



T.C.

MARMARA UNIVERSITY

FACULTY of ENGINEERING

COMPUTER ENGINEERING DEPARTMENT

CSE3055

Database Systems

Homework #3

150116034 – Enes Garip

Question 2

```
USE hw3_150116034;
-- Question 2
UPDATE Player SET Age = DATEDIFF(YEAR, Birthdate, getdate());
-- Question 3
SELECT p.PlayerID, (p.FirstName + ' ' + p.LastName) AS FullName FROM Player p, PlayerTeam pt, Team t
WHERE p.PlayerID = pt.PlayerID AND pt.TeamID = t.TeamID AND p.Age < (SELECT AVG(Age) FROM Player) AND p.FirstName NOT LIKE '%nec%' AND t.Name = 'Besiktas';
-- Question 4
UPDATE Team SET Team.City = team.City + ' #p' + CAST(playersCountTeam.playersCount AS NVARCHAR) + ' #g' + CAST(goalCount.goal AS NVARCHAR)
FROM
    (SELECT t.TeamID, t.City FROM Team t) AS team,
    (SELECT pt.TeamID, COUNT(pt.TeamID) AS playersCount FROM PlayerTeam pt WHERE pt.Season = '13-14' GROUP BY pt.TeamID) AS playersCountTeam,
    (SELECT t.TeamID, COUNT(t.teamID) AS goal FROM Goals g, PlayerTeam pt, Team t WHERE pt.Season = '13-14' AND pt.TeamID = t.TeamID AND pt.PlayerID = g.PlayerID GROUP BY t.TeamID) AS goalCount
WHERE team.TeamID = playersCountTeam.TeamID AND team.TeamID = goalCount.TeamID AND Team.TeamID = team.TeamID
-- Question 5
SELECT goalsCount.PlayerID, goalsCount.FirstName, goalsCount.LastName, goalsCount.goalCount, (totalMatch.playedMatch - totalMatchWithGoal.matchWithGoal) AS WithoutScore,
CAST((1.0*goalsCount.goalCount/totalMatchWithGoal.matchWithGoal) AS DECIMAL(3,2)) AS Average
FROM
    (SELECT TOP 10 g.PlayerID, p.FirstName, p.LastName, COUNT(g.PlayerID) AS goalCount
    FROM Goals g, Player p
    WHERE p.PlayerID = g.PlayerID
```

Question 3

```
-- Question 3
SELECT p.PlayerID, (p.FirstName + ' ' + p.LastName) AS FullName FROM Player p, PlayerTeam pt, Team t
WHERE p.PlayerID = pt.PlayerID AND pt.TeamID = t.TeamID AND p.Age < (SELECT AVG(Age) FROM Player) AND p.FirstName NOT LIKE '%nec%' AND t.Name = 'Besiktas';
-- Question 4
UPDATE Team SET Team.City = team.City + ' #p' + CAST(playersCountTeam.playersCount AS NVARCHAR) + ' #g' + CAST(goalCount.goal AS NVARCHAR)
FROM
    (SELECT t.TeamID, t.City FROM Team t) AS team,
    (SELECT pt.TeamID, COUNT(pt.TeamID) AS playersCount FROM PlayerTeam pt WHERE pt.Season = '13-14' GROUP BY pt.TeamID) AS playersCountTeam,
    (SELECT t.TeamID, COUNT(t.teamID) AS goal FROM Goals g, PlayerTeam pt, Team t WHERE pt.Season = '13-14' AND pt.TeamID = t.TeamID AND pt.PlayerID = g.PlayerID GRO
WHERE team.TeamID = playersCountTeam.TeamID AND team.TeamID = goalCount.TeamID AND Team.TeamID = team.TeamID
-- Question 5
SELECT goalsCount.Pl
me, goalsCount.LastName, goalsCount.goalCount, (totalMatch.playedMatch - totalMatchWithGoal.matchWithGoal) AS WithoutSco
CAST((1.0*goalsCount.goalCount/totalMatchWithGoal.matchWithGoal) AS DECIMAL(3,2)) AS Average
FROM
    (SELECT TOP 10 g.PlayerID, p.FirstName, p.LastName, COUNT(g.PlayerID) AS goalCount
    FROM Goals g, Player p
    WHERE p.PlayerID = g.PlayerID
```

Question 4

TeamID	Name	City
1	Besiktas	Istanbul #p33 #g53
2	Fenerbahçe	Istanbul #p27 #g72
3	Galatasaray	Istanbul #p33 #g57
4	Trabzonspor	Trabzon #p26 #g54
5	Akhisar Belediye	Manisa #p31 #g46
6	Bursaspor	Bursa #p32 #g39
7	Caykur Rizespor	Rize #p30 #g42
8	Erzurumspor	Erzurum #p31 #g37
9	Eskişehirspor	Eskişehir #p29 #g32
10	Gaziantepspor	Gaziantep #p28 #g40
11	Gençlerbirliği	Ankara #p26 #g40
12	Kardemir Karabükspor	Karabük #p29 #g31
13	Kasımpaşa	Istanbul #p24 #g57
14	Kayseri Erciyesspor	Kayseri #p29 #g35
15	Kayserispor	Kayseri #p29 #g31
16	Medical Park Antalyaspor	Antalya #p28 #g36
17	Sivasspor	Sivas #p26 #g58
18	Torku Konyaspor	Konya #p25 #g47

Question 5

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-- Question 5
SELECT goalsCount.PlayerID, goalsCount.FirstName, goalsCount.LastName, goalsCount.goalCount, (totalMatch.playedMatch - totalMatchWithGoal.matchWithGoal) AS WithoutScore,
CAST((1.0 * goalsCount.goalCount / totalMatchWithGoal.matchWithGoal) AS DECIMAL(3,2)) AS Average
FROM
(SELECT TOP 10 g.PlayerID, p.FirstName, p.LastName, COUNT(g.PlayerID) AS goalCount
FROM Goals g, Player p
WHERE p.PlayerID = g.PlayerID
GROUP BY g.PlayerID, p.FirstName, p.LastName
ORDER BY COUNT(g.PlayerID) DESC) AS goalsCount,
SELECT COUNT(*) AS playedMatch, pt.PlayerID
FROM PlayerTeam pt, Match m
WHERE (pt.TeamID = m.HomeTeamID OR pt.TeamID = m.VisitingTeamID) AND pt.Season = '13-14'
GROUP BY pt.PlayerID) AS totalMatch,
SELECT g.PlayerID, COUNT(DISTINCT g.MatchID) AS matchWithGoal
FROM Goals g
GROUP BY g.PlayerID) AS totalMatchWithGoal
WHERE goalsCount.PlayerID = totalMatch.PlayerID AND totalMatch.PlayerID = totalMatchWithGoal.PlayerID
ORDER BY goalCount DESC
```

00 %

Results Messages

	PlayerID	FirstName	LastName	goalCount	WithoutScore	Average
1	453	AATIF	CHAECHOUHE	18	21	1.38
2	60	BURAK	YILMAZ	16	19	1.07
3	348	EZEQUIEL OSCAR	SCARIONE	16	19	1.07
4	38	MOUSSA	SOW	15	21	1.15
5	99	PAULO HENRIQUE	CARNEIRO FILHO	14	21	1.08
6	482	THEOFANIS	GKEKAS	14	24	1.40
7	5	HUGO MIGUEL	PEREIRA DE ALMEIDA	13	23	1.18
8	268	CENK	TOSUN	13	22	1.08
9	296	SORIN BOGDAN	STANCU	13	23	1.18
10	41	EMMANUEL CHINENYE	EMENIKE	12	24	1.20

Question 6

```
EXEC sp_GetStandingsUpToDate '2014-07-31'
```

100 %

Results Messages

	matchID	winnerID	loserID
1	1	1	4
2	2	3	1
3	3	0	0
4	4	0	0
5	5	3	1
6	6	0	0
7	7	0	0
8	8	2	3
9	9	2	4
10	10	3	2
11	11	3	4
12	12	3	4
13	13	1	14

	matchID	homeTeamID	homeTeamGoal	visitingTeamID	visitingTeamGoal
1	1	1	2	4	0
2	2	1	1	3	2
3	3	2	3	1	3
4	4	4	1	1	1
5	5	3	1	1	0
6	6	1	1	2	1
7	7	2	0	4	0
8	8	2	2	3	0
9	9	4	0	2	1
10	10	3	1	2	0
11	11	3	2	4	1
12	12	4	1	3	4

	Name	GP	W	T	L	GF	GA	GD	Pts
1	Fenerbahçe	34	23	5	6	72	33	39	74
2	Galatasaray	34	18	11	5	58	33	25	65
3	Beyliktaş	34	17	11	6	53	32	21	62
4	Sivasspor	34	16	5	1	60	55	5	53
5	Trabzonspor	34	14	11	9	53	39	14	53
6	Kasımpaşa	34	13	12	9	56	38	18	51
7	Kardemir	34	13	10	1	31	35	-4	49
8	Bursaspor	34	12	10	1	40	45	-5	46
9	Çaykur Rız.	34	11	12	1	41	42	-1	45
10	Gençlerbir.	34	13	6	1	39	43	-4	45
11	Akhisar Be.	34	12	8	1	44	55	-11	44
12	Eskişehir.	34	10	12	1	33	35	-2	42
13	Torku Kon.	34	11	9	1	48	44	4	42
14	Kayseri Er.	34	10	7	1	34	51	-17	37
15	Gaziantep.	34	10	7	1	38	57	-19	37
16	Elazığspor	34	10	4	2	38	61	-23	34
17	Medical P.	34	6	12	1	38	47	-9	30
18	Kayserispor	34	7	8	1	30	56	-26	29