT | RESULT_ID | Number | - | 20 | 0 | 1 | - | - | - |
| | SCORE | Varchar2 | 15 | - | - | - | ✓ | - | - |
| | RESULT | Varchar2 | 15 | - | - | - | ✓ | - | - |
| | | | | | | | | | 1 - 3 |

## 3.2 CONSTRAINTS:

## PRIMARY KEY:

1. ALTER TABLE RESULT ADD CONSTRAINT RESULT1 PRIMARY KEY(RESULT_ID)
2. ALTER TABLE CITY ADD CONSTRAINT CITY1 PRIMARY KEY(CITY_ID)
3. ALTER TABLE REREFEE ADD CONSTRAINT REFEREE1 PRIMARY KEY(REFEREE_ID)
4. ALTER TABLE COUNTRY ADD CONSTRAINT COUNTRY1 PRIMARY KEY(COUNTRY_ID)
5. ALTER TABLE GOAL ADD CONSTRAINT GOAL1 PRIMARY KEY(GOAL_ID)
6. ALTER TABLE POSITION ADD CONSTRAINT POSITION1 PRIMARY KEY(POSITION_ID)
7. ALTER TABLE MATCH_INFORMATION ADD CONSTRAINT MATCH_INFO1 PRIMARY KEY(MATCH_NO)
8. ALTER TABLE PLAYER ADD CONSTRAINT PLAYER1 PRIMARY KEY(PLAYER_ID)
9. ALTER TABLE TEAM ADD CONSTRAINT TEAM1 PRIMARY KEY(TEAM_ID)
10. ALTER TABLE VENUS ADD CONSTRAINT VENUE1 PRIMARY KEY(VENUE_ID)
11. ALTER TABLE ASSISTANT_REFEREE ADD CONSTRAINT ASSIST_REF1 PRIMARY KEY(ASSIST_REF_ID)

## FOREIGN KEY:

1. ALTER TABLE BOOKING ADD CONSTRAINT BOOKING1 FOREIGN KRY(PLAYER_ID) REFERENCES PLAYER(PLAYER_ID)

2. ALTER TABLE BOOKING ADD CONSTRAINT BOOKING2 FOREIGN KRY(TEAM_ID) REFERENCES TEAM(TEAM_ID)

3. ALTER TABLE MATCH_DETAILS ADD CONSTRAINT MATCH_DETAILS1 FOREIGN KRY(TEAM_ID) REFERENCES TEAM(TEAM_ID)

4. ALTER TABLE MATCH_DETAILS ADD CONSTRAINT MATCH_DETAILS2 FOREIGN KRY(ASSIST_REF_ID) REFERENCES ASSISTANT_REFEREE(ASSIST_REF_ID)

4. ALTER TABLE MATCH_INFORMATION ADD CONSTRAINT MATCH_INFO1 FOREIGN KRY(RESULT_ID) REFERENCES RESULT(RESULT_ID)

5. ALTER TABLE MATCH_INFORMATION ADD CONSTRAINT MATCH_INFO2 FOREIGN KRY(VENUE_ID) REFERENCES VENUE (VENUE _ID)

6.  ALTER TABLE MATCH_INFORMATION ADD CONSTRAINT MATCH_INFO3 FOREIGN KRY(REFEREE_ID) REFERENCES REFEREE(REFEREE_ID)

7. ALTER TABLE PLAYER ADD CONSTRAINT PLAYER2 FOREIGN KRY(TEAM_ID) REFERENCES TEAM(TEAM_ID)

8. ALTER TABLE POSITION ADD CONSTRAINT PLAYER3 FOREIGN KRY(POSITION_ID) REFERENCES POSITION(POSITION_ID)

9. ALTER TABLE SPONSOR ADD CONSTRAINT SPONSOR1 FOREIGN KRY(TEAM_ID) REFERENCES TEAM(TEAM_ID)

10. ALTER TABLE SUBSTITUTION ADD CONSTRAINT SUBSTITUTION1 FOREIGN KRY(TEAM_ID) REFERENCES TEAM(TEAM_ID)

11. 10. ALTER TABLE SUBSTITUTION ADD CONSTRAINT SUBSTITUTION2 FOREIGN KRY(PLAYER_ID) REFERENCES PLAYER(PLAYER_ID)

12. ALTER TABLE TEAM ADD CONSTRAINT TEAM2 FOREIGN KRY(COACH_ID) REFERENCES COACH(COACH_ID)

13. ALTER TABLE VENUE ADD CONSTRAINT VENUE2 FOREIGN KRY(CITY_ID) REFERENCES CITY(CITY_ID)

14. ALTER TABLE CITY ADD CONSTRAINT CITY2 FOREIGN KRY(COUNTRY_ID) REFERENCES COUNTRY(COUNTRY_ID)

15. ALTER TABLE GOAL ADD CONSTRAINT GOAL2 FOREIGN KRY(PLAYER_ID) REFERENCES PLAYER(PLAYER_ID)

## 3.3 Data tables:

### 1. TEAM:

| TEAM_ID | TEAM_NAME | TEAM_GROUP | MATCH_PLAYED | WON | DRAW | LOSE | GOAL_FOR | GOAL_AGAINST | GOAL_DIFFERENCE | POINT | GROUP_POSITION | COACH_ID |
|---------|-----------|------------|--------------|-----|------|------|----------|--------------|-----------------|-------|----------------|----------|
| 12001 | juventus | A | 2 | 2 | 0 | 0 | 6 | 2 | 4 | 6 | 1 | 201 |
| 12002 | Spurs | A | 2 | 1 | 0 | 1 | 4 | 3 | 1 | 3 | 2 | 202 |
| 12003 | United | A | 2 | 0 | 0 | 2 | 2 | 7 | -5 | 0 | 3 | 203 |
| 12004 | chelsea | B | 2 | 1 | 1 | 0 | 4 | 3 | 1 | 4 | 2 | 204 |
| 12005 | Liverpool | B | 2 | 0 | 0 | 2 | 3 | 6 | -3 | 0 | 3 | 205 |
| 12006 | L.city | B | 2 | 1 | 1 | 0 | 2 | 0 | 2 | 4 | 1 | 206 |
| 12007 | M.city | C | 2 | 0 | 1 | 1 | 0 | 1 | -1 | 1 | 3 | 207 |
| 12008 | Arsenal | C | 2 | 1 | 1 | 0 | 1 | 0 | 1 | 4 | 1 | 208 |
| 12009 | I.milan | C | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 2 | 209 |
| 12010 | R.mardid | D | 2 | 2 | 0 | 0 | 4 | 1 | 3 | 6 | 1 | 210 |
| 12011 | Barcelona | D | 2 | 1 | 0 | 1 | 3 | 2 | 1 | 3 | 2 | 211 |
| 12012 | A.madrid | D | 2 | 0 | 0 | 2 | 0 | 4 | -4 | 0 | 3 | 212 |

## 2. VENUE:

| VENUE_ID | VENUE_NAME | CAPACITY | CITY_ID |
|----------|------------|----------|---------|
| 20001 | villamarin | 12500 | 1 |
| 20002 | mestalla | 11000 | 2 |
| 20003 | san siro | 13800 | 3 |
| 20004 | allianz | 13800 | 4 |
| 20005 | anfield | 12200 | 5 |
| 20006 | etihad | 15000 | 6 |
| 20007 | old trafford | 15250 | 6 |

## 3. POSITION:

| POSITION_ID | POSITION_DESC |
|-------------|---------------|
| 1 | Goalkeeper |
| 2 | Defender |
| 3 | Midfielder |
| 4 | Forward |

## 4. CITY:

| CITY_ID | COUNTRY_ID | CITY_NAME |
|---|---|---|
| 1 | 1 | real batis |
| 2 | 1 | valencia |
| 3 | 2 | milan |
| 4 | 2 | turin |
| 5 | 3 | liverpool |
| 6 | 3 | manchester |

**5.ASSISTANT_REFEREE:**

| ASSIST_REF_ID | ASSIST_REF_NAME |
|---|---|
| 1601 | Tomas Mokrusch |
| 1602 | Martin Wilczek |
| 1603 | Simon Beck |
| 1604 | Stephen Child |
| 1605 | Jake Collin |
| 1606 | Mark Borsch |
| 1607 | Mark Borsch |
| 1608 | Vencel Toth |

**6.COACH:**

| COACH_ID | COACH_NAME | NATIONALITY |
|----------|------------|-------------|
| 201 | Zidane | France |
| 202 | Wenger | France |
| 203 | Pep gurdiola | Spain |
| 204 | Jose | Portugal |
| 205 | Valvarde | Spain |
| 206 | Henry | France |
| 207 | Dunga | Brazil |
| 208 | Allegri | Italy |
| 209 | Marco Sliva | Portugal |
| 210 | Unai Emery | Spain |
| 211 | Jemmy dey | England |
| 212 | Conte | Italy |

## 7. REFEREE:

| REFEREE_ID | REFEREE_NAME | NATIONALITY |
|------------|--------------|-------------|
| 801 | wingstone | England |
| 802 | Mike dean | England |
| 803 | Ken Aston | England |
| 804 | Oliver | England |
| 805 | Anderson | England |
| 806 | Michel | England |

## 8. PLAYER:

| PLAYER_ID | PLAYER_NAME | DOB | JERSEY_NO | HEIGHT | TEAM_ID | POSITION_ID |
|---|---|---|---|---|---|---|
| 1201 | Etrit Berisha | 10-MAR-89 | 1 | 5.8 | 12001 | 1 |
| 1202 | andi lila | 12-FEB-90 | 2 | 5.9 | 12001 | 2 |
| 1203 | Emri | 15-FEB-90 | 23 | 5.7 | 12001 | 2 |
| 1204 | hulk | 19-AUG-90 | 5 | 5.6 | 12001 | 3 |
| 1205 | loric | 19-JAN-91 | 5 | 5.6 | 12001 | 4 |
| 1206 | ansi | 11-JAN-91 | 10 | 5.6 | 12001 | 4 |
| 1207 | lenjani | 11-JAN-91 | 1 | 5.6 | 12002 | 1 |
| 1208 | jack | 11-JUN-91 | 1 | 6 | 12002 | 2 |
| 1209 | roni | 14-JUN-92 | 10 | 6 | 12002 | 4 |
| 1210 | vasa | 14-JUL-91 | 11 | 6.1 | 12002 | 4 |
| 1211 | john | 20-JUL-90 | 11 | 5.10 | 12002 | 3 |
| 1212 | steve | 20-OCT-95 | 3 | 5.11 | 12002 | 2 |
| 1213 | ali | 23-MAY-93 | 1 | 5.9 | 12003 | 1 |
| 1214 | angle | 05-MAY-92 | 2 | 5.9 | 12003 | 2 |
| 1215 | clerk | 01-APR-92 | 5 | 5.8 | 12003 | 2 |
| 1216 | levi | 01-DEC-90 | 7 | 5.8 | 12003 | 3 |
| 1217 | roy | 16-DEC-93 | 10 | 5.7 | 12003 | 4 |
| 1218 | Andrew | 16-DEC-94 | 0 | 5.7 | 12003 | 4 |
| 1219 | Symonds | 16-FEB-94 | 1 | 5.7 | 12004 | 1 |
| 1220 | Clark | 16-FEB-95 | 2 | 5.8 | 12004 | 2 |
| 1221 | gilly | 28-MAR-93 | 3 | 5.8 | 12004 | 2 |
| 1222 | Heyden | 12-MAR-90 | 4 | 5.8 | 12004 | 3 |
| 1223 | Mbappe | 22-DEC-98 | 7 | 5.6 | 12004 | 4 |
| 1224 | Ponting | 12-MAR-91 | 6 | 5.8 | 12004 | 4 |
| 1225 | Sachin | 12-MAR-91 | 1 | 5.8 | 12005 | 1 |
| 1226 | Ki | 14-MAR-91 | 2 | 6.4 | 12005 | 2 |
| 1227 | Barbara | 25-DEC-00 | 3 | 6.4 | 12005 | 2 |
| 1228 | alonso | 25-DEC-85 | 4 | 6.4 | 12005 | 3 |
| 1229 | Smith | 21-DEC-86 | 5 | 5.5 | 12005 | 4 |
| 1230 | haley | 18-NOV-92 | 10 | 5.8 | 12005 | 4 |
| 1231 | patton | 17-NOV-95 | 1 | 6 | 12006 | 1 |
| 1232 | railey | 02-AUG-90 | 2 | 5.11 | 12006 | 2 |
| 1233 | rylie | 09-AUG-93 | 2 | 5.11 | 12006 | 2 |
| 1234 | isiah | 27-JUL-91 | 5 | 5.1 | 12006 | 3 |
| 1235 | elsa | 25-JUL-90 | 7 | 5.7 | 12006 | 4 |
| 1236 | breadon | 27-JUN-90 | 10 | 5.9 | 12006 | 4 |

| 1237 | darien | 01-FEB-90 | 1 | 5.9 | 12007 | 1 |
| 1238 | maccaty | 07-MAR-94 | 2 | 5.10 | 12007 | 2 |
| 1239 | boyle | 08-MAR-92 | 3 | 5.10 | 12007 | 2 |
| 1240 | shaffer | 15-AUG-92 | 4 | 5.8 | 12007 | 3 |
| 1241 | collin | 10-AUG-90 | 7 | 5.7 | 12007 | 4 |
| 1242 | harper | 09-MAY-90 | 9 | 5.9 | 12007 | 4 |
| 1243 | ronnie | 07-MAY-91 | 1 | 5.9 | 12008 | 1 |
| 1244 | maynard | 12-JAN-96 | 2 | 5.8 | 12008 | 2 |
| 1245 | murillo | 29-JAN-95 | 3 | 5.7 | 12008 | 2 |
| 1246 | paulina | 29-OCT-92 | 5 | 5.9 | 12008 | 3 |
| 1247 | kelley | 14-OCT-90 | 7 | 6 | 12008 | 4 |
| 1248 | kelley | 08-JUL-90 | 10 | 5.10 | 12008 | 4 |
| 1249 | pugh | 05-MAR-95 | 1 | 5.10 | 12009 | 1 |
| 1250 | alonzo | 09-MAR-94 | 2 | 5.11 | 12009 | 2 |
| 1251 | spencer | 14-MAY-90 | 3 | 5.11 | 12009 | 2 |
| 1252 | mathews | 10-NOV-91 | 11 | 5.8 | 12009 | 4 |
| 1253 | wade | 12-AUG-91 | 6 | 5.8 | 12009 | 3 |
| 1254 | pope | 01-NOV-92 | 10 | 5.9 | 12009 | 4 |
| 1255 | smith | 15-SEP-92 | 1 | 5.9 | 12010 | 1 |
| 1256 | nevaeh | 23-JAN-95 | 2 | 5.10 | 12010 | 2 |
| 1257 | lena | 25-MAR-95 | 3 | 5.10 | 12010 | 2 |
| 1258 | white | 07-APR-93 | 9 | 5.11 | 12010 | 3 |
| 1259 | curry | 05-FEB-93 | 10 | 5.8 | 12010 | 4 |
| 1260 | harrell | 08-MAR-90 | 12 | 5.9 | 12010 | 4 |
| 1261 | matteo | 17-JUN-90 | 1 | 6.1 | 12011 | 1 |
| 1262 | deleon | 26-JUL-96 | 2 | 5.10 | 12011 | 2 |
| 1263 | alma | 02-JUL-96 | 3 | 5.11 | 12011 | 2 |
| 1264 | beltran | 07-JAN-92 | 6 | 5.8 | 12011 | 3 |
| 1265 | davis | 06-MAY-95 | 10 | 5.8 | 12011 | 4 |
| 1266 | david | 06-SEP-95 | 8 | 5.9 | 12011 | 4 |
| 1267 | cole | 26-SEP-91 | 1 | 5.9 | 12012 | 1 |
| 1268 | davidson | 06-SEP-93 | 2 | 5.10 | 12012 | 2 |
| 1269 | phelps | 18-OCT-93 | 3 | 5.10 | 12012 | 2 |
| 1270 | candence | 01-OCT-95 | 8 | 5.11 | 12012 | 3 |
| 1271 | franklin | 07-DEC-96 | 10 | 6 | 12012 | 4 |
| 1272 | ferguson | 12-NOV-95 | 13 | 5.9 | 12012 | 4 |

## 9. MATCH_INFORMATION:

| MATCH_NO | PLAY_STAGE | PLAY_DATE | PLAY_TIME | WEATHER | RESULT_ID | AUDIENCE | VANUE_ID | REFEREE_ID |
|---|---|---|---|---|---|---|---|---|
| 1 | G | 01-JAN-18 | 12:00 | sunny | 101 | 9563 | 20001 | 801 |
| 2 | G | 02-JAN-18 | 12:00 | sunny | 102 | 10112 | 20002 | 802 |
| 3 | G | 03-JAN-18 | 10:00 | foggy | 103 | 9852 | 20003 | 803 |
| 4 | G | 04-JAN-18 | 09:00 | sunny | 104 | 10852 | 20004 | 804 |
| 5 | G | 05-JAN-18 | 11:00 | cold | 105 | 9762 | 20005 | 805 |
| 6 | G | 06-JAN-18 | 17:00 | foggy | 106 | 9102 | 20006 | 806 |
| 7 | G | 07-JAN-18 | 19:00 | clear | 107 | 9537 | 20007 | 802 |
| 8 | G | 08-JAN-18 | 20:00 | clear | 108 | 9934 | 20002 | 801 |
| 9 | G | 09-JAN-18 | 12:30 | sunny | 109 | 10234 | 20005 | 806 |
| 10 | G | 10-JAN-18 | 21.00 | clear | 110 | 9801 | 20007 | 804 |
| 11 | G | 11-JAN-18 | 10.00 | foggy | 111 | 9705 | 20004 | 801 |
| 12 | G | 12-JAN-18 | 09.00 | foggy | 112 | 9326 | 20005 | 806 |
| 13 | S | 14-JAN-18 | 20.00 | clear | 113 | 9987 | 20006 | 803 |
| 14 | S | 16-JAN-18 | 20.00 | clear | 114 | 10113 | 20007 | 805 |
| 15 | F | 20-JAN-18 | 22.00 | clear | 115 | 13256 | 20006 | 801 |

## 10. SPONSOR:

| TEAM_ID | SPONSOR_NAME |
|---|---|
| 12011 | Qater |
| 12011 | Rakuten |
| 12012 | Plus500 |
| 12001 | jeep |
| 12002 | cheverlet |
| 12003 | AIA |
| 12004 | Samsung |
| 12004 | Yokahama |
| 12005 | Standard |
| 12006 | Etihad |
| 12007 | Etihad |
| 12008 | Fly Emirates |
| 12009 | Puma |
| 12010 | Adidas |
| 12010 | bwin |

## 11. COUNTRY:

| COUNTRY_ID | COUNTRY_NAME |
|---|---|
| 1 | spain |
| 2 | italy |
| 3 | england |

## 12. MATCH_DETAILS:

| MATCH_NO | PLAY_STAGE | TEAM_ID | WIN_LOSE | GOAL_BY_TEAM | PENALTY_SCORED | ASSIST_REF_ID | PASSES | OFFSIDES | FAUL |
|---|---|---|---|---|---|---|---|---|---|
| 1 | G | 12001 | W | 3 | 0 | 1601 | 454 | 2 | 6 |
| 1 | G | 12002 | L | 2 | 0 | 1601 | 396 | 3 | 7 |
| 2 | G | 12003 | L | 0 | 0 | 1602 | 445 | 0 | 5 |
| 2 | G | 12001 | W | 3 | 0 | 1602 | 423 | 1 | 8 |
| 3 | G | 12002 | L | 0 | 0 | 1603 | 342 | 3 | 5 |
| 3 | G | 12003 | W | 4 | 0 | 1603 | 412 | 2 | 5 |
| 4 | G | 12004 | W | 4 | 0 | 1604 | 389 | 1 | 6 |
| 4 | G | 12005 | L | 3 | 0 | 1604 | 373 | 0 | 8 |
| 5 | G | 12006 | D | 0 | 0 | 1605 | 333 | 4 | 8 |
| 5 | G | 12004 | D | 0 | 0 | 1605 | 433 | 2 | 8 |
| 6 | G | 12005 | L | 0 | 0 | 1606 | 393 | 1 | 5 |
| 6 | G | 12006 | W | 2 | 0 | 1606 | 383 | 2 | 7 |
| 7 | G | 12009 | D | 0 | 0 | 1607 | 417 | 1 | 9 |
| 7 | G | 12007 | D | 0 | 0 | 1607 | 413 | 2 | 3 |
| 8 | G | 12007 | L | 0 | 0 | 1608 | 417 | 0 | 6 |
| 8 | G | 12008 | W | 1 | 0 | 1608 | 317 | 2 | 6 |
| 9 | G | 12008 | D | 0 | 0 | 1601 | 401 | 1 | 3 |
| 9 | G | 12009 | D | 0 | 0 | 1601 | 357 | 3 | 9 |
| 10 | G | 12010 | W | 2 | 0 | 1602 | 405 | 2 | 3 |
| 10 | G | 12011 | L | 1 | 0 | 1602 | 415 | 0 | 5 |
| 11 | G | 12010 | W | 2 | 0 | 1603 | 315 | 1 | 5 |
| 11 | G | 12012 | L | 0 | 0 | 1603 | 367 | 3 | 7 |
| 12 | G | 12011 | W | 2 | 0 | 1604 | 377 | 1 | 7 |
| 12 | G | 12012 | L | 0 | 0 | 1604 | 414 | 0 | 5 |
| 13 | S | 12010 | W | 2 | 0 | 1605 | 424 | 2 | 7 |
| 13 | S | 12006 | L | 1 | 0 | 1605 | 431 | 1 | 8 |
| 14 | S | 12008 | W | 1 | 3 | 1606 | 411 | 0 | 5 |
| 14 | S | 12001 | L | 1 | 2 | 1606 | 374 | 0 | 3 |
| 15 | F | 12010 | L | 1 | 0 | 1607 | 384 | 1 | 3 |
| 15 | F | 12008 | W | 3 | 0 | 1607 | 364 | 1 | 6 |

## 13. GOAL

| GOAL_ID | MATCH_NO | PLAYER_ID | GOAL_TIME | GOAL_TYPE |
| --- | --- | --- | --- | --- |
| 1 | 1 | 1205 | 2 | N |
| 2 | 1 | 1204 | 13 | N |
| 3 | 1 | 1204 | 60 | N |
| 5 | 1 | 1209 | 90 | N |
| 6 | 2 | 1206 | 5 | N |
| 7 | 2 | 1206 | 13 | N |
| 8 | 2 | 1206 | 18 | N |
| 9 | 3 | 1217 | 21 | N |
| 10 | 3 | 1217 | 33 | N |
| 11 | 3 | 1214 | 60 | N |
| 12 | 3 | 1216 | 83 | N |
| 13 | 4 | 1219 | 2 | N |
| 14 | 4 | 1219 | 13 | N |
| 15 | 4 | 1219 | 60 | N |
| 16 | 4 | 1224 | 63 | N |
| 17 | 4 | 1229 | 5 | N |
| 18 | 4 | 1230 | 33 | N |
| 19 | 4 | 1230 | 66 | N |
| 20 | 6 | 1233 | 14 | N |
| 21 | 6 | 1236 | 90 | N |
| 22 | 8 | 1248 | 89 | N |
| 23 | 10 | 1258 | 33 | N |
| 24 | 10 | 1258 | 64 | N |

| 24 | 10 | 1258 | 64 | N |
|----|----|------|----|----|
| 25 | 10 | 1264 | 80 | N |
| 26 | 11 | 1257 | 60 | N |
| 27 | 10 | 1260 | 73 | N |
| 28 | 12 | 1264 | 34 | N |
| 29 | 12 | 1266 | 80 | N |
| 30 | 13 | 1260 | 5 | N |
| 31 | 13 | 1260 | 13 | N |
| 32 | 13 | 1636 | 38 | N |
| 33 | 14 | 1648 | 33 | N |
| 34 | 14 | 1206 | 35 | N |
| 35 | 14 | 1606 | 0 | P |
| 36 | 14 | 1205 | 0 | P |
| 37 | 14 | 1203 | 0 | P |
| 38 | 14 | 1248 | 0 | P |
| 39 | 14 | 1247 | 0 | P |
| 41 | 15 | 1260 | 1 | N |
| 42 | 15 | 1248 | 23 | N |
| 43 | 15 | 1247 | 33 | N |
| 44 | 15 | 1247 | 45 | N |
| 45 | 15 | 1244 | 90 | N |

## 14. SUBSTITUTE:

| MATCH_NO | TEAM_ID | PLAYER_ID | PLAYER_IN_OUT | IN_OUT_TIME |
|---|---|---|---|---|
| 1 | 12001 | 1206 | I | 40 |
| 1 | 12001 | 1203 | O | 40 |
| 1 | 12002 | 1208 | I | 46 |
| 1 | 12002 | 1210 | O | 46 |
| 2 | 12003 | 1218 | I | 53 |
| 2 | 12003 | 1217 | O | 53 |
| 4 | 12004 | 1220 | I | 59 |
| 4 | 12004 | 1224 | O | 59 |
| 5 | 12005 | 1229 | I | 51 |
| 5 | 12005 | 1230 | O | 51 |
| 5 | 12004 | 1224 | O | 51 |
| 5 | 12004 | 1223 | O | 51 |
| 8 | 12008 | 1248 | I | 51 |
| 8 | 12008 | 1246 | O | 51 |
| 10 | 12010 | 1259 | I | 65 |
| 10 | 12011 | 1266 | I | 68 |
| 10 | 12011 | 1263 | O | 68 |
| 10 | 12010 | 1260 | O | 65 |
| 11 | 12012 | 1272 | O | 62 |
| 11 | 12012 | 1270 | I | 62 |
| 13 | 12010 | 1259 | O | 61 |
| 13 | 12006 | 1235 | O | 69 |
| 13 | 12010 | 1259 | O | 61 |
| 13 | 12006 | 1236 | I | 69 |
| 13 | 12006 | 1235 | O | 69 |
| 13 | 12010 | 1260 | I | 61 |
| 15 | 12008 | 1247 | O | 71 |
| 15 | 12010 | 1256 | O | 72 |
| 15 | 12010 | 1255 | I | 72 |
| 15 | 12008 | 1248 | I | 71 |

## 15. RESULT:

| RESULT_ID | SCORE | RESULT |
|-----------|-------|--------|
| 101 | 3-2 | win |
| 102 | 3-0 | win |
| 103 | 4-0 | win |
| 104 | 4-3 | win |
| 105 | 0-0 | draw |
| 106 | 2-0 | win |
| 107 | 0-0 | draw |
| 108 | 1-0 | win |
| 109 | 0-0 | draw |
| 110 | 2-1 | win |
| 111 | 2-0 | win |
| 112 | 2-0 | win |

## 16. Booking:

| MATCH_NO | TEAM_ID | PLAYER_ID | BOOKING_TIME | RED_YELLOW_CARD |
|----------|---------|-----------|--------------|-----------------|
| 1 | 12001 | 1206 | 32 | yellow |
| 4 | 12005 | 1230 | 41 | Red |
| 4 | 12012 | 1268 | 44 | Yellow |
| 15 | 12010 | 1260 | 13 | Yellow |

**5.Query Question:**

1. select players and their position for each team.

2. Find player name who has highest score.

3. Find tallest player of Juventus and all other of his same height.

4.  create a view to show player name and score. Order by score asc.

5.  Find total goals and penalties