

Football club Database Management System

Database Overview:

Club football is a tremendously popular sport in the world, drawing in some of the biggest crowds and largest purses of any sport. The top 20 football clubs have a total revenue of €9.2 billion in 2021/22 according to Deloitte Football Money League. The top clubs have a matchday revenue of €1.4 billion in 2021/22 according to the same. According to a number of online publications, certain players make up to €200 million annually.

At the outset this football database design, where players, coaches, and staff form the core. Owners and sponsors provide support, while the database handles finances, match records, and club operations seamlessly. Each match, with its goals, becomes a dynamic entry in the system, capturing the essence of the game. This user-friendly database not only tracks player stats and financial details but also reflects the global spirit of football, connecting data across clubs.

Therefore, in as much as it is economically feasible, this database can be utilised to boost a club's revenue while simultaneously strengthening the team.

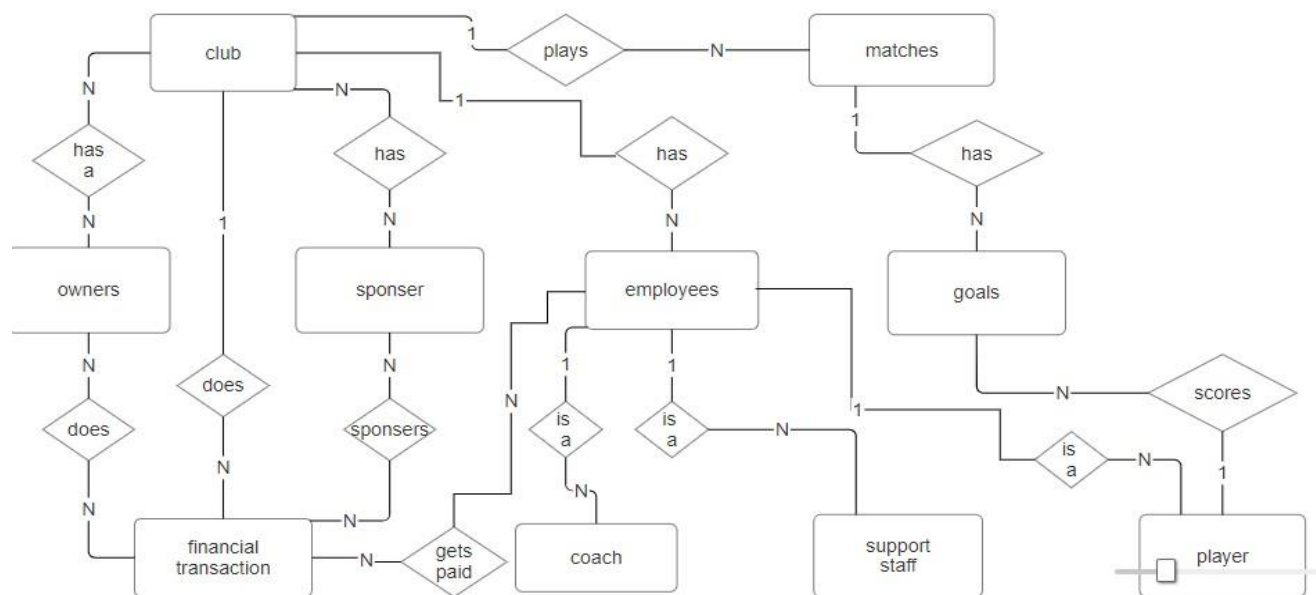
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Entities:

1. Club
2. Player
3. Coach
4. Country
5. employees
6. owners
7. finances
8. sponsors
9. matches
10. goals

ER Diagram:



<https://drive.google.com/drive/folders/1s1JZZLT8kXnLe6HE0dryPHToM0-jCUDb>

ER Model Assumptions:

1. A sponsor is a business or businessman providing funds to a team to help them buy essential assets such as team kits, equipment, training facilities and even transport to and from matches in return for the marketing of their company.
2. Support staff of a football club involves fitness staff, medical staff etc.
3. Budget and rating of a club and player can be taken from FIFA official website.
4. A single match takes place on any particular date.

Tables:

1.Club

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Club_id	int	Primary key, Not Null
Club_name	varchar	Not Null
budget	int	Not Null
rating	int	Not Null

2.Owners

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
owner_id	int	Primary key, Not Null
owner_name	varchar	Not Null

3.Club_owner

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Club_id	int	Foreign key, Not Null

Owner_id	int	Foreign key, Not Null
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4.Sponsor

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Sponsor_id	int	Primary key, Not Null
Sponsor_name	varchar	Not Null

5.Club_Sponsor

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Club_id	int	Foreign key, Not Null
Sponsor_id	int	Foreign key, Not Null

6.Employees

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Employee_id	int	Primary key, Not Null
Club_id	int	Foreign key, Not Null
Employee_name	varchar	Not Null

7.Matches

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Match_date	date	Primary key, Not Null
Club_id	int	Foreign key, Not Null
Alterrnate_team	varchar	Not Null
Won/Lost	varchar	Not Null

8.Financial_transaction

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Transaction_id	int	Primary key, Not Null
Club_id	int	Foreign key, Not Null
Description	varchar	Not Null

9.Owner_transaction

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Owner_id	int	Foreign key, Not Null
Transaction_id	int	Foreign key, Not Null

10.Sponsor_transaction

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
-------------------	-----------------	---------------------------------------

Sponsor_id	int	Foreign key, Not Null
Transaction_id	int	Foreign key, Not Null

11.Employee_transaction

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Employee_id	int	Foreign key, Not Null
Transaction_id	int	Foreign key, Not Null

12.Coach

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Coach_id	int	Primary key, Not Null
Employee_id	int	Foreign key, Not Null
Coach_name	varchar	Not Null

13.Support_staff

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Staff_id	date	Primary key, Not Null
Employee_id	int	Foreign key, Not Null
Staff_name	varchar	Not Null
role	varchar	Not Null

14.Players

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Player_id	date	Primary key, Not Null
Employee_id	int	Foreign key, Not Null
Player_name	varchar	Not Null
rating	int	Not Null

15.Goals

<u>Attributes</u>	<u>datatype</u>	<u>Constraint and characteristics</u>
Match_date	int	Primary key, foreign key, Not Null
Number_of_goals	int	Not Null
Goal_scored_by_player_id	int	Foreign key, Not Null

Functional Dependencies and Primary Keys:

1.Club:

Club_id -> {Club_name, budget, rating}

Since all fields depend on the Club_id, (Club_id) + -> R.

Hence, Club_id is a primary key.

2.Owners:

Owner_id -> {Owner_name}

Since all fields depend on the Owner_id, (Owner_id) + -> R.

Hence, Owner_id is a primary key.

3.Club_Owner

4.Sponsor

Sponsor_id -> {Sponsor_name}

Since all fields depend on the Sponsor_id, (Sponsor_id) + -> R.

Hence, Sponsor_id is a primary key.

5.Club_sponsor

6.Employees

Employee_id -> {Employee_name, Club_id}

Since all fields depend on the Employee_id, (Employee_id) + -> R.

Hence, Employee_id is a primary key.

7.Matches

Match_date -> {Club_id, alternate_team, won/lost}

Since all fields depend on the Match_date, (Match_date) + -> R.

Hence, Match_date is a primary key.

8.Finaancial_transaction

transaction_id -> {description, Club_id}

Since all fields depend on the transaction_id, (transaction_id) + -> R.

Hence, transaction_id is a primary key.

9.Owner_transaction

10.Sponsor_transaction

11.Employee_transaction

12.Coach

coach_id -> {coach_name, Employee_id}

Since all fields depend on the coach_id, (coach_id) + -> R.

Hence, coach_id is a primary key.

13.Support_staff

staff_id -> {staff_name, Employee_id, role}

Since all fields depend on the staff_id, (staff_id) + -> R.

Hence, staff_id is a primary key.

14.Players

player_id -> {player_name, Employee_id, rating}

Since all fields depend on the player_id, (player_id) + -> R.

Hence, player_id is a primary key.

15.Goals

match_date -> {number_of_goals, scored_by_player_id}

Since all fields depend on the match_date, (match_date) + -> R.

Hence, match_date is a primary key.

Normalization:

1) Club

Primary key: Club_id

All attributes depend on the Club_id, hence the table is 2NF.

All attributes depend directly on Club_id, hence the table is in 3NF.

All determinants (Club_id) are candidate keys, hence the table is in BCNF.

2) Owners

Primary key: owner_id

All attributes depend on the owner_id, hence the table is 2NF.

All attributes depend directly on owner_id, hence the table is in 3NF.

All determinants (owner_id) are candidate keys, hence the table is in BCNF.

3) Sponsor

Primary key: sponsor_id

All attributes depend on the sponsor_id, hence the table is 2NF.

All attributes depend directly on sponsor_id, hence the table is in 3NF.

All determinants (sponsor_id) are candidate keys, hence the table is in BCNF.

4) Employees

Primary key: Employee_id

All attributes depend on the Employee_id, hence the table is 2NF.

All attributes depend directly on Employee_id, hence the table is in 3NF.

All determinants (Employee_id) are candidate keys, hence the table is in BCNF.

5) Matches

Primary key: Match_date

All attributes depend on the Match_date, hence the table is 2NF.

All attributes depend directly on Match_date, hence the table is in 3NF.

All determinants (Match_date) are candidate keys, hence the table is in BCNF.

6) Financial_transaction

Primary key: transaction_id

All attributes depend on the transaction_id, hence the table is 2NF.

All attributes depend directly on transaction_id, hence the table is in 3NF.

All determinants (transaction_id) are candidate keys, hence the table is in BCNF.

7) Coach

Primary key: coach_id

All attributes depend on the coach_id, hence the table is 2NF.

All attributes depend directly on coach_id, hence the table is in 3NF.

All determinants (coach_id) are candidate keys, hence the table is in BCNF.

8) Support_staff

Primary key: staff_id

All attributes depend on the staff_id, hence the table is 2NF.

All attributes depend directly on staff_id, hence the table is in 3NF.
 All determinants (staff_id) are candidate keys, hence the table is in BCNF.

9) Players

Primary key: player_id

All attributes depend on the player_id, hence the table is 2NF.

All attributes depend directly on player_id, hence the table is in 3NF.

All determinants (player_id) are candidate keys, hence the table is in BCNF.

10) Goals

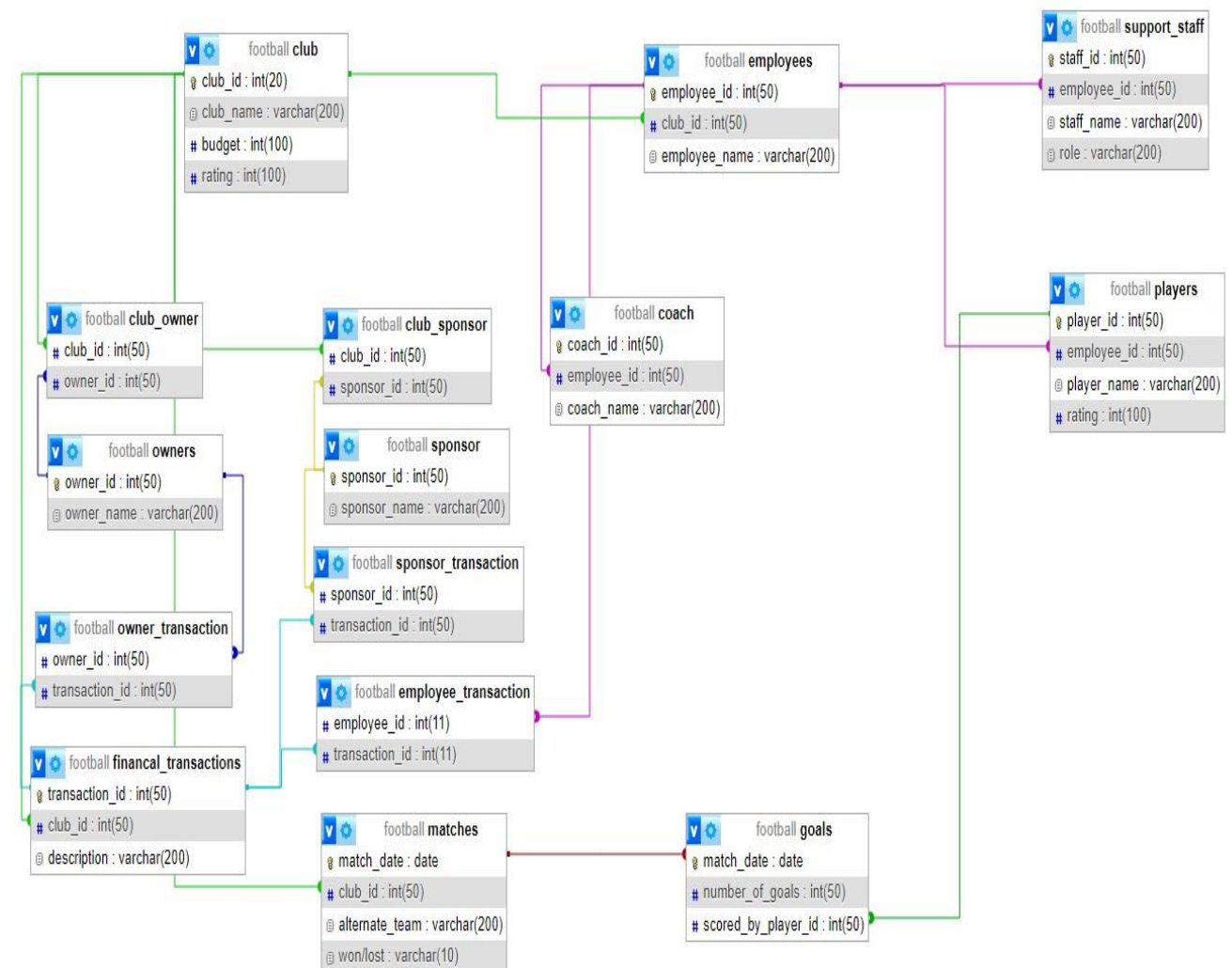
Primary key: Match_date

All attributes depend on the Match_date, hence the table is 2NF.

All attributes depend directly on Match_date, hence the table is in 3NF.

All determinants (Match_date) are candidate keys, hence the table is in BCNF.

Relational Schema with Normalized tables:



<https://drive.google.com/drive/folders/1s1JZZLT8kXnLe6HE0dryPHToM0-jCUDb>

SQL Code:

CREATION OF TABLES AND INSERTION OF VALUES:-

```
-- Table structure for table `club`  
--
```

```
CREATE TABLE `club` (  
  `club_id` int(20) NOT NULL,  
  `club_name` varchar(200) NOT NULL,  
  `budget_in_million_dollars` int(100) NOT NULL,  
  `rating` int(100) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
--  
-- Dumping data for table `club`  
--
```

```
INSERT INTO `club` (`club_id`, `club_name`, `budget_in_million_dollars`, `rating`) VALUES  
(1, 'Manchester_City', 815, 85),  
(2, 'Bayern_Munich', 739, 84),  
(3, 'Liverpool', 793, 83),  
(4, 'PSG', 739, 83),  
(5, 'Chelsea', 642, 80),  
(6, 'Real_Madrid', 807, 85),  
(7, 'Inter_Milan', 348, 82),  
(8, 'Juventus', 453, 80),  
(9, 'Manchester_United', 779, 82),  
(10, 'Ajax', 172, 75),  
(11, 'Tottenham', 591, 81),  
(12, 'RB_Leipzig', 100, 80),  
(13, '?FC_Porto', 93, 78),  
(14, 'RB_Salzburg', 47, 73),  
(15, 'Borussia_Dortmund', 403, 81),  
(16, 'Atl?tico_Madrid', 445, 83),  
(17, 'Arsenal', 490, 82),  
(18, 'Villareal_FC', 14, 79),  
(19, '?Brighton_FC', 20, 77),  
(20, 'AC_Milan', 299, 80);
```

```
-- -----  
--  
-- Table structure for table `club_owner`  
--
```

```
CREATE TABLE `club_owner` (  
  `club_id` int(50) NOT NULL,
```



```
`owner_id` int(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
--
-- Dumping data for table `club_owner`
--
```

```
INSERT INTO `club_owner` (`club_id`, `owner_id`) VALUES
(1, 1),
(2, 2),
(3, 3),
(4, 4),
(5, 17),
(6, 18),
(7, 19),
(8, 20),
(9, 13),
(10, 14),
(11, 15),
(12, 16),
(13, 5),
(14, 6),
(15, 7),
(16, 8),
(17, 9),
(18, 10),
(19, 11),
(20, 12);
```

```
-- -----
```

```
--
-- Table structure for table `club_sponsor`
--
```

```
CREATE TABLE `club_sponsor` (
  `club_id` int(50) NOT NULL,
  `sponsor_id` int(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
--
-- Dumping data for table `club_sponsor`
--
```

```
INSERT INTO `club_sponsor` (`club_id`, `sponsor_id`) VALUES
(1, 1),
(2, 2),
(3, 3),
(4, 4),
(5, 17),
(6, 18),
```

```
(7, 19),
(8, 20),
(9, 13),
(10, 14),
(11, 15),
(12, 16),
(13, 5),
(14, 6),
(15, 7),
(16, 8),
(17, 9),
(18, 10),
(19, 11),
(20, 12);
```

```
-----
```

```
--
-- Table structure for table `coach`
--
```

```
CREATE TABLE `coach` (
  `coach_id` int(50) NOT NULL,
  `employee_id` int(50) NOT NULL,
  `coach_name` varchar(200) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
--
-- Dumping data for table `coach`
--
```

```
INSERT INTO `coach` (`coach_id`, `employee_id`, `coach_name`) VALUES
(1, 5, 'Pep_Guardiola'),
(2, 6, 'Thomas_Tuchel'),
(3, 7, 'J?rgen_Klopp'),
(4, 8, 'Luis_Enrique'),
(5, 9, 'Mauricio_Pochettino'),
(6, 10, 'Carlo_Ancelotti'),
(7, 11, 'Simone_Inzaghi'),
(8, 12, 'Massimiliano_Allegri'),
(9, 13, 'Erik_ten_Hag'),
(10, 14, 'John_vant_Schip'),
(11, 15, 'Ange_Postecoglou'),
(12, 16, 'Marco_Rose'),
(13, 17, 'S?rgio_Concei??o'),
(14, 18, 'Gerhard_Struber'),
(15, 19, 'Edin_Terzi?'),
(16, 20, 'Diego_Simeone'),
(17, 21, 'Mikel_Arteta'),
(18, 22, 'Marcelino'),
(19, 23, 'Roberto_De_Zerbi'),
```

```
(20, 24, 'Stefano_Pioli');
```

```
-- -----
```

```
--
```

```
-- Table structure for table `employees`
```

```
--
```

```
CREATE TABLE `employees` (  
  `employee_id` int(50) NOT NULL,  
  `club_id` int(50) NOT NULL,  
  `employee_name` varchar(200) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
--
```

```
-- Dumping data for table `employees`
```

```
--
```

```
INSERT INTO `employees` (`employee_id`, `club_id`, `employee_name`) VALUES  
(1, 20, 'John'),  
(2, 19, 'jack'),  
(3, 18, 'joey'),  
(4, 17, 'tom'),  
(5, 1, 'Pep_Guardiola'),  
(6, 2, 'Thomas_Tuchel'),  
(7, 3, 'J?rgen_Klopp'),  
(8, 4, 'Luis_Enrique'),  
(9, 5, 'Mauricio_Pochettino'),  
(10, 6, 'Carlo_Ancelotti'),  
(11, 7, 'Simone_Inzaghi'),  
(12, 8, 'Massimiliano_Allegri'),  
(13, 9, 'Erik_ten_Hag'),  
(14, 10, 'John_vant_Schip'),  
(15, 11, 'Ange_Postecoglou'),  
(16, 12, 'Marco_Rose'),  
(17, 13, 'S?rgio_Concei??o'),  
(18, 14, 'Gerhard_Struber'),  
(19, 15, 'Edin_Terzi?'),  
(20, 16, 'Diego_Simeone'),  
(21, 17, 'Mikel_Arteta'),  
(22, 18, 'Marcelino'),  
(23, 19, 'Roberto_De_Zerbi'),  
(24, 20, 'Stefano_Pioli'),  
(25, 16, 'mike'),  
(26, 15, 'mend'),  
(27, 14, 'mule'),  
(28, 13, 'jake'),  
(29, 12, 'son'),  
(30, 11, 'lon'),  
(31, 10, 'ton'),  
(32, 9, 'henry'),
```

```
(33, 8, 'harry'),
(34, 7, 'potter'),
(35, 6, 'sam'),
(36, 5, 'samwise'),
(37, 4, 'dobby'),
(38, 3, 'ron'),
(39, 2, 'sean'),
(40, 1, 'jeff'),
(41, 1, 'erling_haaland'),
(42, 2, 'Thomas_M?ller'),
(43, 3, 'mohamed_salah'),
(44, 4, 'kylian_mbappe'),
(45, 5, 'Raheem_Sterling'),
(46, 6, 'Jude_Bellingham'),
(47, 7, 'Lautaro_Mart?nez'),
(48, 8, 'Paul_Pogba'),
(49, 9, 'Marcus_Rashford'),
(50, 10, 'Carlos_Forbs'),
(51, 11, 'Cristian_Romero'),
(52, 12, 'timo_werner'),
(53, 13, 'Pepe'),
(54, 14, 'Fernando'),
(55, 15, 'Karim_Adeyemi'),
(56, 16, '?lvaro_Morata'),
(57, 17, 'Kai_Havertz'),
(58, 18, 'Eric_Bailly'),
(59, 19, 'Jo?o_Pedro'),
(60, 20, 'Christian_Pulisic');
```

```
-- -----
```

```
--
-- Table structure for table `employee_transaction`
--
```

```
CREATE TABLE `employee_transaction` (
  `employee_id` int(11) NOT NULL,
  `transaction_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
-- -----
```

```
--
-- Table structure for table `financtal_transactions`
--
```

```
CREATE TABLE `financtal_transactions` (
  `transaction_id` int(50) NOT NULL,
  `club_id` int(50) NOT NULL,
  `description` varchar(200) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

--
-- Table structure for table `goals`
--

```
CREATE TABLE `goals` (  
  `match_date` date NOT NULL,  
  `number_of_goals` int(50) NOT NULL,  
  `scored_by_player_id` int(50) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

--
-- Table structure for table `matches`
--

```
CREATE TABLE `matches` (  
  `match_date` date NOT NULL,  
  `club_id` int(50) NOT NULL,  
  `alternate_club_id` int(100) NOT NULL,  
  `won/lost` varchar(10) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

--
-- Dumping data for table `matches`
--

```
INSERT INTO `matches` (`match_date`, `club_id`, `alternate_club_id`, `won/lost`) VALUES  
(  
'2023-03-08', 2, 4, 'won'),  
(  
'2023-03-09', 5, 15, 'won'),  
(  
'2023-03-10', 11, 20, 'draw'),  
(  
'2023-03-14', 13, 7, 'draw'),  
(  
'2023-03-15', 1, 12, 'won'),  
(  
'2023-03-16', 6, 3, 'won'),  
(  
'2023-04-12', 1, 2, 'won'),  
(  
'2023-04-13', 6, 5, 'won'),  
(  
'2023-04-19', 5, 6, 'lost'),  
(  
'2023-04-20', 2, 1, 'draw'),  
(  
'2023-05-10', 6, 1, 'draw'),  
(  
'2023-05-11', 20, 7, 'lost'),  
(  
'2023-05-17', 7, 20, 'won'),  
(  
'2023-05-18', 1, 6, 'won'),  
(  
'2023-06-11', 1, 7, 'won');
```

--
-- Table structure for table `owners`

```
--  
  
CREATE TABLE `owners` (  
  `owner_id` int(50) NOT NULL,  
  `owner_name` varchar(200) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
--  
-- Dumping data for table `owners`  
--
```

```
INSERT INTO `owners` (`owner_id`, `owner_name`) VALUES  
(1, 'City_Football_Group_Limited'),  
(2, 'bayern_Football_Group_Limited'),  
(3, 'liverpool_Football_Group_Limited'),  
(4, 'psg_Football_Group_Limited'),  
(5, 'arsenal_Football_Group_Limited'),  
(6, 'villareal_Football_Group_Limited'),  
(7, 'brighton_Football_Group_Limited'),  
(8, 'milan_Football_Group_Limited'),  
(9, 'porto_Football_Group_Limited'),  
(10, 'salzburg_Football_Group_Limited'),  
(11, 'dortmund_Football_Group_Limited'),  
(12, 'atletico_Football_Group_Limited'),  
(13, 'chelsea_Football_Group_Limited'),  
(14, 'real_Football_Group_Limited'),  
(15, 'inter_Football_Group_Limited'),  
(16, 'juventis_Football_Group_Limited'),  
(17, 'united_Football_Group_Limited'),  
(18, 'ajax_Football_Group_Limited'),  
(19, 'tottenham_Football_Group_Limited'),  
(20, 'leipzig_Football_Group_Limited');
```

```
-- -----  
  
--  
-- Table structure for table `owner_transaction`  
--
```

```
CREATE TABLE `owner_transaction` (  
  `owner_id` int(50) NOT NULL,  
  `transaction_id` int(50) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
-- -----  
  
--  
-- Table structure for table `players`  
--
```

```
CREATE TABLE `players` (  
  `player_id` int(50) NOT NULL,  
  `player_name` varchar(200) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```

`player_id` int(50) NOT NULL,
`employee_id` int(50) NOT NULL,
`player_name` varchar(200) NOT NULL,
`rating` int(100) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;

--
-- Dumping data for table `players`
--

INSERT INTO `players` (`player_id`, `employee_id`, `player_name`, `rating`) VALUES
(1, 41, 'erling_haaland', 91),
(2, 42, 'Thomas_M?ller', 84),
(3, 43, 'mohamed_salah', 89),
(4, 44, 'kilian_mbappe', 91),
(5, 45, 'Raheem_Sterling', 83),
(6, 46, 'Jude_Bellingham', 86),
(7, 47, 'Lautaro_Mart?nez', 87),
(8, 48, 'Paul_Pogba', 84),
(9, 49, 'Marcus_Rashford', 85),
(10, 50, 'Carlos_Forbs', 70),
(11, 51, 'Cristian_Romero', 82),
(12, 52, 'timo_werner', 82),
(13, 53, 'Pepe', 80),
(14, 54, 'Fernando', 73),
(15, 55, 'Karim_Adeyemi', 80),
(16, 56, '?lvaro_Morata', 83),
(17, 57, 'Kai_Havertz', 82),
(18, 58, 'Eric_Bailly', 80),
(19, 59, 'Jo?o_Pedro', 74),
(20, 60, 'Christian_Pulisic', 79);

```

```

-----

```

```

--
-- Table structure for table `sponsor`
--

```

```

CREATE TABLE `sponsor` (
  `sponsor_id` int(50) NOT NULL,
  `sponsor_name` varchar(200) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;

```

```

--
-- Dumping data for table `sponsor`
--

```

```

INSERT INTO `sponsor` (`sponsor_id`, `sponsor_name`) VALUES
(1, 'Puma'),
(2, 'Adidas'),
(3, 'Carlsberg'),

```

```
(4, 'Qatar_Airways'),
(5, 'Fly_Emirates'),
(6, 'Pamesa'),
(7, 'American_Express'),
(8, 'Adidas'),
(9, 'Legends'),
(10, 'Red_Bull'),
(11, 'Evonik'),
(12, 'Riyadh_Air'),
(13, 'Infinite_Athlete'),
(14, 'Nivea'),
(15, 'U_Power'),
(16, 'Allianz'),
(17, 'Qualcomm'),
(18, 'Ziggo'),
(19, 'Nike'),
(20, 'Red_Bull');
```

```
-----
```

```
--
-- Table structure for table `sponsor_transaction`
--
```

```
CREATE TABLE `sponsor_transaction` (
  `sponsor_id` int(50) NOT NULL,
  `transaction_id` int(50) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
-----
```

```
--
-- Table structure for table `support_staff`
--
```

```
CREATE TABLE `support_staff` (
  `staff_id` int(50) NOT NULL,
  `employee_id` int(50) NOT NULL,
  `staff_name` varchar(200) NOT NULL,
  `role` varchar(200) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
--
-- Dumping data for table `support_staff`
--
```

```
INSERT INTO `support_staff` (`staff_id`, `employee_id`, `staff_name`, `role`) VALUES
(1, 1, 'John', 'medical_staff'),
(2, 2, 'jack', 'management_staff'),
(3, 3, 'joey', 'supply_staff_in_matches'),
(4, 4, 'tom', 'medical_staff');
```



```
(5, 25, 'mike', 'management_staff'),
(6, 26, 'mend', 'medical_staff'),
(7, 27, 'mule', 'supply_staff_in_matches'),
(8, 28, 'jake', 'medical_staff'),
(9, 29, 'son', 'management_staff'),
(10, 30, 'lon', 'medical_staff'),
(11, 31, 'ton', 'supply_staff_in_matches'),
(12, 32, 'henry', 'medical_staff'),
(13, 33, 'harry', 'management_staff'),
(14, 34, 'potter', 'medical_staff'),
(15, 35, 'sam', 'supply_staff_in_matches'),
(16, 36, 'samwise', 'medical_staff'),
(17, 37, 'dobby', 'management_staff'),
(18, 38, 'ron', 'medical_staff'),
(19, 39, 'sean', 'management_staff'),
(20, 40, 'jeff', 'medical_staff');
```

```
--
-- Indexes for dumped tables
--
```

```
--
-- Indexes for table `club`
--
ALTER TABLE `club`
  ADD PRIMARY KEY (`club_id`);
```

```
--
-- Indexes for table `club_owner`
--
ALTER TABLE `club_owner`
  ADD KEY `c-co` (`club_id`),
  ADD KEY `o-co` (`owner_id`);
```

```
--
-- Indexes for table `club_sponsor`
--
ALTER TABLE `club_sponsor`
  ADD KEY `c_cs` (`club_id`),
  ADD KEY `s_cs` (`sponsor_id`);
```

```
--
-- Indexes for table `coach`
--
ALTER TABLE `coach`
  ADD PRIMARY KEY (`coach_id`),
  ADD KEY `e_c` (`employee_id`);
```

```
--
-- Indexes for table `employees`
--
```

```

ALTER TABLE `employees`
  ADD PRIMARY KEY (`employee_id`),
  ADD KEY `c_e` (`club_id`);

--
-- Indexes for table `employee_transaction`
--
ALTER TABLE `employee_transaction`
  ADD KEY `e_et` (`employee_id`),
  ADD KEY `ft_et` (`transaction_id`);

--
-- Indexes for table `financl_transactions`
--
ALTER TABLE `financl_transactions`
  ADD PRIMARY KEY (`transaction_id`),
  ADD KEY `f_c` (`club_id`);

--
-- Indexes for table `goals`
--
ALTER TABLE `goals`
  ADD PRIMARY KEY (`match_date`),
  ADD KEY `p_g` (`scored_by_player_id`);

--
-- Indexes for table `matches`
--
ALTER TABLE `matches`
  ADD PRIMARY KEY (`match_date`),
  ADD KEY `c_m` (`club_id`);

--
-- Indexes for table `owners`
--
ALTER TABLE `owners`
  ADD PRIMARY KEY (`owner_id`);

--
-- Indexes for table `owner_transaction`
--
ALTER TABLE `owner_transaction`
  ADD KEY `o_ot` (`owner_id`),
  ADD KEY `ft_ot` (`transaction_id`);

--
-- Indexes for table `players`
--
ALTER TABLE `players`
  ADD PRIMARY KEY (`player_id`),
  ADD KEY `p_e` (`employee_id`);

```

```

--
-- Indexes for table `sponsor`
--
ALTER TABLE `sponsor`
  ADD PRIMARY KEY (`sponsor_id`);

--
-- Indexes for table `sponsor_transaction`
--
ALTER TABLE `sponsor_transaction`
  ADD KEY `s_st` (`sponsor_id`),
  ADD KEY `ft_st` (`transaction_id`);

--
-- Indexes for table `support_staff`
--
ALTER TABLE `support_staff`
  ADD PRIMARY KEY (`staff_id`),
  ADD KEY `s_e` (`employee_id`);

--
-- AUTO_INCREMENT for dumped tables
--

--
-- AUTO_INCREMENT for table `club`
--
ALTER TABLE `club`
  MODIFY `club_id` int(20) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21;

--
-- AUTO_INCREMENT for table `coach`
--
ALTER TABLE `coach`
  MODIFY `coach_id` int(50) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21;

--
-- AUTO_INCREMENT for table `employees`
--
ALTER TABLE `employees`
  MODIFY `employee_id` int(50) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=61;

--
-- AUTO_INCREMENT for table `owners`
--
ALTER TABLE `owners`
  MODIFY `owner_id` int(50) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21;

--
-- AUTO_INCREMENT for table `players`

```

```

--
ALTER TABLE `players`
  MODIFY `player_id` int(50) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21;

--
-- AUTO_INCREMENT for table `sponsor`
--
ALTER TABLE `sponsor`
  MODIFY `sponsor_id` int(50) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21;

--
-- AUTO_INCREMENT for table `support_staff`
--
ALTER TABLE `support_staff`
  MODIFY `staff_id` int(50) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=21;

--
-- Constraints for dumped tables
--

--
-- Constraints for table `club_owner`
--
ALTER TABLE `club_owner`
  ADD CONSTRAINT `c-co` FOREIGN KEY (`club_id`) REFERENCES `club` (`club_id`),
  ADD CONSTRAINT `o-co` FOREIGN KEY (`owner_id`) REFERENCES `owners` (`owner_id`);

--
-- Constraints for table `club_sponsor`
--
ALTER TABLE `club_sponsor`
  ADD CONSTRAINT `c_cs` FOREIGN KEY (`club_id`) REFERENCES `club` (`club_id`),
  ADD CONSTRAINT `s_cs` FOREIGN KEY (`sponsor_id`) REFERENCES `sponsor` (`sponsor_id`);

--
-- Constraints for table `coach`
--
ALTER TABLE `coach`
  ADD CONSTRAINT `e_c` FOREIGN KEY (`employee_id`) REFERENCES `employees` (`employee_id`);

--
-- Constraints for table `employees`
--
ALTER TABLE `employees`
  ADD CONSTRAINT `c_e` FOREIGN KEY (`club_id`) REFERENCES `club` (`club_id`);

--
-- Constraints for table `employee_transaction`
--
ALTER TABLE `employee_transaction`
  ADD CONSTRAINT `e_et` FOREIGN KEY (`employee_id`) REFERENCES `employees` (`employee_id`),

```

```

    ADD CONSTRAINT `ft_et` FOREIGN KEY (`transaction_id`) REFERENCES `financtal_transactions`
    (`transaction_id`);

--
-- Constraints for table `financtal_transactions`
--
ALTER TABLE `financtal_transactions`
    ADD CONSTRAINT `f_c` FOREIGN KEY (`club_id`) REFERENCES `club` (`club_id`);

--
-- Constraints for table `goals`
--
ALTER TABLE `goals`
    ADD CONSTRAINT `m_g` FOREIGN KEY (`match_date`) REFERENCES `matches` (`match_date`),
    ADD CONSTRAINT `p_g` FOREIGN KEY (`scored_by_player_id`) REFERENCES `players` (`player_id`);

--
-- Constraints for table `matches`
--
ALTER TABLE `matches`
    ADD CONSTRAINT `c_m` FOREIGN KEY (`club_id`) REFERENCES `club` (`club_id`);

--
-- Constraints for table `owner_transaction`
--
ALTER TABLE `owner_transaction`
    ADD CONSTRAINT `ft_ot` FOREIGN KEY (`transaction_id`) REFERENCES `financtal_transactions`
    (`transaction_id`),
    ADD CONSTRAINT `o_ot` FOREIGN KEY (`owner_id`) REFERENCES `owners` (`owner_id`);

--
-- Constraints for table `players`
--
ALTER TABLE `players`
    ADD CONSTRAINT `p_e` FOREIGN KEY (`employee_id`) REFERENCES `employees` (`employee_id`);

--
-- Constraints for table `sponsor_transaction`
--
ALTER TABLE `sponsor_transaction`
    ADD CONSTRAINT `ft_st` FOREIGN KEY (`transaction_id`) REFERENCES `financtal_transactions`
    (`transaction_id`),
    ADD CONSTRAINT `s_st` FOREIGN KEY (`sponsor_id`) REFERENCES `sponsor` (`sponsor_id`);

--
-- Constraints for table `support_staff`
--
ALTER TABLE `support_staff`
    ADD CONSTRAINT `s_e` FOREIGN KEY (`employee_id`) REFERENCES `employees` (`employee_id`);
COMMIT;

```

