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**Title:** SQL database of the structure of a football club

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**Course:** 2nd year Entertainment Systems

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**Introduction**

The database I have chosen to design is modelled on a UML diagram that depicts the general structure of a football club. The UML model shows how the key classes of a football club and the associations between these classes create the core structure of a football club.

I have drawn inspiration from a UML diagram I previously designed, in order to create a database that allows the user to examine and determine key elements of a football club, ranging from the league in which a team competes, to the specifics of a player of staff member’s contract.

**Business Description**

The main reasoning behind the implementation of this database is to provide the user with an easy to use means of accessing aspects of a club’s information such as staff contracts, stadium details, a team’s upcoming fixtures and other varying aspects. The database is designed so the user can perform functions such as easily adding or removing people to/from a club, as well as determining the duration of the individuals contract along with the weekly salary they will receive. The user can use the database to examine various other elements of a particular club, such as the depth of a squad in a particular position, expiring contracts or salary expenditure. The implementation of the database means that squad management is simplified and easily monitored, allowing for easily implementable changes where needed.

**Model Section: Database Construction and population**

The following SQL code creates the unpopulated tables for my database. In total there are eight tables, each with various attributes and associated keys.

**Creates club table**

delimiter $$

CREATE TABLE `club` (

`clubName` varchar(45) NOT NULL,

`location` varchar(45) NOT NULL,

`league` varchar(45) NOT NULL,

PRIMARY KEY (`clubName`),

KEY `playsIn\_idx` (`league`),

CONSTRAINT `playsIn` FOREIGN KEY (`league`) REFERENCES `league` (`leagueName`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

**Code to populate club table**

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('AC Milan','Milan','Serie A');$$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Barcelona','Barcelona','La Liga'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Bayern Munich','Munich','Bundesliga'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Cardiff','Cardiff','Championship'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Inter Milan','Milan','Serie A'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Manchester United','Manchester','Premiership'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Newcastle United','Newcastle','Premiership'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Real Madrid','Madrid','La Liga'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Roma','Rome','Serie A'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Spurs','London','Premiership'); $$

I then populated the table with ten clubs from a number of different leagues. Each club has a clubName (which acts as a primary key), a location, and a league that it is enrolled in (foreign key).



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/Not Null** | **Constraints** | **Default** |
| clubName | VARCHAR | 45 | PK | Not Null | Unique |  |
| location | VARCHAR | 45 |  | Not Null |  |  |
| league | VARCHAR | 45 | FK | Not Null |  |  |

**Creates contract table**

delimiter $$

CREATE TABLE `contract` (

`contractID` int(11) NOT NULL,

`startDate` date NOT NULL,

`endDate` date NOT NULL,

`salary` int(11) NOT NULL,

PRIMARY KEY (`contractID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

**Populates contract table**

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10001,'2009-01-01','2012-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10002,'2010-04-04','2014-04-04',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10003,'2011-11-17','2015-11-17',32000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10004,'2012-04-04','2016-04-04',26000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10005,'2011-02-02','2016-02-02',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10006,'2010-01-01','2010-01-01',60000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10007,'2009-01-01','2014-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10008,'2009-01-07','2014-01-07',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10009,'2012-11-11','2016-11-11',35000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10010,'2013-01-01','2017-11-11',67000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10011,'2008-11-04','2015-11-04',12500); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10012,'2010-11-09','2015-11-09',125000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10013,'2013-02-19','2017-02-19',40000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10014,'2010-01-01','2014-01-01',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10015,'2011-07-25','2015-07-25',65000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10016,'2009-05-06','2013-05-06',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10017,'2011-11-16','2015-11-16',80000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10018,'2010-07-29','2014-07-29',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10019,'2012-05-01','2017-05-01',60000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10020,'2013-03-15','2018-03-15',90000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10021,'2012-01-01','2015-01-01',60000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10022,'2013-01-01','2018-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10023,'2010-05-05','2016-05-05',65000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10024,'2010-01-01','2016-01-01',45000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10025,'2010-05-04','2014-05-04',60000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10026,'2010-01-01','2016-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10027,'2009-07-11','2014-07-11',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10028,'2013-01-01','2017-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10029,'2010-01-01','2010-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10030,'2011-05-05','2015-05-05',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10031,'2008-06-06','2014-06-06',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10032,'2013-12-12','2018-12-12',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10033,'2009-01-01','2015-01-01',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10034,'2008-03-03','2015-03-03',40000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10035,'2011-01-01','2016-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10036,'2013-03-03','2018-03-03',45000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10037,'2013-01-01','2018-01-01',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10038,'2009-01-01','2015-01-01',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10039,'2009-01-01','2014-01-01',15000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10040,'2012-01-01','2017-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10041,'2013-01-01','2016-01-01',15000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10042,'2013-02-02','2016-02-02',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10043,'2010-01-01','2015-01-01',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10044,'2010-01-01','2015-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10045,'2012-01-01','2017-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10046,'2010-01-01','2015-01-01',40000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10047,'2012-05-05','2017-05-05',35000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11101,'2010-01-01','2019-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11102,'2005-01-01','2014-01-01',15000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11103,'2009-05-07','2014-05-07',10000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11104,'2010-12-12','2017-12-12',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11105,'2009-11-05','2009-11-05',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11106,'2010-01-01','2014-01-01',15000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11107,'2009-05-05','2016-05-05',3000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11108,'2010-03-03','2015-03-03',40000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11109,'2012-01-01','2016-01-01',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11110,'2011-04-04','2017-04-04',15000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11111,'2013-01-01','2013-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11112,'2013-02-02','2017-02-02',35000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11113,'2012-01-01','2015-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11114,'2013-01-01','2018-01-01',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11115,'2009-04-04','2013-04-04',45000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11116,'2010-01-01','2015-01-01',30000); $$

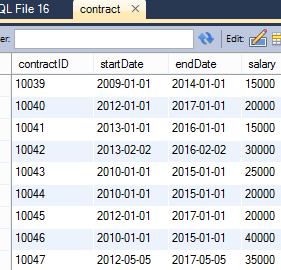
INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11117,'2012-05-05','2017-05-05',40000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11118,'2010-11-11','2018-11-11',55000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11119,'2009-01-01','2014-01-01',4000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11120,'2010-03-03','2015-03-03',35000); $$

The contract table is populated with over fifty contracts for players and staff. Each contract specifies a date the contract was issued and the date it will expire. A weekly salary is also set. The contract ID is the primary key of the contract table.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/Not Null** | **Constraints** |
| ContractID | INT | 11 | PK | Not Null | Unique |
| startDate | DATE | YYYY-MM-DD(8) |  | Not Null |  |
| endDate | DATE | YYYY-MM-DD(8) |  | Not Null |  |
| salary | INT | 11 |  | Not Null |  |

**Creates fixture table**

delimiter $$

CREATE TABLE `fixture` (

`date` date NOT NULL,

`time` time NOT NULL,

`homeTeam` varchar(45) NOT NULL,

`awayTeam` varchar(45) NOT NULL,

`match\_ID` varchar(45) NOT NULL,

PRIMARY KEY (`match\_ID`),

KEY `teamPlayingAtHome\_idx` (`homeTeam`),

KEY `awayTeamSelected\_idx` (`awayTeam`),

CONSTRAINT `awayTeamSelected` FOREIGN KEY (`awayTeam`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `homeTeamSelected` FOREIGN KEY (`homeTeam`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

**Populate fixture table**

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-05-05','19:45:00','Newcastle United','Manchester United','1'); $$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-05-05','19:45:00','Barcelona','Real Madrid','2'); $$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-09-09','19:45:00','Spurs','Manchester United','3'); $$

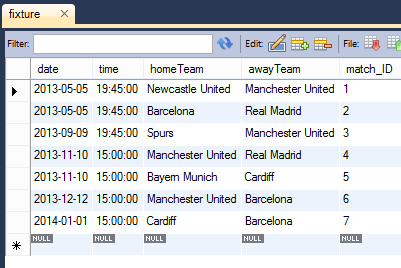
INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-11-10','15:00:00','Manchester United','Real Madrid','4'); $$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-11-10','15:00:00','Bayern Munich','Cardiff','5'); $$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-12-12','15:00:00','Manchester United','Barcelona','6'); $$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2014-01-01','15:00:00','Cardiff','Barcelona','7'); $$

The fixtures table specifies matches between two clubs. Each match is identifiable by its match\_ID which acts as a primary key. Both homeTeam and awayTeam are foreign keys to a clubName(PK) in the club table.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/Not Null** | **Constraints** |
| date | DATE | YYYY-MM-DD(8) |  | Not Null |  |
| time | TIME | TT-TT-TT(6) |  | Not Null |  |
| homeTeam | VARCHAR | 45 | FK | Not Null |  |
| awayTeam | VARCHAR | 45 | FK | Not Null |  |
| match\_ID | INT | 11 | PK | Nit Null | Unique |

**Creates league table**

delimiter $$

CREATE TABLE `league` (

`leagueName` varchar(45) NOT NULL,

`location` varchar(3) NOT NULL,

PRIMARY KEY (`leagueName`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

**Populate league table**

INSERT INTO `league` (`leagueName`,`location`) VALUES ('Bundesliga','GER'); $$

INSERT INTO `league` (`leagueName`,`location`) VALUES ('Championship','ENG'); $$

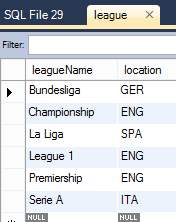
INSERT INTO `league` (`leagueName`,`location`) VALUES ('La Liga','SPA'); $$

INSERT INTO `league` (`leagueName`,`location`) VALUES ('League 1','ENG'); $$

INSERT INTO `league` (`leagueName`,`location`) VALUES ('Premiership','ENG'); $$

INSERT INTO `league` (`leagueName`,`location`) VALUES ('Serie A','ITA'); $$

The league table holds a leagueName and its location. The leagueName is a primary key as no two leagues will have the same name.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/Not Null** | **Constraints** |
| leagueName | VARCHAR | 45 | PK | Not Null | Unique |
| Location | VARCHAR | 3 |  | Not Null |  |

**Creates player table**

delimiter $$

CREATE TABLE `player` (

`player\_ID` int(11) NOT NULL,

`firstName` varchar(45) NOT NULL,

`lastName` varchar(45) NOT NULL,

`age` int(11) NOT NULL,

`position` varchar(45) NOT NULL,

`club` varchar(45) NOT NULL,

`contract\_Id` int(11) NOT NULL,

PRIMARY KEY (`player\_ID`),

KEY `playsFor\_idx` (`club`),

KEY `signedContract\_idx` (`contract\_Id`),

CONSTRAINT `playsForClub` FOREIGN KEY (`club`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `signedContract` FOREIGN KEY (`contract\_Id`) REFERENCES `contract` (`contractID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

**Populates player table**

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (1,'Yohan','Cabaye',26,'Midfield','Newcastle United',10001); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (2,'Tim','Krul',26,'Goalkeeper','Newcastle United',10002); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (3,'Danny','Simpson',25,'Defender','Newcastle United',10003); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (4,'Sammy','Ameobi',19,'Midfielder','Newcastle United',10004); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (5,'Pappis','Cisse',28,'Striker','Newcastle United',10005); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (6,'Tom','Cleverley',24,'Midfielder','Manchester United',10006); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (7,'Rio','Ferdinand',33,'Defender','Manchester United',10007); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (8,'Wayne','Rooney',29,'Striker','Manchester United',10008); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (9,'Craig','Bellamy',32,'Striker','Cardiff',10009); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (10,'Clint','Dempsey',29,'Striker','Spurs',10010); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (11,'Jermaine','Defoe',30,'Striker','Spurs',10011); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (12,'Lewis','Holtby',24,'Midfielder','Spurs',10012); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (13,'Michael','Dawson',29,'Defender','Spurs',10013); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (14,'Hugo','Lloris',26,'Goalkeeper','Spurs',10014); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (15,'Nemanja','Vidic',31,'Defender','Manchester United',10015); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (16,'Tom','Gardener',23,'Defender','Cardiff',10016); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (17,'James','Forrest',29,'Striker','Cardiff',10017); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (18,'Xabi','Alonso',31,'Midfielder','Real Madrid',10018); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (19,'Cristiano','Ronaldo',27,'Midfielder','Real Madrid',10019); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (20,'Sergio','Ramos',27,'Defender','Real Madrid',10020); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (21,'Lionel','Messi',26,'Midfielder','Barcelona',10021); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (22,'Andreas','Iniesta',27,'Midfielder','Barcelona',10022); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (23,'Gerrard','Pique',29,'Defender','Barcelona',10023); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (24,'Sergio','Busquetes',28,'Midfielder','Barcelona',10024); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (25,'Mario','Balotelli',25,'Striker','AC Milan',10025); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (26,'Paulo','Maldini',37,'Defender','AC Milan',10026); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (27,'Antonio','Fernandes',21,'Midfielder','AC Milan',10027); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (28,'Xavier','Ramieres',19,'Goalkeeper','AC Milan',10028); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (29,'Francesco','Totti',35,'Striker','Roma',10029); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (30,'Edgar','Davids',39,'Midfielder','Roma',10030); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (31,'Thiery','Henry',35,'Striker','Roma',10031); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (32,'Robert','Pires',34,'Midfielder','Roma',10032); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (33,'Emanuel','Petit',43,'Midfielder','Roma',10033); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (34,'Sean','Fanning',21,'Striker','Inter Milan',10034); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (35,'Jamie','Hegarty',20,'Defender','Inter Milan',10035); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (36,'Patrick','Dunne',30,'Goalkeeper','Inter Milan',10036); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (37,'Francis','Nesta',31,'Defender','Inter Milan',10037); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (38,'John','Risse',23,'Midfielder','Real Madrid',10038); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (39,'Andy','Serkis',31,'Defender','Real Madrid',10039); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (40,'Shay','Given',35,'Goalkeeper','Cardiff',10040); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (41,'Ian','Shawcross',31,'Defender','Cardiff',10041); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (42,'James','Richards',19,'Midfielder','Bayern Munich',10042); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (43,'Tim','Allen',18,'Defender','Bayern Munich',10043); $$

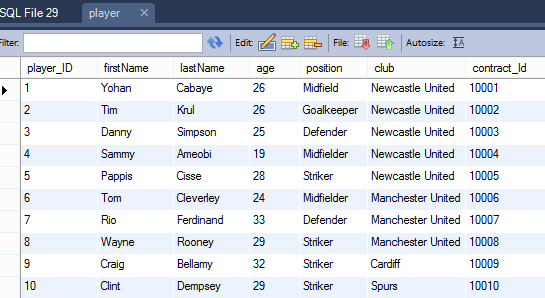
INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (44,'John','Stone',23,'Midfielder','Cardiff',10044); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (45,'Kieran','Sullivan',35,'Goalkeeper','Newcastle United',10045); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (46,'Bernard','Joyne',24,'Striker','Spurs',10046); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (47,'Harold','Nesbitt',19,'Sriker','Spurs',10047); $$

The player table holds information regarding the individual players. Each player can be identified by a unique primary key. A player has must have a position, age and name(first and last). Players are all employed by a club(FK) and each player has a unique contract\_Id that associates them with a contract.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/ Not Null** | **Constraints** |
| Player\_ID | INT | 11 | PK | Not Null | Unique |
| firstName | VARCHAR | 45 |  | Not Null |  |
| lastName | VARCHAR | 45 |  | Not Null |  |
| age | INT | 11 |  | Not Null |  |
| position | VARCHAR | 45 |  | Not Null |  |
| club | VARCHAR | 45 | FK | Not Null |  |
| contract\_Id | INT | 11 | FK | Not Null | Unique |

**Creates stadium table**

delimiter $$

CREATE TABLE `stadium` (

`stadiumName` varchar(45) NOT NULL,

`location` varchar(45) NOT NULL,

`capacity` int(11) NOT NULL,

`club` varchar(45) NOT NULL,

PRIMARY KEY (`stadiumName`),

KEY `homeGround\_idx` (`club`),

CONSTRAINT `homeGroundTo` FOREIGN KEY (`club`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

**Populates stadium table**

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('Allianz Arena','Munich',60000,'Bayern Munich'); $$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('Bernabeau','Madrid',80000,'Real Madrid'); $$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('Camp Nou','Barcelona',60000,'Barcelona'); $$

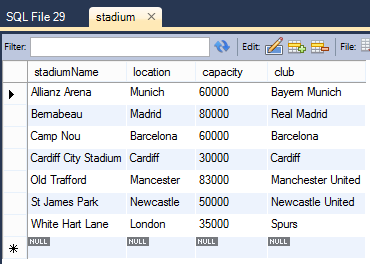
INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('Cardiff City Stadium','Cardiff',30000,'Cardiff'); $$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('Old Trafford','Mancester',83000,'Manchester United'); $$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('St James Park','Newcastle',50000,'Newcastle United'); $$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('White Hart Lane','London',35000,'Spurs'); $$

The stadium class holds information on a clubs home ground. Each stadium has a stadiumName(PK), a place where it is situated, a max capacity and an associated club.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/Not Null** | **Constraints** |
| stadiumName | VARCHAR | 45 | PK | Not Null | Unique |
| location | VARCHAR | 45 |  | Not Null |  |
| capacity | INT | 11 |  | Not Null |  |
| club | VARCHAR | 45 | FK | Not null |  |

**Creates staff table**

delimiter $$

CREATE TABLE `staff` (

`staff\_ID` int(11) NOT NULL,

`firstName` varchar(45) NOT NULL,

`lastName` varchar(45) NOT NULL,

`position` varchar(45) NOT NULL,

`age` int(11) NOT NULL,

`club` varchar(45) NOT NULL,

`contract\_Identifier` int(11) NOT NULL,

PRIMARY KEY (`staff\_ID`),

KEY `worksFor\_idx` (`club`),

KEY `putPenToPaperFor\_idx` (`contract\_Identifier`),

CONSTRAINT `employedBy` FOREIGN KEY (`club`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `putPenToPaperFor` FOREIGN KEY (`contract\_Identifier`) REFERENCES `contract` (`contractID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

The staff table is similar to the player table. It contains a unique identifier(staff\_Id), and contains foreign keys to each staff members individual contract and club.

**Populates staff table**

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (1,'Ian','Fleming','Manager',56,'Newcastle United',11101); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (2,'James','Duffy','Assistant Manager',54,'Newcastle United',11102); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (3,'Alex','Ferguson','Manager',76,'Manchester United',11103); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (4,'Lee','Carlisle','Assistant Manager',53,'Manchester United',11104); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (5,'Andres','Villas-Boas','Manager',33,'Spurs',11105); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (6,'Thomas','Ford','Assistant Manager',43,'Spurs',11106); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (7,'Edward','Jenkins','Manager',57,'Cardiff',11107); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (8,'John','Harte','Assistant Manager',78,'Cardiff',11108); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (9,'Richard','Cummins','Scout',45,'Cardiff',11109); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (10,'Karl','Summers','Scout',67,'Manchester United',11110); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (11,'Chico','Florres','Manager',78,'Barcelona',11111); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (12,'Toto','Maldini','Assistant Manager',65,'Barcelona',11112); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (13,'Jose','Mouriniho','Manager',56,'Real Madrid',11113); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (14,'Pep','Guardiola','Manager',43,'Bayern Munich',11114); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (15,'Tomas','Voric','Assistant Manager',76,'Bayern Munich',11115); $$

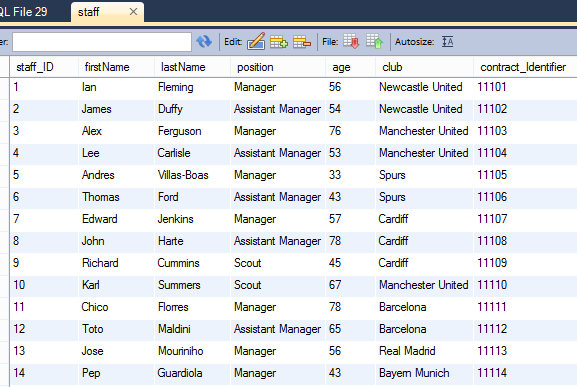
INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (16,'Ricardo','Gomes','Assistant Manager',54,'Real Madrid',11116); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (17,'Graeme','Carr','Scout',51,'Newcastle United',11117); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (18,'Ethan','Holden','Scout',66,'Cardiff',11118); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (19,'Sean','Collins','Scout',54,'Barcelona',11119); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (20,'Thomas','Douglas','Scout',45,'Bayern Munich',11120); $$



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/ Not Null** | **Constraints** |
| staff\_ID | INT | 11 | PK | Not Null | Unique |
| firstName | VARCHAR | 45 |  | Not Null |  |
| lastName | VARCHAR | 45 |  | Not Null |  |
| age | INT | 11 |  | Not Null |  |
| position | VARCHAR | 45 |  | Not Null |  |
| club | VARCHAR | 45 | FK | Not Null |  |
| contract\_Identifier | INT | 11 | FK | Not Null | Unique |

**Creates youthAcademy table**

delimiter $$

CREATE TABLE `youthacademy` (

`academyID` int(11) NOT NULL,

`location` varchar(45) NOT NULL,

`associatedClub` varchar(45) NOT NULL,

PRIMARY KEY (`academyID`),

KEY `developPlayersIn\_idx` (`associatedClub`),

CONSTRAINT `developedBy` FOREIGN KEY (`associatedClub`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

**Populates youthAcademy table**

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (1,'Africa','Newcastle United'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (2,'China','Newcastle United'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (3,'Brazil','Real Madrid'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (4,'France','Cardiff'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (5,'Iceland','Barcelona'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (6,'Portugal','Barcelona'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (7,'Spain','Barcelona'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (8,'Africa','Spurs'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (9,'South America','Real Madrid'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (10,'Canada','Real Madrid'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (11,'South America','Manchester United'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (12,'Asia','Cardiff'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (13,'Australia','Bayern Munich'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (14,'Iceland','Bayern Munich'); $$

Clubs can have one or more youth academy associated to them. Each academy can be uniquely identified, and only one club can be associated with a youth academy, but multiple clubs can have academies in the same location. Academies are distinguishable by their ID.



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/ Not Null** | **Constraints** |
| academyID | INT | 11 | PK | Not Null | Unique |
| location | VARCHAR | 45 |  | Not Null |  |
| associatedClub | VARCHAR | 45 | FK | Not Null |  |

**SQL Queries**

In total, I have included nine queries that all perform some form of data manipulation based on the information held in the database.

**alphabetical\_List\_All\_Players\_And\_Staff**

This query lists out an alphabetical list of all registered persons in the database. This includes both players and staff. . The list is alphabetized based on surname. The use of the UNION command allows for the information from both the staff and player table to be listed together.

*SELECT firstName, lastName, club FROM player*

*UNION*

*SELECT firstName, lastName, club FROM staff*

*order by lastName*

**average\_salary**

The average\_salary query calculates the total sum of salaries of all players and staff members and then lists the average salary.

*SELECT AVG(salary) as averageSalary from contract*

**Clubs\_In\_Premiership**

This query lists out all clubs that are enlisted in the Premiership league.

*select \* from club where league = 'Premiership'*

*order by clubName*

**expiringContracts**

The expiringContracts query outputs a list of player contracts that are due to expire before a specified date, in this case 2015-01-01. The output is then organized based on the end date of the contract.

*select player.firstName, player.lastName , contract.endDate*

*from player join contract on contract.contractID = player.contract\_Id*

*where contract.endDate < 20150101*

*order by endDate*

**goalkeeper\_Ascending\_Salary**

This query outputs a list of all goalkeepers and their respective clubs and salary. The list is organized in ascending order of goalkeeper salaries.

*select player.lastName, player.position, player.club, contract.salary*

*from player join contract on player.contract\_Id = contract.contractID*

*where player.position = 'Goalkeeper'*

*order by salary*

**managersContracts**

The managersContracts query outputs an organised list of managers that have longer that 9 months left to run on their contracts. The list is organized based on managers surnames.

*select staff.lastName, staff.firstName , contract.startDate, contract.endDate*

*from staff join contract on contract.contractID = staff.contract\_Identifier*

*where contract.endDate > 20130101 and staff.position = 'Manager'*

*order by lastName*

**ordered\_List\_Based\_On\_Position**

This query prints out a list of all players in the database organized by their position. The organize by position parameter organizes the list alphabetically based on position.

*select player.lastName, player.position, player.club*

*from player join contract on player.contract\_Id = contract.contractID*

*order by position*

**salaryOver40000**

The salaryOver40000 query outputs a list of players that have a salary of over 40000. The list is ordered alphabetically.

*select player.lastName, contract.salary*

*from player join contract on contract.contractID = player.contract\_Id*

*where contract.salary > 40000*

*ORDER by lastName*

**stadium\_Capacity**

This query outputs information of stadiums that satisfy the parameters of a capacity > 30000 and less than 70000.

*select \* from stadium where capacity > 50000 and capacity < 70000*

**team\_average\_age**

This query takes all players from “Newcastle United” and calculates the average age of the team.

*SELECT AVG(age) as average\_Team\_Age from player*

*where player.club = 'Newcastle United'*

**SQL Script to create and run database**

Running the following script will create the full database and populate it with the fields presented in this document.

delimiter $$

CREATE TABLE `contract` (

`contractID` int(11) NOT NULL,

`startDate` date NOT NULL,

`endDate` date NOT NULL,

`salary` int(11) NOT NULL,

PRIMARY KEY (`contractID`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10001,'2009-01-01','2012-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10002,'2010-04-04','2014-04-04',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10003,'2011-11-17','2015-11-17',32000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10004,'2012-04-04','2016-04-04',26000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10005,'2011-02-02','2016-02-02',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10006,'2010-01-01','2010-01-01',60000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10007,'2009-01-01','2014-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10008,'2009-01-07','2014-01-07',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10009,'2012-11-11','2016-11-11',35000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10010,'2013-01-01','2017-11-11',67000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10011,'2008-11-04','2015-11-04',12500); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10012,'2010-11-09','2015-11-09',125000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10013,'2013-02-19','2017-02-19',40000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10014,'2010-01-01','2014-01-01',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10015,'2011-07-25','2015-07-25',65000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10016,'2009-05-06','2013-05-06',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10017,'2011-11-16','2015-11-16',80000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10018,'2010-07-29','2014-07-29',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10019,'2012-05-01','2017-05-01',60000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10020,'2013-03-15','2018-03-15',90000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10021,'2012-01-01','2015-01-01',60000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10022,'2013-01-01','2018-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10023,'2010-05-05','2016-05-05',65000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10024,'2010-01-01','2016-01-01',45000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10025,'2010-05-04','2014-05-04',60000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10026,'2010-01-01','2016-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10027,'2009-07-11','2014-07-11',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10028,'2013-01-01','2017-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10029,'2010-01-01','2010-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10030,'2011-05-05','2015-05-05',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10031,'2008-06-06','2014-06-06',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10032,'2013-12-12','2018-12-12',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10033,'2009-01-01','2015-01-01',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10034,'2008-03-03','2015-03-03',40000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10035,'2011-01-01','2016-01-01',50000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10036,'2013-03-03','2018-03-03',45000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10037,'2013-01-01','2018-01-01',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10038,'2009-01-01','2015-01-01',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10039,'2009-01-01','2014-01-01',15000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10040,'2012-01-01','2017-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10041,'2013-01-01','2016-01-01',15000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10042,'2013-02-02','2016-02-02',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10043,'2010-01-01','2015-01-01',25000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10044,'2010-01-01','2015-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10045,'2012-01-01','2017-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10046,'2010-01-01','2015-01-01',40000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (10047,'2012-05-05','2017-05-05',35000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11101,'2010-01-01','2019-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11102,'2005-01-01','2014-01-01',15000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11103,'2009-05-07','2014-05-07',10000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11104,'2010-12-12','2017-12-12',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11105,'2009-11-05','2009-11-05',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11106,'2010-01-01','2014-01-01',15000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11107,'2009-05-05','2016-05-05',3000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11108,'2010-03-03','2015-03-03',40000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11109,'2012-01-01','2016-01-01',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11110,'2011-04-04','2017-04-04',15000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11111,'2013-01-01','2013-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11112,'2013-02-02','2017-02-02',35000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11113,'2012-01-01','2015-01-01',20000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11114,'2013-01-01','2018-01-01',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11115,'2009-04-04','2013-04-04',45000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11116,'2010-01-01','2015-01-01',30000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11117,'2012-05-05','2017-05-05',40000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11118,'2010-11-11','2018-11-11',55000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11119,'2009-01-01','2014-01-01',4000); $$

INSERT INTO `contract` (`contractID`,`startDate`,`endDate`,`salary`) VALUES (11120,'2010-03-03','2015-03-03',35000); $$

delimiter $$

CREATE TABLE `league` (

`leagueName` varchar(45) NOT NULL,

`location` varchar(3) NOT NULL,

PRIMARY KEY (`leagueName`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

INSERT INTO `league` (`leagueName`,`location`) VALUES ('Bundesliga','GER'); $$

INSERT INTO `league` (`leagueName`,`location`) VALUES ('Championship','ENG'); $$

INSERT INTO `league` (`leagueName`,`location`) VALUES ('La Liga','SPA'); $$

INSERT INTO `league` (`leagueName`,`location`) VALUES ('League 1','ENG'); $$

INSERT INTO `league` (`leagueName`,`location`) VALUES ('Premiership','ENG'); $$

INSERT INTO `league` (`leagueName`,`location`) VALUES ('Serie A','ITA'); $$

delimiter $$

CREATE TABLE `club` (

`clubName` varchar(45) NOT NULL,

`location` varchar(45) NOT NULL,

`league` varchar(45) NOT NULL,

PRIMARY KEY (`clubName`),

KEY `playsIn\_idx` (`league`),

CONSTRAINT `playsIn` FOREIGN KEY (`league`) REFERENCES `league` (`leagueName`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('AC Milan','Milan','Serie A');$$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Barcelona','Barcelona','La Liga'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Bayern Munich','Munich','Bundesliga'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Cardiff','Cardiff','Championship'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Inter Milan','Milan','Serie A'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Manchester United','Manchester','Premiership'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Newcastle United','Newcastle','Premiership'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Real Madrid','Madrid','La Liga'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Roma','Rome','Serie A'); $$

INSERT INTO `club` (`clubName`,`location`,`league`) VALUES ('Spurs','London','Premiership'); $$

delimiter $$

CREATE TABLE `youthacademy` (

`academyID` int(11) NOT NULL,

`location` varchar(45) NOT NULL,

`associatedClub` varchar(45) NOT NULL,

PRIMARY KEY (`academyID`),

KEY `developPlayersIn\_idx` (`associatedClub`),

CONSTRAINT `developedBy` FOREIGN KEY (`associatedClub`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (1,'Africa','Newcastle United'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (2,'China','Newcastle United'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (3,'Brazil','Real Madrid'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (4,'France','Cardiff'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (5,'Iceland','Barcelona'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (6,'Portugal','Barcelona'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (7,'Spain','Barcelona'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (8,'Africa','Spurs'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (9,'South America','Real Madrid'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (10,'Canada','Real Madrid'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (11,'South America','Manchester United'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (12,'Asia','Cardiff'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (13,'Australia','Bayern Munich'); $$

INSERT INTO `youthacademy` (`academyID`,`location`,`associatedClub`) VALUES (14,'Iceland','Bayern Munich'); $$

CREATE TABLE `stadium` (

`stadiumName` varchar(45) NOT NULL,

`location` varchar(45) NOT NULL,

`capacity` int(11) NOT NULL,

`club` varchar(45) NOT NULL,

PRIMARY KEY (`stadiumName`),

KEY `homeGround\_idx` (`club`),

CONSTRAINT `homeGroundTo` FOREIGN KEY (`club`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('Allianz Arena','Munich',60000,'Bayern Munich'); $$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('Bernabeau','Madrid',80000,'Real Madrid'); $$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('Camp Nou','Barcelona',60000,'Barcelona'); $$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('Cardiff City Stadium','Cardiff',30000,'Cardiff'); $$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('Old Trafford','Mancester',83000,'Manchester United'); $$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('St James Park','Newcastle',50000,'Newcastle United'); $$

INSERT INTO `stadium` (`stadiumName`,`location`,`capacity`,`club`) VALUES ('White Hart Lane','London',35000,'Spurs'); $$

delimiter $$

CREATE TABLE `fixture` (

`date` date NOT NULL,

`time` time NOT NULL,

`homeTeam` varchar(45) NOT NULL,

`awayTeam` varchar(45) NOT NULL,

`match\_ID` varchar(45) NOT NULL,

PRIMARY KEY (`match\_ID`),

KEY `teamPlayingAtHome\_idx` (`homeTeam`),

KEY `awayTeamSelected\_idx` (`awayTeam`),

CONSTRAINT `awayTeamSelected` FOREIGN KEY (`awayTeam`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `homeTeamSelected` FOREIGN KEY (`homeTeam`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-05-05','19:45:00','Newcastle United','Manchester United','1'); $$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-05-05','19:45:00','Barcelona','Real Madrid','2'); $$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-09-09','19:45:00','Spurs','Manchester United','3'); $$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-11-10','15:00:00','Manchester United','Real Madrid','4'); $$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-11-10','15:00:00','Bayern Munich','Cardiff','5'); $$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2013-12-12','15:00:00','Manchester United','Barcelona','6'); $$

INSERT INTO `fixture` (`date`,`time`,`homeTeam`,`awayTeam`,`match\_ID`) VALUES ('2014-01-01','15:00:00','Cardiff','Barcelona','7'); $$

delimiter $$

CREATE TABLE `player` (

`player\_ID` int(11) NOT NULL,

`firstName` varchar(45) NOT NULL,

`lastName` varchar(45) NOT NULL,

`age` int(11) NOT NULL,

`position` varchar(45) NOT NULL,

`club` varchar(45) NOT NULL,

`contract\_Id` int(11) NOT NULL,

PRIMARY KEY (`player\_ID`),

KEY `playsFor\_idx` (`club`),

KEY `signedContract\_idx` (`contract\_Id`),

CONSTRAINT `playsForClub` FOREIGN KEY (`club`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `signedContract` FOREIGN KEY (`contract\_Id`) REFERENCES `contract` (`contractID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (1,'Yohan','Cabaye',26,'Midfield','Newcastle United',10001); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (2,'Tim','Krul',26,'Goalkeeper','Newcastle United',10002); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (3,'Danny','Simpson',25,'Defender','Newcastle United',10003); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (4,'Sammy','Ameobi',19,'Midfielder','Newcastle United',10004); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (5,'Pappis','Cisse',28,'Striker','Newcastle United',10005); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (6,'Tom','Cleverley',24,'Midfielder','Manchester United',10006); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (7,'Rio','Ferdinand',33,'Defender','Manchester United',10007); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (8,'Wayne','Rooney',29,'Striker','Manchester United',10008); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (9,'Craig','Bellamy',32,'Striker','Cardiff',10009); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (10,'Clint','Dempsey',29,'Striker','Spurs',10010); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (11,'Jermaine','Defoe',30,'Striker','Spurs',10011); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (12,'Lewis','Holtby',24,'Midfielder','Spurs',10012); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (13,'Michael','Dawson',29,'Defender','Spurs',10013); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (14,'Hugo','Lloris',26,'Goalkeeper','Spurs',10014); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (15,'Nemanja','Vidic',31,'Defender','Manchester United',10015); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (16,'Tom','Gardener',23,'Defender','Cardiff',10016); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (17,'James','Forrest',29,'Striker','Cardiff',10017); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (18,'Xabi','Alonso',31,'Midfielder','Real Madrid',10018); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (19,'Cristiano','Ronaldo',27,'Midfielder','Real Madrid',10019); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (20,'Sergio','Ramos',27,'Defender','Real Madrid',10020); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (21,'Lionel','Messi',26,'Midfielder','Barcelona',10021); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (22,'Andreas','Iniesta',27,'Midfielder','Barcelona',10022); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (23,'Gerrard','Pique',29,'Defender','Barcelona',10023); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (24,'Sergio','Busquetes',28,'Midfielder','Barcelona',10024); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (25,'Mario','Balotelli',25,'Striker','AC Milan',10025); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (26,'Paulo','Maldini',37,'Defender','AC Milan',10026); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (27,'Antonio','Fernandes',21,'Midfielder','AC Milan',10027); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (28,'Xavier','Ramieres',19,'Goalkeeper','AC Milan',10028); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (29,'Francesco','Totti',35,'Striker','Roma',10029); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (30,'Edgar','Davids',39,'Midfielder','Roma',10030); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (31,'Thiery','Henry',35,'Striker','Roma',10031); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (32,'Robert','Pires',34,'Midfielder','Roma',10032); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (33,'Emanuel','Petit',43,'Midfielder','Roma',10033); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (34,'Sean','Fanning',21,'Striker','Inter Milan',10034); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (35,'Jamie','Hegarty',20,'Defender','Inter Milan',10035); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (36,'Patrick','Dunne',30,'Goalkeeper','Inter Milan',10036); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (37,'Francis','Nesta',31,'Defender','Inter Milan',10037); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (38,'John','Risse',23,'Midfielder','Real Madrid',10038); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (39,'Andy','Serkis',31,'Defender','Real Madrid',10039); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (40,'Shay','Given',35,'Goalkeeper','Cardiff',10040); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (41,'Ian','Shawcross',31,'Defender','Cardiff',10041); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (42,'James','Richards',19,'Midfielder','Bayern Munich',10042); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (43,'Tim','Allen',18,'Defender','Bayern Munich',10043); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (44,'John','Stone',23,'Midfielder','Cardiff',10044); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (45,'Kieran','Sullivan',35,'Goalkeeper','Newcastle United',10045); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (46,'Bernard','Joyne',24,'Striker','Spurs',10046); $$

INSERT INTO `player` (`player\_ID`,`firstName`,`lastName`,`age`,`position`,`club`,`contract\_Id`) VALUES (47,'Harold','Nesbitt',19,'Sriker','Spurs',10047); $$

delimiter $$

CREATE TABLE `staff` (

`staff\_ID` int(11) NOT NULL,

`firstName` varchar(45) NOT NULL,

`lastName` varchar(45) NOT NULL,

`position` varchar(45) NOT NULL,

`age` int(11) NOT NULL,

`club` varchar(45) NOT NULL,

`contract\_Identifier` int(11) NOT NULL,

PRIMARY KEY (`staff\_ID`),

KEY `worksFor\_idx` (`club`),

KEY `putPenToPaperFor\_idx` (`contract\_Identifier`),

CONSTRAINT `employedBy` FOREIGN KEY (`club`) REFERENCES `club` (`clubName`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `putPenToPaperFor` FOREIGN KEY (`contract\_Identifier`) REFERENCES `contract` (`contractID`) ON DELETE NO ACTION ON UPDATE NO ACTION

) ENGINE=InnoDB DEFAULT CHARSET=latin1$$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (1,'Ian','Fleming','Manager',56,'Newcastle United',11101); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (2,'James','Duffy','Assistant Manager',54,'Newcastle United',11102); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (3,'Alex','Ferguson','Manager',76,'Manchester United',11103); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (4,'Lee','Carlisle','Assistant Manager',53,'Manchester United',11104); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (5,'Andres','Villas-Boas','Manager',33,'Spurs',11105); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (6,'Thomas','Ford','Assistant Manager',43,'Spurs',11106); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (7,'Edward','Jenkins','Manager',57,'Cardiff',11107); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (8,'John','Harte','Assistant Manager',78,'Cardiff',11108); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (9,'Richard','Cummins','Scout',45,'Cardiff',11109); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (10,'Karl','Summers','Scout',67,'Manchester United',11110); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (11,'Chico','Florres','Manager',78,'Barcelona',11111); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (12,'Toto','Maldini','Assistant Manager',65,'Barcelona',11112); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (13,'Jose','Mouriniho','Manager',56,'Real Madrid',11113); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (14,'Pep','Guardiola','Manager',43,'Bayern Munich',11114); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (15,'Tomas','Voric','Assistant Manager',76,'Bayern Munich',11115); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (16,'Ricardo','Gomes','Assistant Manager',54,'Real Madrid',11116); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (17,'Graeme','Carr','Scout',51,'Newcastle United',11117); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (18,'Ethan','Holden','Scout',66,'Cardiff',11118); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (19,'Sean','Collins','Scout',54,'Barcelona',11119); $$

INSERT INTO `staff` (`staff\_ID`,`firstName`,`lastName`,`position`,`age`,`club`,`contract\_Identifier`) VALUES (20,'Thomas','Douglas','Scout',45,'Bayern Munich',11120); $$

**Table Data**

**Club**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/Not Null** | **Constraints** | **Default** |
| clubName | VARCHAR | 45 | PK | Not Null | Unique |  |
| location | VARCHAR | 45 |  | Not Null |  |  |
| league | VARCHAR | 45 | FK | Not Null |  |  |

**Contract**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/Not Null** | **Constraints** |
| ContractID | INT | 11 | PK | Not Null | Unique |
| startDate | DATE | YYYY-MM-DD(8) |  | Not Null |  |
| endDate | DATE | YYYY-MM-DD(8) |  | Not Null |  |
| salary | INT | 11 |  | Not Null |  |

**Fixtures**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/Not Null** | **Constraints** |
| date | DATE | YYYY-MM-DD(8) |  | Not Null |  |
| time | TIME | TT-TT-TT(6) |  | Not Null |  |
| homeTeam | VARCHAR | 45 | FK | Not Null |  |
| awayTeam | VARCHAR | 45 | FK | Not Null |  |
| match\_ID | INT | 11 | PK | Nit Null | Unique |

**League**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/Not Null** | **Constraints** |
| leagueName | VARCHAR | 45 | PK | Not Null | Unique |
| Location | VARCHAR | 3 |  | Not Null |  |

**Player**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/ Not Null** | **Constraints** |
| Player\_ID | INT | 11 | PK | Not Null | Unique |
| firstName | VARCHAR | 45 |  | Not Null |  |
| lastName | VARCHAR | 45 |  | Not Null |  |
| age | INT | 11 |  | Not Null |  |
| position | VARCHAR | 45 |  | Not Null |  |
| club | VARCHAR | 45 | FK | Not Null |  |
| contract\_Id | INT | 11 | FK | Not Null | Unique |

**Stadium**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/Not Null** | **Constraints** |
| stadiumName | VARCHAR | 45 | PK | Not Null | Unique |
| location | VARCHAR | 45 |  | Not Null |  |
| capacity | INT | 11 |  | Not Null |  |
| club | VARCHAR | 45 | FK | Not null |  |

**Staff**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/ Not Null** | **Constraints** |
| staff\_ID | INT | 11 | PK | Not Null | Unique |
| firstName | VARCHAR | 45 |  | Not Null |  |
| lastName | VARCHAR | 45 |  | Not Null |  |
| age | INT | 11 |  | Not Null |  |
| position | VARCHAR | 45 |  | Not Null |  |
| club | VARCHAR | 45 | FK | Not Null |  |
| contract\_Identifier | INT | 11 | FK | Not Null | Unique |

**YouthAcademy**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Size** | **PK/FK** | **Null/ Not Null** | **Constraints** |
| academyID | INT | 11 | PK | Not Null | Unique |
| location | VARCHAR | 45 |  | Not Null |  |
| associatedClub | VARCHAR | 45 | FK | Not Null |  |