

Question 2

SQLQuery8.sql - D...9AQ2LD\hamza (52))*

```
Update Player set Age = Datediff(Year,Birthdate,Getdate())
SELECT * FROM Player
```

100 %

Results Messages

	PlayerID	FirstName	LastName	Nationality	Birthdate	Age	Position
1	1	TOLGA	ZENGİN	Turkey	1983-10-10 00:00:00	38	Goalkeeper
2	2	OLCAY	ŞAHAN	Turkey	1987-05-26 00:00:00	34	Midfielder
3	3	ATIBA	HUTCHINSON	Canada	1983-02-08 00:00:00	38	Midfielder
4	4	VELİ	KAVLAK	Turkey	1988-11-03 00:00:00	33	Midfielder
5	5	HUGO MIGUEL	PEREIRA DE ALMEIDA	Portugal	1984-05-23 00:00:00	37	Forward
6	6	RAMON	DE MORAES MOTTA	Brazil	1988-05-06 00:00:00	33	Defender
7	7	GÖKHAN	TÖRE	Turkey	1992-01-20 00:00:00	29	Midfielder
8	8	OĞUZHAN	ÖZYAKUP	Turkey	1992-09-23 00:00:00	29	Midfielder
9	9	SERDAR	KURTULUŞ	Turkey	1987-07-23 00:00:00	34	Defender
10	10	PEDRO CAMILO	FRANCO ULLOA	Colombia	1991-04-23 00:00:00	30	Defender
11	11	ERSAN ADEM	GÜLÜM	Turkey	1987-05-17 00:00:00	34	Defender
12	12	MANUEL HENRIQUE	TAVARES FERNANDES	Portugal	1986-02-05 00:00:00	35	Midfielder
13	13	NECİP	UYŞAL	Turkey	1991-01-24 00:00:00	30	Midfielder
14	14	TOMAS	SIVOK	Czech Republic	1983-09-15 00:00:00	38	Defender
15	15	JULIEN	ESCUDE	France	1979-08-17 00:00:00	42	Defender
16	16	DANY ACHILLE	NOUNKEU TCHOUNKEU	France	1986-04-11 00:00:00	35	Defender
17	17	JERMAINE JUNIOR	JONES	Germany	1981-11-03 00:00:00	40	Midfielder
18	18	MUSTAFA	PEKTEMEK	Turkey	1988-08-11 00:00:00	33	Forward
19	19	FILIP	HOLOSKO	Slovakia	1984-01-17 00:00:00	37	Forward

Query executed successfully. DESKTOP-O9AQ2LD (15.0 RTM) DESKTOP-O9AQ2LD\hamza ... TurkishSuperLeague 00:00:00 516 rows

Question 3

SQLQuery9.sql - D...9AQ2LD\hamza (56)) SQLQuery9.sql - D...9AQ2LD\hamza (52))*

```
SELECT P.PlayerID, P.FirstName + ' '+P.LastName
FROM Player P INNER JOIN PlayerTeam PT ON P.PlayerID = PT.PlayerID
WHERE PT.TeamID = 1 AND P.FirstName NOT LIKE '%nec%' AND P.Age < (SELECT AVG(AGE) FROM Player)
```

100 %

Results Messages

	PlayerID	(No column name)
1	7	GÖKHAN TÖRE
2	8	OĞUZHAN ÖZYAKUP
3	10	PEDRO CAMILO FRANCO ULLOA
4	20	İSMAİL KÖYBAŞI
5	22	ÖMER HASAN ŞİŞMANOĞLU
6	23	KERİM KOYUNLU
7	24	MUHAMMED DEMİRCİ
8	26	BRUNO FERREIRA BONFIM
9	31	EMRE TALİ
10	33	GÜNAY GÜVENÇ

Query executed successfully. DESKTOP-O9AQ2LD (15.0 RTM) DESKTOP-O9AQ2LD\hamza ... TurkishSuperLeague 00:00:00 10 rows

Question 4

SQLQuery9.sql - D:\9AQ2LD\hamza (56) SQLQuery9.sql - D:\9AQ2LD\hamza (52)*

```

UPDATE T1
SET T1.City = NewData.NewValue
FROM Team T1
INNER JOIN (
SELECT NG.TeamID, NG.City+' #p'+CAST(NP.A AS varchar(5))+ ' #g'+CAST(NG.NG AS varchar(5)) AS NewValue
FROM Team T INNER JOIN (
SELECT T.TeamID,Name,City,COUNT(*) AS NG
FROM
Goals G LEFT JOIN Match M ON G.MatchID = M.MatchID
INNER JOIN Player P ON G.PlayerID = P.PlayerID INNER JOIN PlayerTeam PT ON
P.PlayerID = PT.PlayerID INNER JOIN Team T ON PT.TeamID =T.TeamID
WHERE PT.Season = '13-14' AND G.IsOwnGoal = 0
GROUP BY T.TeamID,Name,City
) NG ON
T.TeamID = NG.TeamID INNER JOIN (
SELECT TeamID ,COUNT(PT.PlayerID) AS A FROM PlayerTeam PT INNER JOIN Player P ON PT.PlayerID = P.PlayerID
WHERE PT.Season = '13-14' GROUP BY TeamID
) AS NP ON
T.TeamID = NP.TeamID
) NewData ON T1.TeamID = NewData.TeamID
  
```

100 %

Results Messages

	TeamID	Name	City
1	1	Beşiktaş	İstanbul #p33 #g53
2	2	Fenerbahçe	İstanbul #p27 #g72
3	3	Galatasaray	İstanbul #p33 #g56
4	4	Trabzonspor	Trabzon #p26 #g53
5	5	Akhisar Belediye	Manisa #p31 #g44
6	6	Bursaspor	Bursa #p32 #g38
7	7	Çaykur Rizespor	Rize #p30 #g40
8	8	Elazığspor	Elazığ #p31 #g35
9	9	Edirnespor	Edirne #p28 #g33

Query executed successfully. DESKTOP-09AQ2LD (15.0 RTM) DESKTOP-09AQ2LD\hamza ... TurkishSuperLeague 00:00:00 18 rows

Question 5

SQLQuery9.sql - D:\9AQ2LD\hamza (56) SQLQuery9.sql - D:\9AQ2LD\hamza (52)*

```

SELECT TOP 10 P.PlayerID, P.FirstName,P.LastName, P.Goals, TM.totalMatches-P.matches AS matchesNotScored, P.avgGoal From
(SELECT PG.PlayerID,PG.FirstName,PG.LastName,PT.TeamID,COUNT(*) matches, SUM(PG.Goals) Goals, (SUM(PG.Goals)*1.0 / COUNT(*)) avgGoal From
(SELECT P1.PlayerID,P1.FirstName,P1.LastName,M.MatchID,COUNT(*) Goals From Match M INNER JOIN Goals G ON M.MatchID=G.MatchID INNER JOIN
PLAYER P1 ON P1.PlayerID = G.PlayerID GROUP BY P1.PlayerID,P1.FirstName,P1.LastName,M.MatchID ) PG INNER JOIN PlayerTeam PT ON
PG.PlayerID=PT.PlayerID where PT.Season='13-14'
group by PG.PlayerID,PG.FirstName,PG.LastName,PT.TeamID) P
LEFT OUTER JOIN ( SELECT T.TeamID,count(*) totalMatches FROM Match M INNER JOIN Team T
on M.HomeTeamID=T.TeamID or M.VisitingTeamID=T.TeamID Group by T.TeamID) TM on P.TeamID=TM.TeamID
ORDER BY P.Goals DESC
  
```

100 %

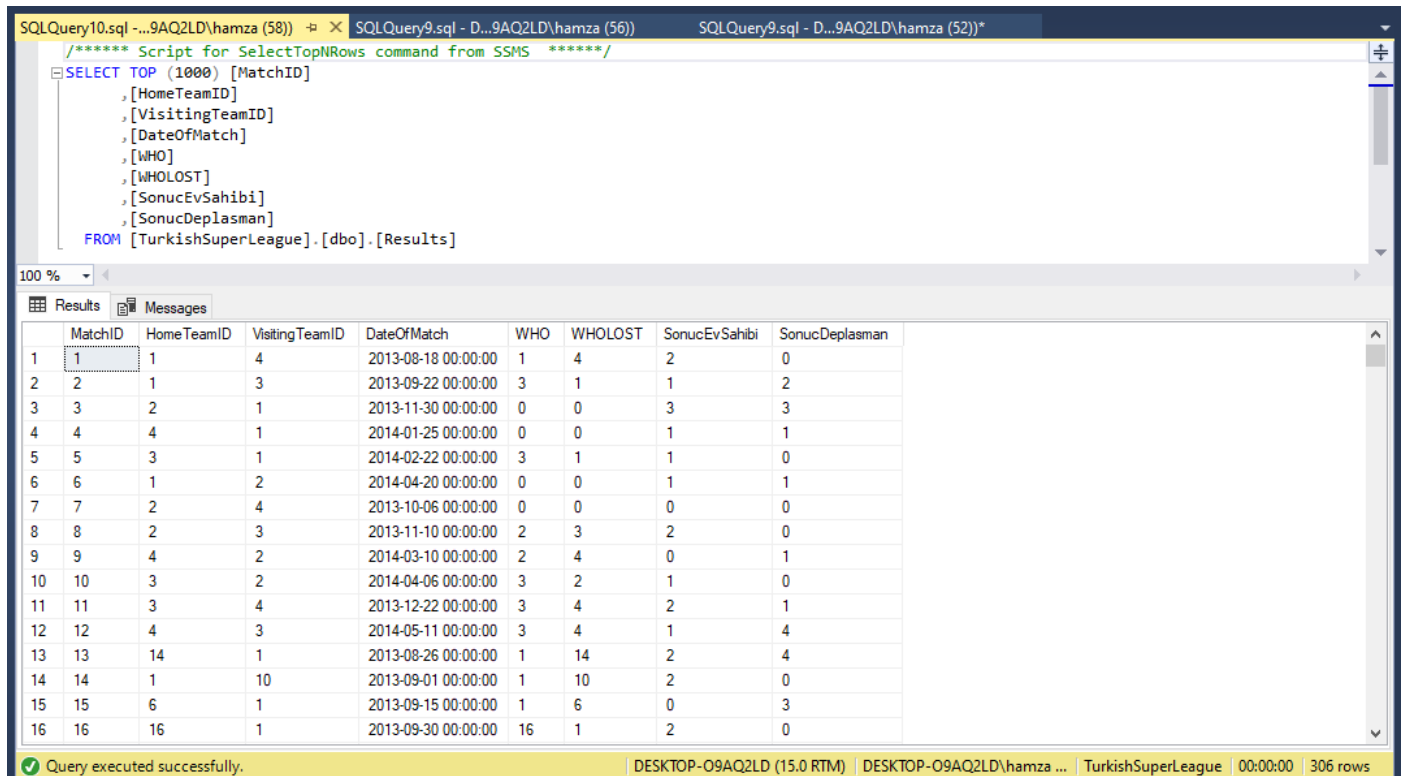
Results Messages

	PlayerID	FirstName	LastName	Goals	matchesNotScored	avgGoal
1	453	AATIF	CHAHECHOUHE	18	21	1.384615384615
2	346	EZEQUIEL OSCAR	SCARIONE	16	19	1.066666666666
3	60	BURAK	YILMAZ	16	19	1.066666666666
4	38	MOUSSA	SOW	15	21	1.153846153846
5	99	PAULO HENRIQUE	CARNEIRO FILHO	14	21	1.076923076923
6	482	THEOFANIS	GKEKAS	14	24	1.400000000000
7	5	HUGO MIGUEL	PEREIRA DE ALMEIDA	13	23	1.181818181818
8	268	CENK	TOSUN	13	22	1.083333333333
9	296	SORIN BOGDAN	STANCU	13	23	1.181818181818
10	212	DENİZ	YILMAZ	12	24	1.200000000000

Question 6

I have created a view to find the teams playing the matches, determine who won, determine the losing team, and easily access how many goals the loser or winner has scored.

View Name: dbo.Results



The screenshot shows a SQL Server query window with the following SQL code:

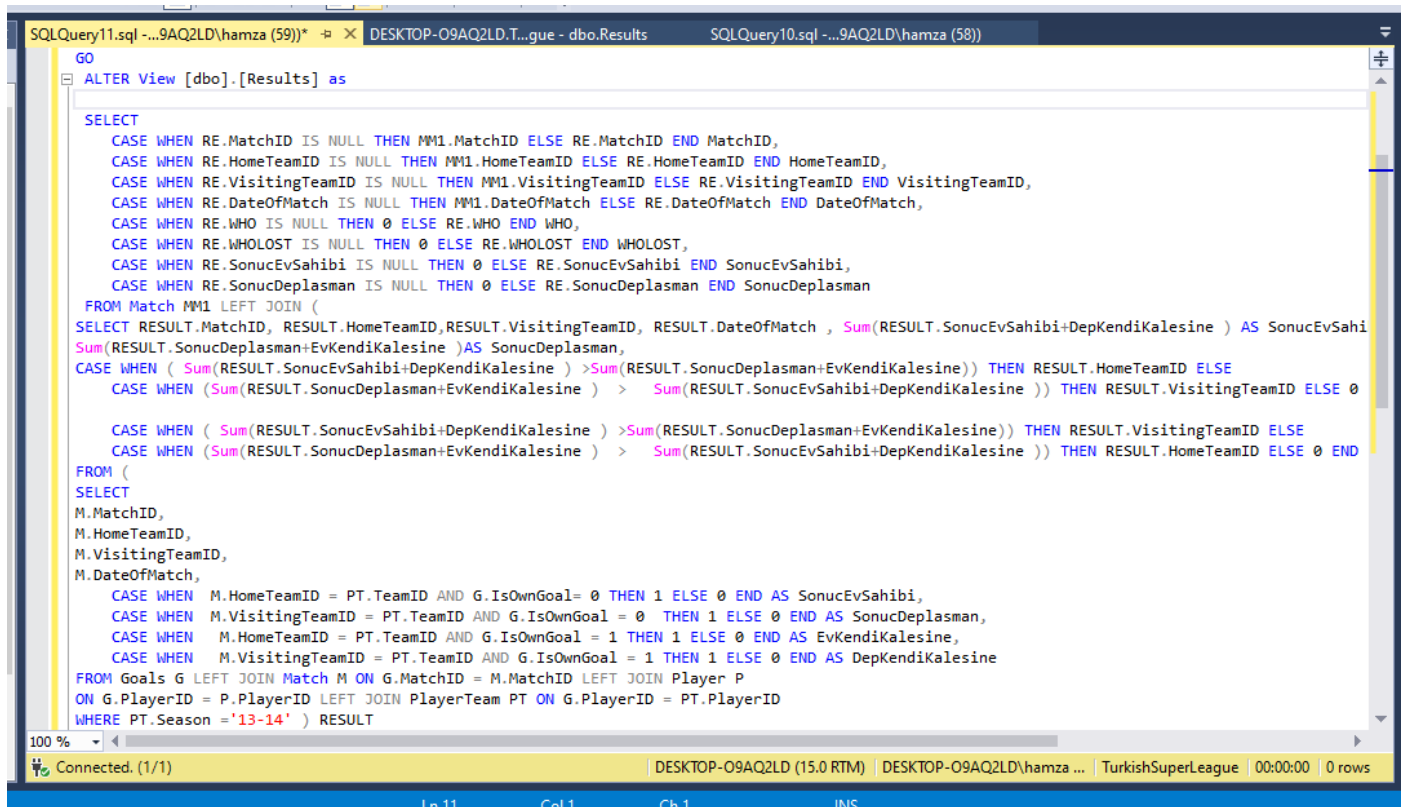
```
SELECT TOP (1000) [MatchID]
, [HomeTeamID]
, [VisitingTeamID]
, [DateOfMatch]
, [WHO]
, [WHOLOST]
, [SonucEvSahibi]
, [SonucDeplasman]
FROM [TurkishSuperLeague].[dbo].[Results]
```

The results are displayed in a table with the following columns: MatchID, HomeTeamID, VisitingTeamID, DateOfMatch, WHO, WHOLOST, SonucEvSahibi, and SonucDeplasman. The table contains 16 rows of data.

MatchID	HomeTeamID	VisitingTeamID	DateOfMatch	WHO	WHOLOST	SonucEvSahibi	SonucDeplasman
1	1	4	2013-08-18 00:00:00	1	4	2	0
2	1	3	2013-09-22 00:00:00	3	1	1	2
3	2	1	2013-11-30 00:00:00	0	0	3	3
4	4	1	2014-01-25 00:00:00	0	0	1	1
5	3	1	2014-02-22 00:00:00	3	1	1	0
6	1	2	2014-04-20 00:00:00	0	0	1	1
7	2	4	2013-10-06 00:00:00	0	0	0	0
8	2	3	2013-11-10 00:00:00	2	3	2	0
9	4	2	2014-03-10 00:00:00	2	4	0	1
10	3	2	2014-04-06 00:00:00	3	2	1	0
11	3	4	2013-12-22 00:00:00	3	4	2	1
12	4	3	2014-05-11 00:00:00	3	4	1	4
13	14	1	2013-08-26 00:00:00	1	14	2	4
14	1	10	2013-09-01 00:00:00	1	10	2	0
15	6	1	2013-09-15 00:00:00	1	6	0	3
16	16	1	2013-09-30 00:00:00	16	1	2	0

In order to create the scoreboard, I obtained the desired data by repeatedly accessing this view for each column.

View Query



The screenshot shows a SQL Server query window with the following SQL code:

```
GO
ALTER View [dbo].[Results] as
SELECT
CASE WHEN RE.MatchID IS NULL THEN MM1.MatchID ELSE RE.MatchID END MatchID,
CASE WHEN RE.HomeTeamID IS NULL THEN MM1.HomeTeamID ELSE RE.HomeTeamID END HomeTeamID,
CASE WHEN RE.VisitingTeamID IS NULL THEN MM1.VisitingTeamID ELSE RE.VisitingTeamID END VisitingTeamID,
CASE WHEN RE.DateOfMatch IS NULL THEN MM1.DateOfMatch ELSE RE.DateOfMatch END DateOfMatch,
CASE WHEN RE.WHO IS NULL THEN 0 ELSE RE.WHO END WHO,
CASE WHEN RE.WHOLOST IS NULL THEN 0 ELSE RE.WHOLOST END WHOLOST,
CASE WHEN RE.SonucEvSahibi IS NULL THEN 0 ELSE RE.SonucEvSahibi END SonucEvSahibi,
CASE WHEN RE.SonucDeplasman IS NULL THEN 0 ELSE RE.SonucDeplasman END SonucDeplasman
FROM Match MM1 LEFT JOIN (
SELECT RESULT.MatchID, RESULT.HomeTeamID, RESULT.VisitingTeamID, RESULT.DateOfMatch, Sum(RE.SonucEvSahibi+DepKendiKalesine) AS SonucEvSahi
Sum(RE.SonucDeplasman+EvKendiKalesine) AS SonucDeplasman,
CASE WHEN ( Sum(RE.SonucEvSahibi+DepKendiKalesine) > Sum(RE.SonucDeplasman+EvKendiKalesine)) THEN RESULT.HomeTeamID ELSE
CASE WHEN ( Sum(RE.SonucDeplasman+EvKendiKalesine) > Sum(RE.SonucEvSahibi+DepKendiKalesine) ) THEN RESULT.VisitingTeamID ELSE 0
CASE WHEN ( Sum(RE.SonucEvSahibi+DepKendiKalesine) > Sum(RE.SonucDeplasman+EvKendiKalesine)) THEN RESULT.VisitingTeamID ELSE
CASE WHEN ( Sum(RE.SonucDeplasman+EvKendiKalesine) > Sum(RE.SonucEvSahibi+DepKendiKalesine) ) THEN RESULT.HomeTeamID ELSE 0 END
FROM (
SELECT
M.MatchID,
M.HomeTeamID,
M.VisitingTeamID,
M.DateOfMatch,
CASE WHEN M.HomeTeamID = PT.TeamID AND G.IsOwnGoal= 0 THEN 1 ELSE 0 END AS SonucEvSahibi,
CASE WHEN M.VisitingTeamID = PT.TeamID AND G.IsOwnGoal= 0 THEN 1 ELSE 0 END AS SonucDeplasman,
CASE WHEN M.HomeTeamID = PT.TeamID AND G.IsOwnGoal= 1 THEN 1 ELSE 0 END AS EvKendiKalesine,
CASE WHEN M.VisitingTeamID = PT.TeamID AND G.IsOwnGoal= 1 THEN 1 ELSE 0 END AS DepKendiKalesine
FROM Goals G LEFT JOIN Match M ON G.MatchID = M.MatchID LEFT JOIN Player P
ON G.PlayerID = P.PlayerID LEFT JOIN PlayerTeam PT ON G.PlayerID = PT.PlayerID
WHERE PT.Season = '13-14' ) RESULT

```

Some part of procedure query

```
SQLQuery13.sql - ...9AQ2LD\hamza (52)) *
GAA.Ga,
(GFT.GF- GAA.Ga) AS GD,
((WW.W * 3 ) + TIESS.TIES *1 ) AS Pts
FROM Team TN LEFT JOIN (
    SELECT WHO,COUNT(*) AS W FROM Results Where DateOfMatch < @date GROUP BY WHO
) AS WW ON TN.TeamID = WW.WHO LEFT JOIN (
    SELECT TIE.TeamID, Sum(TIE.RR1+TIE.RR2) AS TIES FROM (
    SELECT T.TeamID, CASE WHEN R1.RR1 IS NULL THEN 0 ELSE R1.RR1 END AS RR1,
    CASE WHEN R2.RR2 IS NULL THEN 0 ELSE R2.RR2 END AS RR2
    FROM TEAM T LEFT JOIN (

        SELECT R.HomeTeamID AS TEAMID, COUNT(*) AS RR1 FROM Results R WHERE R.WHO = 0 AND R.DateOfMatch < @date GROUP BY R.HomeTeamID

    ) R1 ON T.TeamID = R1.TeamID LEFT JOIN (

        SELECT R.VisitingTeamID AS TEAMID,COUNT(*) AS RR2 FROM Results R WHERE R.WHO = 0 AND R.DateOfMatch < @date GROUP BY R.VisitingTeamID

    ) R2 ON T.TeamID=R2.TeamID ) AS TIE
GROUP BY TIE.TeamID )AS TIESS ON TN.TeamID = TIESS.TeamID

LEFT JOIN (
    SELECT WHOLOST,COUNT(*) AS L FROM Results R WHERE R.DateOfMatch < @date GROUP BY WHOLOST ) LL ON TN.TeamID = LL.WHOLOST LEFT JOIN (
    SELECT T.TeamID,COUNT(*) AS GP FROM Match M INNER JOIN TEAM T ON M.HomeTeamID = T.TeamID OR M.VisitingTeamID = T.TeamID WHERE
    GROUP BY T.TeamID
) GPP ON TN.TeamID = GPP.TeamID LEFT JOIN (

    SELECT T123.TeamID,Sum(A1.SS+A2.SS) AS GF FROM Team T123 INNER JOIN (
        SELECT RR.HomeTeamID AS ID,Sum(RR.SonucEvSahibi) AS SS FROM Results RR WHERE RR.DateOfMatch < @date GROUP BY RR.HomeTeamID ) A1
        (
        SELECT RR1.VisitingTeamID AS ID ,Sum(RR1.SonucDeplasman) AS SS FROM Results RR1 WHERE RR1.DateOfMatch < @date GROUP BY RR1.VisitingTeamID
        ) AS A2 ON T123.TeamID = A2.ID
    GROUP BY T123.TeamID ) GFT ON TN.TeamID = GFT.TeamID LEFT JOIN (
```

Results

```
SQLQuery5.sql - D...9AQ2LD\hamza (52)) *
exec sp_GetStandingsUpToDate '2014-01-01'
```

	POS	Name	GP	W	T	L	GF	Ga	GD	Pts
1	1	Fenerbahçe	17	13	2	2	43	19	24	41
2	2	Galatasaray	17	9	6	2	27	18	9	33
3	3	Beşiktaş	16	8	5	3	29	16	13	29
4	4	Sivasspor	17	9	2	6	31	23	8	29
5	5	Kasımpaşa	16	8	4	4	30	19	11	28
6	6	Eskişehirspor	17	8	3	6	22	15	7	27
7	7	Trabzonspor	17	8	3	6	25	21	4	27
8	8	Akhisar Belediye	17	7	4	6	21	21	0	25
9	9	Kardemir Karabükspor	17	7	4	6	15	18	-3	25
10	10	Bursaspor	17	6	6	5	19	18	1	24
11	11	Gençlerbirliği	17	6	3	8	18	20	-2	21
12	12	Gaziantepspor	17	6	3	8	22	31	-9	21
13	13	Torku Konyaspor	17	6	2	9	22	26	-4	20
14	14	Çaykur Rizespor	17	5	4	8	19	24	-5	19
15	15	Medical Park Antaly...	17	4	5	8	19	23	-4	17
16	16	Elazığspor	17	4	1	1..	19	39	-20	13
17	17	Kayserispor	17	2	6	9	13	27	-14	12
18	18	Kayseri Erciyesspor	17	3	3	1..	12	28	-16	12

Note: I updated some of the match dates as I thought they were wrong.

update Match set DateOfMatch = '2014-02-17' where MatchID = 225

update Match set DateOfMatch = '2014-04-05' where MatchID = 306

update Match set DateOfMatch = '2014-04-12' where MatchID = 93

update Match set DateOfMatch = '2014-04-19' where MatchID = 94

update Match set DateOfMatch = '2014-05-17' where MatchID = 174

update Match set DateOfMatch = '2014-05-10' where MatchID = 263