

Project Topic

FootBall Management System.

Problem Statement

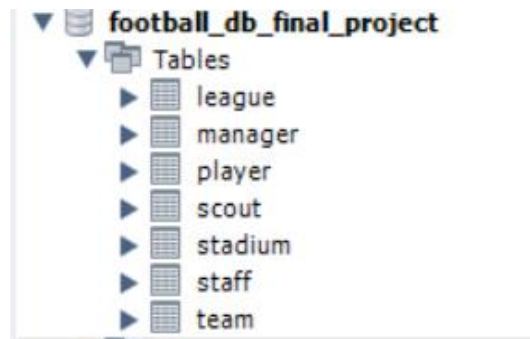
How to manage Football teams and all people who are surrounded by it.

Solution

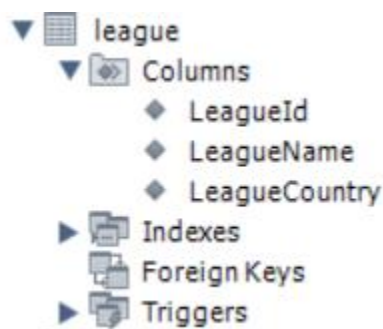
Simply the system and make separate database for every different part of the team to understand the flow easlily.

Tables

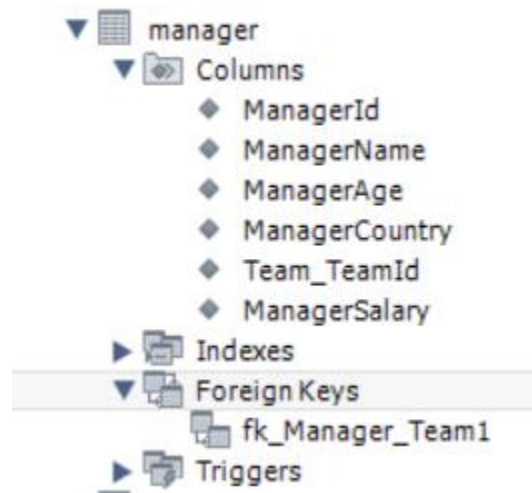
There are total 7 tables in the database. Description about each are as follows: -



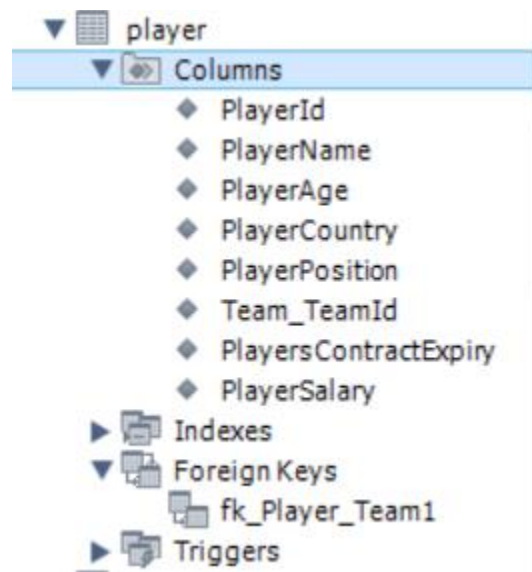
- **League** – LeagueId(PK), LeagueName, LeagueCountry



- **Manager** – ManagerId(PK), ManagerName, ManagerCountry, ManagerSalary, ManagerAge, TeamId(FK)



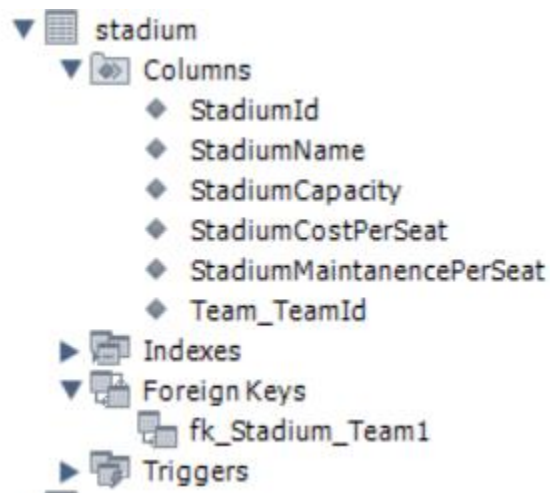
- **Player** – PlayerId(PK), PlayerName, PlayerAge, PlayerCountry, PlayerPosition, PlayerSalary, TeamId(FK)



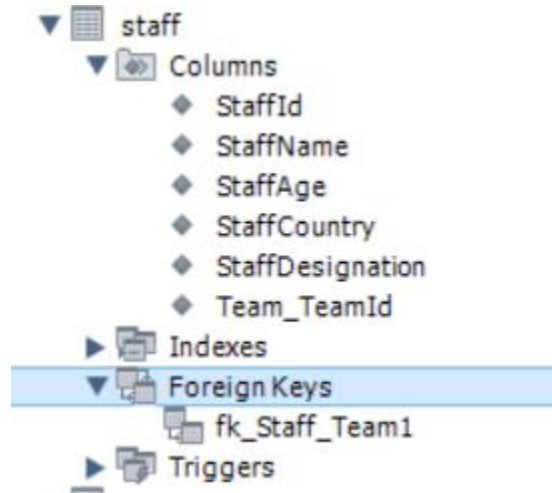
- **Scout** – ScoutId(PK), ScoutName, ScoutAge, ScoutCountry, ScoutSalary, TeamId(FK)



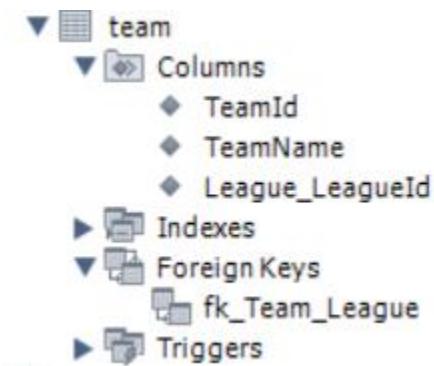
- **Stadium** – StadiumId(PK), StadiumName, StadiumCapacity, StadiumCostPerSeat, StadiumMaintenancePerSeat, TeamId(FK)



- **Staff** – StaffId(PK), StaffName, StaffAge, StaffCountry, StaffDesignation, TeamId(FK)

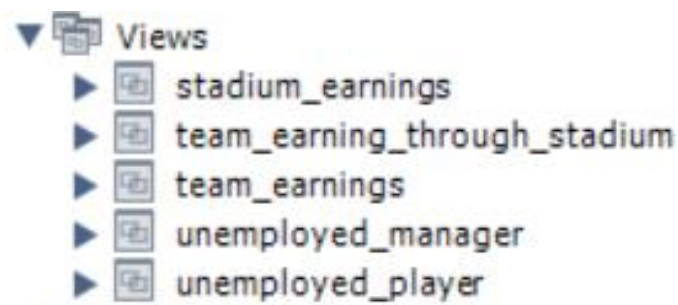


- **Team** – TeamId(PK), TeamName, LeagueId(FK)



Views

There is a total of 5 'views'. The description about them are as follows: -



- **Stadium_earnings** – To find the earnings through stadium.

CREATE

ALGORITHM = UNDEFINED

DEFINER = `root`@`localhost`

SQL SECURITY DEFINER

VIEW `football_db_final_project`.`stadium_earnings` AS

SELECT

`football_db_final_project`.`stadium`.`StadiumName` AS `StadiumName`,

*((`football_db_final_project`.`stadium`.`StadiumCapacity` **

`football_db_final_project`.`stadium`.`StadiumCostPerSeat`) -

*(`football_db_final_project`.`stadium`.`StadiumCapacity` **

`football_db_final_project`.`stadium`.`StadiumMaintenancePerSeat`)) AS `Earnings`

FROM

`football_db_final_project`.`stadium`

StadiumName	Earnings
Law University of Bratislava	16065118
University of Toledo	14502720
University of Connecticut Health Center	11557993
Nebraska Christian College	18144432
Ambrose Alli University	10255705
Bule Hora University	10383750
Xinjiang University of Finance and Economics	13926321
Kwangwoon University	10953066
University Institute of Oriental Studies	15210468
ITT Technical Institute Portland	14936655
Sri Padmavati Women's University	6780930
Universitas Pekalongan	9243495
Swiss Federal Institute of Technology	12087840
South University of Technology	7071246

- **Team_earning_through_stadium** – To replace stadium's name with Team Name but joining 2 tables.

CREATE

ALGORITHM = UNDEFINED

DEFINER = `root`@`localhost`

SQL SECURITY DEFINER

VIEW `football_db_final_project`.`team_earning_through_stadium` AS

SELECT

`football_db_final_project`.`team`.`TeamName` AS `TeamName`,

*((`football_db_final_project`.`stadium`.`StadiumCapacity` *
 `football_db_final_project`.`stadium`.`StadiumCostPerSeat`) -
 (`football_db_final_project`.`stadium`.`StadiumCapacity` *
 `football_db_final_project`.`stadium`.`StadiumMaintenancePerSeat`)) AS `Earnings`*

FROM

(`football_db_final_project`.`team`

*JOIN `football_db_final_project`.`stadium` ON ((`football_db_final_project`.`team`.`TeamId` =
 `football_db_final_project`.`stadium`.`TeamTeamId`)))*

TeamName	Earnings
Manchester United	16065118
Manchester Citv	14502720
Chelsea	11557993
Arsenal	18144432
Tottenham Hotsours	10255705
Real Madrid	10383750
Barcelona	13926321
Celta Vico	10953066
Levante	15210468
AC Milan	14936655
Inter Milan	6780930
Juventus	9243495
AS Roma	12087840
Genoa	7071246

- **Team_earnings** – total team earnings which is after stadium earnings and giving salary to manager , players and scouts.

CREATE

ALGORITHM = UNDEFINED

DEFINER = `root`@`localhost`

SQL SECURITY DEFINER

VIEW `football_db_final_project`.`team_earnings` AS

SELECT

*`football_db_final_project`.`team`.`TeamName` AS `teamName`,
 (((`football_db_final_project`.`stadium`.`StadiumCapacity` *
 `football_db_final_project`.`stadium`.`StadiumCostPerSeat`) -
 (`football_db_final_project`.`stadium`.`StadiumCapacity` *
 `football_db_final_project`.`stadium`.`StadiumMaintenancePerSeat`)) -
 ((SUM(`football_db_final_project`.`player`.`PlayerSalary`) +
 `football_db_final_project`.`manager`.`ManagerSalary`) +
 SUM(`football_db_final_project`.`scout`.`ScoutSalary`))) AS `Expenses`*

FROM

*(((`football_db_final_project`.`player`
 JOIN `football_db_final_project`.`team` ON ((`football_db_final_project`.`team`.`TeamId` =
 `football_db_final_project`.`player`.`Team_TeamId`)))
 JOIN `football_db_final_project`.`manager` ON ((`football_db_final_project`.`team`.`TeamId` =
 `football_db_final_project`.`manager`.`Team_TeamId`)))
 JOIN `football_db_final_project`.`stadium` ON ((`football_db_final_project`.`team`.`TeamId` =
 `football_db_final_project`.`stadium`.`Team_TeamId`)))
 JOIN `football_db_final_project`.`scout` ON ((`football_db_final_project`.`scout`.`Team_TeamId` =
 `football_db_final_project`.`team`.`TeamId`)))*

GROUP BY `football_db_final_project`.`team`.`TeamName`

	teamName	Expenses
	AC Milan	14926341
	Arsenal	18133957
	AS Roma	12077289
	Barcelona	13915593
	Celta Vico	10942828
	Chelsea	11547433
	Genoa	7060540
	Inter Milan	6770461
	Juventus	9233102
	Levante	15200309
	Manchester Citv	14492329
	Manchester United	16054896
	Real Madrid	10372939
	Tottenham Hotsours	10245063

- **Unemployed_manager** – to find the list of all managers who are not allocated to any team and are in free poll

CREATE

ALGORITHM = UNDEFINED

DEFINER = `root`@`localhost`

SQL SECURITY DEFINER

VIEW `football_db_final_project`.`unemployed_manager` AS

SELECT

*`football_db_final_project`.`manager`.`ManagerId` AS `ManagerId`,
`football_db_final_project`.`manager`.`ManagerName` AS `ManagerName`,
`football_db_final_project`.`manager`.`ManagerAge` AS `ManagerAge`,
`football_db_final_project`.`manager`.`ManagerCountry` AS `ManagerCountry`,
`football_db_final_project`.`manager`.`Team_TeamId` AS `Team_TeamId`*

FROM

`football_db_final_project`.`manager`

WHERE

ISNULL(`football_db_final_project`.`manager`.`Team_TeamId`)

	ManagerId	ManagerName	ManagerAge	ManagerCountry	Team_TeamId
	16	Nitin Prince	25	India	NULL
	17	Jackie Chan	50	Asia	NULL

- **Unemployed_Player** – to find the list of players who are not allocated to any team and are in free pool

CREATE

ALGORITHM = UNDEFINED

DEFINER = `root`@`localhost`

SQL SECURITY DEFINER

VIEW `football_db_final_project`.`unemployed_player` AS

SELECT

`football_db_final_project`.`player`.`PlayerId` AS `PlayerId`,

`football_db_final_project`.`player`.`PlayerName` AS `PlayerName`,

`football_db_final_project`.`player`.`PlayerAge` AS `PlayerAge`,

`football_db_final_project`.`player`.`PlayerCountry` AS `PlayerCountry`,

`football_db_final_project`.`player`.`PlayerPosition` AS `PlayerPosition`,

`football_db_final_project`.`player`.`Team_TeamId` AS `Team_TeamId`,

`football_db_final_project`.`player`.`PlayersContractExpiry` AS `PlayersContractExpiry`

FROM

`football_db_final_project`.`player`

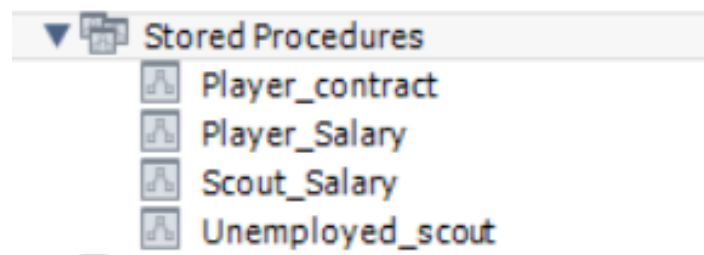
WHERE

ISNULL(`football_db_final_project`.`player`.`Team_TeamId`)

	PlayerId	PlayerName	PlayerAge	PlayerCountry	PlayerPosition	Team_TeamId	PlayersContractExpiry
	627	Messi	30	Argentina	ST	NULL	2016
	679	Ronaldo	31	Portugal	ST	NULL	2016

Stored Procedure

There are total 4 ‘stored procedures. The description of them are as follows: -



- **Player_contract** – to find the list of players whose contract are getting expired in 2017 so that you can approach them to buy them.

```
CREATE DEFINER='root'@'localhost' PROCEDURE `Player_contract`()
```

```
BEGIN
```

```
Select PlayerName , PlayerPosition from Player where PlayersContractExpiry = 2017;
```

```
END
```

	PlayerName	PlayerPosition
	Daren Follett	GK
	Ileane Ashborn	GK
	Tarrance Ludron	GK
	Wallie Jikvils	GK
	Ebonee Kean	GK
	Delia Caukill	GK
	Roselle Lallv	GK
	Irwin Harriman	GK
	Shaine Jirasek	GK
	Amaleta de Clerc	DEF
	Vincent's Caps	DEF
	Ezechiel Trow	DEF
	Kile Winsburv	DEF
	Georgie Sink	DEF

Result 1 x

- **Player_Salary** – to find how much a team is spending on player's salary

```
CREATE DEFINER='root'@'localhost' PROCEDURE `Player_Salary`()
```

```
BEGIN
```

```
select all TeamName , sum(PlayerSalary) as Expenses from team inner join player on team.teamid =  
player.team_teamId group by teamName;
```

```
END
```

TeamName	Expenses
AC Milan	2000
Arsenal	1974
AS Roma	2078
Atletico Madrid	1922
Barcelona	2058
Celta Vigo	1948
Chelsea	1946
Genoa	2104
Inter Milan	2026
Juventus	2052
Levante	1974
Manchester City	1918
Manchester United	1890
Real Madrid	2030

- **Scout_Salary** – To find how much a team is spending on scout's salary.

```
CREATE DEFINER='root'@'localhost' PROCEDURE `Scout_Salary`()
```

```
BEGIN
```

```
select TeamName , sum(ScoutSalary) as Money from team inner join scout on team.teamId =  
scout.Team_TeamId group by TeamName;
```

```
END
```

	TeamName	Money
	AC Milan	324
	Arsenal	318
	AS Roma	324
	Atletico Madrid	324
	Barcelona	318
	Celta Vigo	330
	Chelsea	330
	Genoa	330
	Inter Milan	330
	Juventus	318
	Levante	318
	Manchester City	324
	Manchester United	318
	Real Madrid	330

- **Unemployed_Scout** – To find the list of scouts who are not working for any team.

```
CREATE DEFINER='root'@'localhost' PROCEDURE `Unemployed_scout`()
```

```
BEGIN
```

```
select * from scout where Team_TeamId is null;
```

```
END
```

	ScoutId	ScoutName	ScoutAge	ScoutCountry	Team_TeamId	ScoutSalary
	46	Shin Chan	33	Korea	NULL	110