T.C.

MARMARA UNIVERSITY

FACULTY of ENGINEERING

COMPUTER ENGINEERING DEPARTMENT

CSE 3055 – Database Systems Homework V Report

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I hereby swear that the work done on this homework is totally my own; and on my honor, I have neither given nor received any unauthorized and/or inappropriate assistance for this homework. I understand that by the school code, violation of these principles will lead to a zero grade and is subject to harsh discipline issues.

04 December 2020

2)

```
-- first query
UPDATE dbo.Player
SET Age= abs(checksum(NewId()) % 45) + 18
```

Output:

```
(516 rows affected)

Completion time: 2020-12-04T23:30:36.6389494+03:00
```

3)

```
-- second query
Select p.PlayerID, p.FirstName + ' ' + p.LastName as FullName
From dbo.Player p inner join dbo.PlayerTeam pt on p.PlayerID=pt.PlayerID
Where p.FirstName not like '%nec%' and pt.TeamID=1
Group By p.PlayerID, p.FirstName + ' ' + p.LastName, p.Age
Having p.Age < (Select AVG(p2.Age) From dbo.Player p2)
```

	PlayerID	FullName
1	1	TOLGA ZENGİN
2	4	VELİ KAVLAK
3	5	HUGO MIGUEL PEREIRA DE ALMEIDA
4	7	GÖKHAN TÖRE
5	10	PEDRO CAMILO FRANCO ULLOA
6	14	TOMAS SIVOK
7	17	JERMAINE JUNIOR JONES
8	20	İSMAİL KÖYBAŞI
9	21	UĞUR BORAL
10	26	BRUNO FERREIRA BONFIM
11	28	CENK GÖNEN
12	32	SEZER ÖZTÜRK
13	33	GÜNAY GÜVENÇ
14	42	EGEMEN KORKMAZ

4)

```sql
-- third query
-- here i failed to update city but believing that selected right informations
Select t.City + ' #p' + CAST(Count(*) as varchar) + ' #g' + CAST(pg.numberOfGoals as varchar)
From Team t inner join PlayerTeam pt on t.TeamID=pt.TeamID
        inner join (Select p2.PlayerID, Count(*) numberOfGoals
                    From Player p2 inner join Goals g on p2.PlayerID=g.PlayerID
                    Group by p2.PlayerID) pg on pg.PlayerID=pt.PlayerID
Group By t.City, pg.numberOfGoals
```

	Results	Message							
	(No column name)		23	Konya #p2 #g2	45	Kayseri #p5 #g4	67	Sivas #p1 #g9
1	Ankara #p3 #g1		24	Manisa #p1 #g2	46	Rize #p2 #g4	68	Antalya #p1 #g10
2	Antalya #p4 #g1		25	Rize #p4 #g2	47	Sivas #p2 #g4	69	Gaziantep #p1 #g...
3	Bursa #p5 #g1		26	Sivas #p1 #g2	48	Trabzon #p3 #g4	70	İstanbul #p3 #g10
4	Elazığ #p6 #g1		27	Trabzon #p3 #g2	49	Eskişehir #p2 #g5	71	Trabzon #p1 #g10
5	Eskişehir #p4 #g1		28	Ankara #p4 #g3	50	İstanbul #p3 #g5	72	Bursa #p1 #g11
6	Gaziantep #p8 #g1		29	Antalya #p4 #g3	51	Konya #p2 #g5	73	Kayseri #p1 #g11
7	İstanbul #p21 #g1		30	Bursa #p3 #g3	52	Rize #p1 #g5	74	Rize #p1 #g11
8	Karabük #p9 #g1		31	Elazığ #p4 #g3	53	Trabzon #p2 #g5	75	Elazığ #p1 #g12
9	Kayseri #p10 #g1		32	Eskişehir #p2 #g3	54	Ankara #p2 #g6	76	İstanbul #p2 #g12
10	Konya #p4 #g1		33	Gaziantep #p1 #g3	55	Antalya #p1 #g6	77	Manisa #p2 #g12
11	Manisa #p3 #g1		34	İstanbul #p9 #g3	56	Elazığ #p1 #g6	78	Sivas #p1 #g12
12	Rize #p4 #g1		35	Kayseri #p3 #g3	57	İstanbul #p4 #g6	79	Ankara #p1 #g13
13	Sivas #p3 #g1		36	Konya #p3 #g3	58	Kayseri #p2 #g6	80	Gaziantep #p1 #g...
14	Trabzon #p6 #g1		37	Manisa #p3 #g3	59	Konya #p1 #g6	81	İstanbul #p1 #g13
15	Ankara #p3 #g2		38	Rize #p2 #g3	60	Sivas #p1 #g6	82	Konya #p1 #g14
16	Bursa #p7 #g2		39	Trabzon #p2 #g3	61	Trabzon #p1 #g7	83	Trabzon #p1 #g14
17	Elazığ #p1 #g2		40	Antalya #p1 #g4	62	Gaziantep #p1 #g8	84	İstanbul #p1 #g15
18	Eskişehir #p2 #g2		41	Bursa #p1 #g4	63	İstanbul #p2 #g8	85	Eskişehir #p1 #g16
19	Gaziantep #p4 #g2		42	Eskişehir #p2 #g4	64	Manisa #p1 #g8	86	İstanbul #p3 #g16
20	İstanbul #p11 #g2		43	İstanbul #p3 #g4	65	İstanbul #p1 #g9	87	Trabzon #p1 #g16
21	Karabük #p7 #g2		44	Karabük #p1 #g4	66	Karabük #p1 #g9	88	Sivas #p1 #g18
22	Kayseri #p2 #g2							

5)

```sql
-- fourth query
Select TOP 10 p.PlayerID, p.FirstName, p.LastName, pg.numberOfGoals, pg2.numberOfMatches
From Player p inner join (Select p2.PlayerID, Count(*) numberOfGoals
                          From Player p2 inner join Goals g on p2.PlayerID=g.PlayerID
                          Group by p2.PlayerID) pg on pg.PlayerID=p.PlayerID

        inner join (Select p3.PlayerID, Count(*) numberOfMatches
                    From Goals g inner join Match m on g.MatchID=m.MatchID
                        inner join Player p3 on g.PlayerID=p3.PlayerID
                    Group by p3.PlayerID) pg2 on pg2.PlayerID=pg.PlayerID
Group By p.PlayerID, p.FirstName, p.LastName, pg.numberOfGoals, pg2.numberOfMatches
```

	PlayerID	FirstName	LastName	numberOfGoals	numberOfMatches
1	2	OLCAY	ŞAHAN	8	8
2	3	ATIBA	HUTCHINSON	1	1
3	4	VELİ	KAVLAK	3	3
4	5	HUGO MIGUEL	PEREIRA DE ALMEIDA	13	13
5	6	RAMON	DE MORAES MOTTA	1	1
6	7	GÖKHAN	TÖRE	4	4
7	8	OĞUZHAN	ÖZYAKUP	6	6
8	10	PEDRO CAMILO	FRANCO ULLOA	1	1
9	11	ERSAN ADEM	GÜLÜM	1	1
10	12	MANUEL HENRIQUE	TAVARES FERNANDES	3	3