

Group Members:

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Section: E

Database Assignment # 3 Report

PART # 1

1) SQL Schema:



2) We have given **one** primary key to all tables, therefore all tables have full functional dependency.

3) We believe no normalization is required as: 1NF is when the columns of table

- Columns of all our tables are atomic i.e., they can't be broken down anymore, are not composite and are not multivalued, hence our tables are in 1NF.
- As already mentioned, all tables are full functionally dependent hence, all tables are in 2NF.
- There are no transitive relations in any of the tables hence, all tables are in 3NF.
- As for BCNF, we have yet not covered this topic in class.

PART # 2

We converted all sheets of the provided excel sheets in separate csv files and inserted them in SQL file to create tables.

PART # 3

EASY

Query 1:

```
-- QUERY 1      we use the id of the 'specific manager' as names can be same/similar
-- All the players that have played under a specific manager.
DECLARE @Specific_Manager int = 41
select players.PLAYER_ID, players.FIRST_NAME, players.LAST_NAME, players.NATIONALITY, players.DOB, players.TEAM_ID, managers.ID as 'Managers ID'
from players
join managers on managers.TEAM_ID = players.TEAM_ID
where managers.ID = @Specific_Manager
order by players.PLAYER_ID
```

	PLAYER_ID	FIRST_NAME	LAST_NAME	NATIONALITY	DOB	TEAM_ID	Managers ID
1	ply1359	?gmundur	Kristinnsson	Iceland	1989-06-19	40	41
2	ply1360	Athanasios-Theologos	Papadoudis	Greece	2003-09-06	40	41
3	ply1361	Alexandros	Paschalakis	Greece	1989-07-28	40	41
4	ply1363	Tom?	Vad?k	Czech Republic	1989-03-29	40	41
5	ply1364	Athanasios	Androutsos	Greece	1997-05-06	40	41
6	ply1365	Ousseynou	Ba	Senegal	1995-11-11	40	41
7	ply1366	Pape	Ciss?	Senegal	1995-09-14	40	41
8	ply1367	Etienne	Kinkoue	France	2002-01-14	40	41
9	ply1368	Leonardo	Koutris	Greece	1995-07-23	40	41
10	ply1369	Kenny	Lala	France	1991-10-03	40	41
11	ply1370	Doron	Leidner	Israel	2002-04-26	40	41
12	ply1371	NULL	Marcelo	Brazil	1988-05-12	40	41
13	ply1372	Giannis	Masouras	Greece	1996-08-24	40	41
14	ply1373	Nemanja	Nikoli?	Bosnia-Herzegovina	2001-02-21	40	41
15	ply1374	Sokratis	Papastatho...	Greece	1988-06-09	40	41
16	ply1375	NULL	Pipa	Spain	1998-01-26	40	41
17	ply1376	Oleg	Reabciuk	Moldova	1998-01-16	40	41
18	ply1377	Panagiotis	Retsos	Greece	1998-08-09	40	41
19	ply1378	?ime	Vrsaljko	Croatia	1992-01-10	40	41
20	ply1379	Andreas	Bouchalakis	Greece	1993-04-05	40	41
21	ply1380	Aguibou	Camara	Guinea	2001-05-20	40	41
22	ply1381	Kostas	Fortounis	Greece	1992-10-16	40	41
23	ply1382	In-beom	Hwang	South Korea	1996-09-20	40	41
24	ply1383	Pajtim	Kasami	Switzerland	1992-06-02	40	41
25	ply1384	Ioannis	Kosti	Cyprus	2000-03-17	40	41
26	ply1385	Yann	M?Vila	France	1990-06-29	40	41
27	ply1386	Pierre	Malong	Cameroon	1995-07-26	40	41
28	ply1388	Pep	Biel	Spain	1996-09-05	40	41
29	ply1389	Garry	Rodrigues	Cape Verde	1990-11-27	40	41
30	ply1390	James	Rodr?guez	Colombia	1991-07-12	40	41
31	ply1391	Diadi?	Samass?kou	Mali	1996-01-11	40	41
32	ply1392	Mathieu	Valbuena	France	1984-09-28	40	41
33	ply1393	C?dric	Bakambu	Congo DR	1991-04-11	40	41
34	ply1394	Josh	Bowler	England	1999-03-05	40	41
35	ply1395	Konrad de la	Fuente	USA	2001-07-16	40	41
36	ply1396	NULL	Diby	Spain	2003-07-08	40	41
37	ply1397	Youssef	El-Arabi	Morocco	1987-02-03	40	41
38	ply1398	Ui-jo	Hwang	South Korea	1992-08-28	40	41
39	ply1399	Aboubakar	Kamara	Mauritania	1995-03-07	40	41
40	ply1400	Georgios	Masouras	Greece	1994-01-01	40	41
41	ply1401	Marios	Vrousai	Greece	1998-07-02	40	41
42	ply1402	Panagiotis	Agriogiannis	Greece	1979-07-02	40	41

Query 2:

```
-- QUERY 2
-- All the matches that have been played in a specific country.
DECLARE @Specific_Country varchar(50) = 'Portugal'
select matches.MATCH_ID, matches.SEASON, matches.DATE_TIME, matches.STADIUM_ID, matches.HOME_TEAM_SCORE, matches.AWAY_TEAM_ID, match
from matches
join stadiums on stadiums.ID = matches.STADIUM_ID
where stadiums.COUNTRY = @Specific_Country
```

	MATCH_ID	SEASON	DATE_TIME	STADIUM_ID	HOME_TEAM_SCORE	AWAY_TEAM_ID	HOME_TEAM_SCORE	AWAY_TEAM_SCORE	ATTENDANCE
1	mt103	2021-2022	2022-02-23 20:00:00.000	26	2	2	2	2	54760
2	mt114	2021-2022	2022-04-05 20:00:00.000	26	1	18	1	3	59633
3	mt15	2021-2022	2021-09-28 20:00:00.000	13	1	18	1	5	23520
4	mt152	2020-2021	2020-10-27 20:00:00.000	13	2	40	2	0	2450
5	mt154	2020-2021	2020-11-03 20:00:00.000	13	3	41	3	0	0
6	mt158	2020-2021	2020-12-01 20:00:00.000	13	0	20	0	0	0
7	mt18	2021-2022	2021-10-19 20:00:00.000	13	1	1	1	0	32130
8	mt224	2020-2021	2021-02-17 20:00:00.000	13	2	16	2	1	0
9	mt23	2021-2022	2021-12-07 20:00:00.000	13	1	4	1	3	38830
10	mt250	2020-2021	2021-05-29 20:00:00.000	13	0	9	0	1	14110
11	mt26	2021-2022	2021-09-15 20:00:00.000	27	1	2	1	5	20382
12	mt32	2021-2022	2021-11-03 20:00:00.000	27	4	6	4	0	40835
13	mt324	2019-2020	2019-09-17 20:00:00.000	26	1	23	1	2	46460
14	mt328	2019-2020	2019-10-23 20:00:00.000	26	2	48	2	1	53035
15	mt333	2019-2020	2019-12-10 20:00:00.000	26	3	32	3	0	40232
16	mt34	2021-2022	2021-11-24 20:00:00.000	27	3	7	3	1	41341
17	mt363	2019-2020	2020-08-12 20:00:00.000	26	1	22	1	2	0
18	mt364	2019-2020	2020-08-13 20:00:00.000	27	2	4	2	1	0
19	mt365	2019-2020	2020-08-14 20:00:00.000	26	2	5	2	8	0
20	mt366	2019-2020	2020-08-15 20:00:00.000	27	1	48	1	3	0
21	mt367	2019-2020	2020-08-18 20:00:00.000	26	0	22	0	3	0
22	mt368	2019-2020	2020-08-19 20:00:00.000	27	0	5	0	3	0
23	mt369	2019-2020	2020-08-23 20:00:00.000	26	0	5	0	1	0
24	mt409	2018-2019	2018-10-03 20:00:00.000	13	1	46	1	0	42711
25	mt412	2018-2019	2018-11-06 20:00:00.000	13	4	39	4	1	34616
26	mt415	2018-2019	2018-11-28 20:00:00.000	13	3	58	3	1	41603
27	mt419	2018-2019	2018-09-19 20:00:00.000	26	0	5	0	2	60274
28	mt424	2018-2019	2018-11-07 20:00:00.000	26	1	2	1	1	51328
29	mt429	2018-2019	2018-12-12 20:00:00.000	26	1	54	1	0	33633
30	mt477	2018-2019	2019-03-06 20:00:00.000	13	3	56	3	1	49029
31	mt488	2018-2019	2019-04-17 20:00:00.000	13	1	18	1	4	49117
32	mt496	2017-2018	2017-09-12 19:45:00.000	26	1	57	1	2	38323
33	mt499	2017-2018	2017-10-18 19:45:00.000	26	0	21	0	1	57684
34	mt505	2017-2018	2017-12-05 19:45:00.000	26	0	63	0	2	22470
35	mt51	2021-2022	2021-09-29 20:00:00.000	26	3	12	3	0	29454
36	mt534	2017-2018	2017-09-27 19:45:00.000	27	0	12	0	1	48575
37	mt538	2017-2018	2017-10-31 19:45:00.000	27	1	16	1	1	48442
38	mt54	2021-2022	2021-10-20 20:00:00.000	26	0	5	0	4	50000
39	mt540	2017-2018	2017-11-22 19:45:00.000	27	3	40	3	1	42528
40	mt567	2017-2018	2017-09-13 19:45:00.000	13	1	6	1	3	42429
41	mt574	2017-2018	2017-11-01 19:45:00.000	13	3	23	3	1	41616
42	mt577	2017-2018	2017-12-06 19:45:00.000	13	5	55	5	2	42509
43	mt593	2017-2018	2018-02-14 19:45:00.000	13	0	18	0	5	47718
44	mt60	2021-2022	2021-12-08 20:00:00.000	26	2	11	2	0	37000
45	mt633	2016-2017	2016-09-13 19:45:00.000	26	1	6	1	1	42126
46	mt639	2016-2017	2016-11-01 19:45:00.000	26	1	11	1	0	51641
47	mt643	2016-2017	2016-12-06 19:45:00.000	26	1	50	1	2	55634
48	mt683	2016-2017	2016-09-27 19:45:00.000	27	2	72	2	0	40094
49	mt685	2016-2017	2016-10-18 19:45:00.000	27	1	7	1	2	46609
50	mt689	2016-2017	2016-11-22 19:45:00.000	27	1	25	1	2	50046
51	mt693	2016-2017	2016-09-14 19:45:00.000	13	1	70	1	1	34325
52	mt699	2016-2017	2016-11-02 19:45:00.000	13	1	10	1	0	32310
53	mt703	2016-2017	2016-12-07 19:45:00.000	13	5	73	5	0	39310
54	mt716	2016-2017	2017-02-14 19:45:00.000	26	1	7	1	0	55124
55	mt722	2016-2017	2017-02-22 19:45:00.000	13	0	16	0	2	49229
56	mt97	2021-2022	2022-02-15 20:00:00.000	27	0	20	0	5	48129

Query 3:

```
-- QUERY 3
-- All the teams that have won more than 3 matches in their home stadium.
--(Assume a team wins only if they scored more goals then other team)
select matches.HOME_TEAM_ID as 'Team ID', teams.TEAM_NAME, teams.COUNTRY, teams.HOME_STADIUM_ID, count(*) as 'no.of Matches Won'
from teams
join matches on matches.STADIUM_ID = teams.HOME_STADIUM_ID -- team playing in home stadium
and matches.HOME_TEAM_ID = teams.ID
where matches.HOME_TEAM_SCORE > matches.AWAY_TEAM_SCORE -- team won in their home stadium
group by matches.HOME_TEAM_ID, teams.TEAM_NAME, teams.COUNTRY, teams.HOME_STADIUM_ID
having count(*) > 3
```

	Team ID	TEAM_NAME	COUNTRY	HOME_STADIUM_ID	no of Matches Won
1	2	AFC Ajax	Netherlands	2	7
2	4	Atlético Madrid	Spain	4	9
3	5	Bayern Munchen	Germany	5	22
4	7	Borussia Dortmund	Germany	7	12
5	9	Chelsea FC	England	9	9
6	12	FC Barcelona	Spain	12	20
7	13	FC Porto	Portugal	13	12
8	15	Inter	Italy	1	4
9	16	Juventus	Italy	15	19
10	18	Liverpool FC	England	17	17
11	20	Manchester City	England	19	23
12	21	Manchester United	England	20	8
13	22	Paris Saint-Germ...	France	21	17
14	23	RB Leipzig	Germany	22	7
15	24	RB Salzburg	Austria	22	4
16	25	Real Madrid	Spain	23	15
17	26	Sevilla FC	Spain	24	8

17	26	Sevilla FC	Spain	24	8
18	28	SL Benfica	Portugal	26	7
19	29	Sporting CP	Portugal	27	4
20	50	SSC Napoli	Italy	52	7
21	55	AS Monaco	France	58	4
22	56	AS Roma	Italy	37	8
23	73	Leicester City	England	79	4

Query 4:

130 %

Results Messages

	ID	TEAM_NAME	FIRST_NAME	COUNTRY	NATIONALITY
1	4	Atlético Madrid	Diego	Spain	Argentina
2	6	Besiktas	Val?rien	Turkey	France
3	11	Dinamo Kiev	Mircea	Ukraine	Romania
4	14	FC Sheriff	Stjepan	Moldova	Croatia
5	17	Lille OSC	Paulo	France	Portugal
6	18	Liverpool FC	J?rgen	England	Germany
7	19	Malmö FF	?ge	Sweden	Norway
8	20	Manchester City	Pep	England	Spain
9	21	Manchester United	Erik ten	England	Netherlands
10	24	RB Salzburg	Matthias	Austria	Germany
11	25	Real Madrid	Carlo	Spain	Italy
12	27	Shakhtar Donetsk	Igor	Ukraine	Croatia
13	28	SL Benfica	Roger	Portugal	Germany
14	30	VfL Wolfsburg	Niko	Germany	Croatia
15	34	FC Midtjylland	Albert	Denmark	Spain
16	35	Ferencvárosi TC	Stanislav	Hungary	Russia
17	39	Lokomotiv Moskva	Joe	Russia	Germany
18	40	Olympiakos Pirae...	Carlos	Greece	Spain
19	40	Olympiakos Pirae...	NULL	Greece	Spain
20	41	Olympique Mars...	Igor	France	Croatia
21	43	Bayer Leverkusen	Xabi	Germany	Spain
22	48	Olympique Lyon	Peter	France	Netherlands
23	51	Tottenham Hotspur	Antonio	England	Italy
24	52	Valencia CF	Gennaro	Spain	Italy
25	54	AEK Athen	Mat?as	Greece	Argentina
26	55	AS Monaco	Philippe	France	Belgium
27	56	AS Roma	Jos?	Italy	Portugal
28	62	Celtic FC	Ange	Scotland	Australia
29	65	NK Maribor	Damir	Slovenia	Croatia
30	68	Spartak Moskva	Guillermo	Russia	Spain
31	68	Spartak Moskva	Fernando	Russia	Spain
32	69	Arsenal FC	Dmitriy	England	Russia
33	70	FC København	Sandro	Denmark	Germany
34	71	FK Rostov	Stephan	Russia	Switzerland
35	69	Arsenal FC	Mikel	England	Spain

Query executed successfully

Query 5:

Results Messages

	MATCH_ID	SEASON	AWAY_TEAM_ID	HOME_TEAM_ID	AWAY_TEAM_SCORE	HOME_TEAM_SCORE	stadium_id	stadium_name
	mt100	2021-2022	18	15	2	0	1	Giuseppe Meazza
	mt103	2021-2022	2	28	2	2	26	Est?dio da Luz
	mt104	2021-2022	21	4	1	1	4	Wanda Metropolitano
	mt105	2021-2022	24	5	1	7	5	Allianz Arena
	mt108	2021-2022	22	25	1	3	23	Santiago Bernab?u
	mt110	2021-2022	4	21	1	0	20	Old Trafford
	mt114	2021-2022	18	28	3	1	26	Est?dio da Luz
	mt117	2021-2022	9	25	3	2	23	Santiago Bernab?u
	mt118	2021-2022	31	5	1	1	5	Allianz Arena
	mt119	2021-2022	20	4	0	0	4	Wanda Metropolitano
	mt124	2021-2022	20	25	1	3	23	Santiago Bernab?u
	mt125	2021-2022	25	18	1	0	31	Stade de France
	mt127	2020-2021	4	5	0	4	5	Allianz Arena
	mt129	2020-2021	24	4	2	3	4	Wanda Metropolitano
	mt13	2021-2022	13	4	0	0	4	Wanda Metropolitano
	mt132	2020-2021	39	4	0	0	4	Wanda Metropolitano
	mt133	2020-2021	24	5	1	3	5	Allianz Arena
	mt135	2020-2021	5	4	1	1	4	Wanda Metropolitano
	mt136	2020-2021	39	5	0	2	5	Allianz Arena
	mt139	2020-2021	33	15	2	2	1	Giuseppe Meazza
	mt140	2020-2021	15	27	0	0	11	Olimpiyskiy
	mt142	2020-2021	33	27	6	0	11	Olimpiyskiy
	mt145	2020-2021	25	15	2	0	1	Giuseppe Meazza
	mt146	2020-2021	25	27	0	2	11	Olimpiyskiy
	mt148	2020-2021	27	15	0	0	1	Giuseppe Meazza
	mt153	2020-2021	20	41	3	0	40	V?lodrome
	mt157	2020-2021	13	41	2	0	40	V?lodrome

MEDIUM

Query 6:

	GOAL_ID	MATCH_ID	PID	ASSIST	GOAL_DESC	player_id
1	gl382	mt126	ply762	NULL	right-footed shot	ply762
2	gl387	mt127	ply1092	NULL	right-footed shot	ply1092
3	gl392	mt129	ply112	NULL	left-footed shot	ply112
4	gl394	mt129	ply94	NULL	own goal	ply94
5	gl398	mt130	ply1347	NULL	penalty	ply1347
6	gl406	mt131	ply127	NULL	left-footed shot	ply127
7	gl399	mt131	ply1465	NULL	left-footed shot	ply1465
8	gl401	mt131	ply1106	NULL	own goal	ply1106
9	gl407	mt133	ply398	NULL	left-footed shot	ply398
10	gl422	mt138	ply686	NULL	own goal	ply686
11	gl427	mt139	ply1126	NULL	penalty	ply1126
12	gl431	mt141	ply1149	NULL	right-footed shot	ply1149
13	gl440	mt143	ply831	NULL	right-footed shot	ply831
14	gl447	mt144	ply1474	NULL	bicycle kick	ply1474
15	gl448	mt144	ply1475	NULL	free kick	ply1475
16	gl450	mt145	ply723	NULL	own goal	ply723
17	gl477	mt157	ply413	NULL	left-footed shot	ply413
18	gl484	mt160	ply1482	NULL	own goal	ply1482
19	gl521	mt176	ply767	NULL	penalty	ply767
20	gl526	mt178	ply767	NULL	penalty	ply767
21	gl531	mt179	ply866	NULL	left-footed shot	ply866
22	gl536	mt181	ply863	NULL	right-footed shot	ply863
23	gl543	mt183	ply26	NULL	penalty	ply26
24	gl549	mt185	ply1501	NULL	penalty	ply1501
25	gl551	mt186	ply1503	NULL	own goal	ply1503
26	gl554	mt187	ply1504	NULL	own goal	ply1504

Query 7:

Results Messages				
	TEAM_NAME	ID	COUNTRY	HOME_STADIUM_ID
1	Zenit St. Petersburg	32	Russia	30
2	FK Krasnodar	36	Russia	35
3	Lokomotiv Moskva	39	Russia	38
4	CSKA Moskva	57	Russia	59
5	Spartak Moskva	68	Russia	73
6	FK Rostov	71	Russia	77

Query 8:

Results Messages					
	Stadium ID	Stadium Name	COUNTRY	Team ID	Matches Hosted
1	2	Johan Crujff Arena	Netherlands	2	16
2	3	Gewiss Stadium	Italy	3	7
3	4	Wanda Metropolitano	Spain	4	20
4	5	Allianz Arena	Germany	5	29
5	6	Vodafone Park	Turkey	6	10
6	7	Signal Iduna Park	Germany	7	24
7	9	Stamford Bridge	England	9	18
8	10	Jan Breydel Stadion	Belgium	10	15
9	11	Olimpiyskyi	Ukraine	11	17
10	12	Spotify Camp Nou	Spain	12	27
11	13	Est?dio do Drag?o	Portugal	13	21
12	1	Giuseppe Meazza	Italy	15	20
13	15	Allianz Stadium	Italy	16	28
14	16	Stade Pierre Mauroy	France	17	7
15	17	Anfield	England	18	26
16	19	Etihad Stadium	England	20	29
17	20	Old Trafford	England	21	16
18	21	Parc des Princes	France	22	26
19	22	Red Bull Arena	Germany	23	23
20	22	Red Bull Arena	Germany	24	23
21	23	Santiago Bernab?u	Spain	25	26
22	24	Ram?n S?nchez Pi...	Spain	26	18
23	26	Est?dio da Luz	Portugal	28	22
24	27	Est?dio Jos? Alvala...	Portugal	29	13
25	30	Gazprom Arena	Russia	32	9
26	37	Olimpico	Italy	38	14
27	38	R?D-Arena	Russia	39	9
28	39	Georgios Karaiskakis	Greece	40	9
27	38	R?D-Arena	Russia	39	9
28	39	Georgios Karaisk...	Greece	40	9
29	45	BayArena	Germany	43	7
30	50	Groupama Stadium	France	48	11
31	52	Diego Maradona	Italy	50	14
32	54	Estadio de Mestalla	Spain	52	7
33	58	Stade Louis II	France	55	12
34	37	Olimpico	Italy	56	14
35	68	St. Jakob-Park	Switzerland	63	7

Query 9:

```
-- QUERY 9
select top 1 matches.SEASON, count(*) as 'Left - footed goals'
from goals
join matches on matches.MATCH_ID = goals.MATCH_ID
where goals.GOAL_DESC LIKE 'left%'
group by matches.SEASON
order by count(*) desc

/***** OR *****/

SELECT T.SEASON , COUNT(*) AS num_left_footed_goals -- season with max no.of left-footed goals
FROM ( SELECT matches.SEASON, goals.MATCH_ID -- lists all matches and their seasons that had left-footed goals
FROM goals
JOIN matches ON goals.MATCH_ID = matches.MATCH_ID
WHERE GOAL_DESC LIKE 'left%' ) as T
group by T.SEASON
having count(*) = ( select max(Temp.num_left_footed_goals) -- max left-footed goals from all seasons
from ( SELECT matches.SEASON, COUNT(*) AS num_left_footed_goals -- count of left-footed
FROM goals -- goals of each season
JOIN matches ON matches.MATCH_ID = goals.MATCH_ID
WHERE goals.GOAL_DESC LIKE 'left%'
GROUP BY matches.SEASON ) as Temp )
```

15 %

Results Messages Client Statistics

SEASON	num_left_footed_goals
2018-2019	115

Query 10:

```
-- QUERY 10
select top 1 T1.NATIONALITY, count(*) as players_each_country -- count players from each country
from ( select players.PLAYER_ID, count(*) as No_of_Goals, players.NATIONALITY
from players
join goals on players.PLAYER_ID = goals.PID -- players with goals >= 1
group by players.PLAYER_ID, players.NATIONALITY ) as T1
group by T1.NATIONALITY
order by players_each_country desc

/***** OR *****/

select T.NATIONALITY, count(*) as 'Max no.of goaling Players' -- country with max goaling players
from ( select players.PLAYER_ID, count(*) as No_of_Goals, players.NATIONALITY
from players -- players with goals >= 1
join goals on players.PLAYER_ID = goals.PID
group by players.PLAYER_ID, players.NATIONALITY ) as T
group by T.NATIONALITY
having count(*) =
( select max(T2.players_each_country) -- max players from a country
from ( select count(*) as players_each_country, T1.NATIONALITY -- count players from each country
from ( select players.PLAYER_ID, count(*) as No_of_Goals, players.NATIONALITY
from players -- players with goals >= 1
join goals on players.PLAYER_ID = goals.PID -- and their nationality
group by players.PLAYER_ID, players.NATIONALITY ) as T1
group by T1.NATIONALITY ) as T2)
```

15 %

Results Messages Client Statistics

NATIONALITY	Max no.of goaling Players
Spain	62

HARD

Query 11:

Results Messages					
	Stadium ID	Stadium Name	COUNTRY	left_goal	right_goal
1	2	Johan Crujff Arena	Netherlands	20	12
2	3	Gewiss Stadium	Italy	10	9
3	6	Vodafone Park	Turkey	13	4
4	8	Stadion Wankdorf	Switzerland	9	6
5	12	Spotify Camp Nou	Spain	33	30
6	28	Volkswagen Arena	Germany	4	3
7	36	Fatih Terim Stadium	Turkey	5	4
8	40	V?lodrome	France	3	2
9	43	Pusk?s Ar?na	Hungary	6	5
10	44	Arena Na?ional?	Romania	1	0
11	51	Sinobo Stadium	Czech Re...	4	3
12	59	VEB Arena	Russia	5	4
13	63	Wembley Stadium	England	16	14
14	76	Telia Parken	Denmark	2	0
15	81	Vasil Levski	Bulgaria	6	1
16	82	Vicente Calder?n	Spain	4	3

Query 12:

Results Messages										
	MATCH_ID	SEASON	DATE_TIME	STADIUM_ID	HOME_TEAM_SCORE	AWAY_TEAM_ID	HOME_TEAM_SCORE	AWAY_TEAM_SCORE	ATTENDANCE	COUNTRY
1	mt122	2021-2022	2022-04-27 20:00:00.000	17	2	31	2	0	51586	England
2	mt121	2021-2022	2022-04-26 20:00:00.000	19	4	25	4	3	55097	England
3	mt120	2021-2022	2022-04-13 20:00:00.000	17	3	28	3	3	51373	England
4	mt115	2021-2022	2022-04-06 20:00:00.000	9	1	25	1	3	38689	England
5	mt113	2021-2022	2022-04-05 20:00:00.000	19	1	4	1	0	52018	England
6	mt110	2021-2022	2022-03-15 20:00:00.000	20	0	4	0	1	73008	England
7	mt107	2021-2022	2022-03-09 20:00:00.000	19	0	29	0	0	51213	England
8	mt106	2021-2022	2022-03-08 20:00:00.000	17	0	15	0	1	51747	England
9	mt101	2021-2022	2022-02-22 20:00:00.000	9	2	17	2	0	38832	England
10	mt171	2021-2022	2021-12-08 20:00:00.000	20	1	8	1	1	73156	England
11	mt9	2021-2022	2021-11-24 20:00:00.000	19	2	22	2	1	52030	England
12	mt21	2021-2022	2021-11-24 20:00:00.000	17	2	13	2	0	52209	England
13	mt93	2021-2022	2021-11-23 20:00:00.000	9	4	16	4	0	39513	England
14	mt8	2021-2022	2021-11-03 20:00:00.000	19	4	10	4	1	50228	England
15	mt20	2021-2022	2021-11-03 20:00:00.000	17	2	4	2	0	51347	England
16	mt90	2021-2022	2021-10-20 20:00:00.000	9	4	19	4	0	39095	England
17	mt65	2021-2022	2021-10-20 20:00:00.000	20	3	3	3	2	72279	England
18	mt64	2021-2022	2021-09-29 20:00:00.000	20	2	31	2	1	73130	England
19	mt1	2021-2022	2021-09-15 20:00:00.000	19	6	23	6	3	38062	England
20	mt14	2021-2022	2021-09-15 20:00:00.000	17	3	1	3	2	51445	England
21	mt85	2021-2022	2021-09-14 20:00:00.000	9	1	32	1	0	39252	England
22	mt249	2020-2021	2021-05-05 20:00:00.000	9	2	25	2	0	0	England
23	mt248	2020-2021	2021-05-04 20:00:00.000	19	2	22	2	0	0	England
24	mt245	2020-2021	2021-04-14 20:00:00.000	17	0	25	0	0	0	England
25	mt238	2020-2021	2021-04-06 20:00:00.000	19	2	7	2	1	0	England
26	mt237	2020-2021	2021-03-17 20:00:00.000	9	2	4	2	0	0	England
27	mt160	2020-2021	2020-12-09 20:00:00.000	19	3	41	3	0	1	England
28	mt184	2020-2021	2020-12-08 20:00:00.000	9	1	36	1	1	2000	England

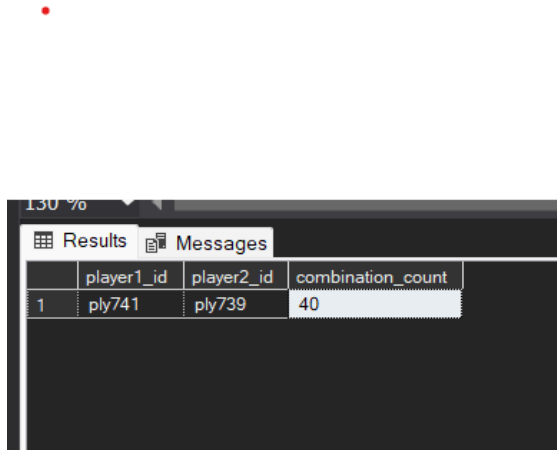
Results Messages										
	MATCH_ID	SEASON	DATE_TIME	STADIUM_ID	HOME_TEAM_SCORE	AWAY_TEAM_ID	HOME_TEAM_SCORE	AWAY_TEAM_SCORE	ATTENDANCE	COUNTRY
29	mt219	2020-2021	2020-12-02 20:00:00.000	20	1	22	1	3	638	England
			Click to select all grid cells	2020-12-01 20:00:00.000	17	1	2	1	0	England
31	mt169	2020-2021	2020-11-25 20:00:00.000	17	0	3	0	2	0	England
32	mt216	2020-2021	2020-11-24 20:00:00.000	20	4	37	4	1	545	England
33	mt178	2020-2021	2020-11-04 20:00:00.000	9	3	42	3	0	0	England
34	mt155	2020-2021	2020-11-03 20:00:00.000	19	3	40	3	0	0	England
35	mt213	2020-2021	2020-10-28 20:00:00.000	20	5	23	5	0	577	England
36	mt165	2020-2021	2020-10-27 20:00:00.000	17	2	34	2	0	0	England
37	mt150	2020-2021	2020-10-21 20:00:00.000	19	3	13	3	1	0	England
38	mt174	2020-2021	2020-10-20 20:00:00.000	9	0	26	0	0	0	England
39	mt359	2019-2020	2020-08-07 20:00:00.000	19	2	25	2	1	0	England
40	mt358	2019-2020	2020-03-11 20:00:00.000	17	2	4	2	3	45000	England
41	mt351	2019-2020	2020-02-25 20:00:00.000	9	0	5	0	3	36761	England
42	mt350	2019-2020	2020-02-19 20:00:00.000	53	0	23	0	1	60095	England
43	mt345	2019-2020	2019-12-10 20:00:00.000	9	2	17	2	1	40016	England
44	mt307	2019-2020	2019-11-27 20:00:00.000	17	1	50	1	1	52128	England
45	mt283	2019-2020	2019-11-26 20:00:00.000	19	1	27	1	1	52020	England
46	mt271	2019-2020	2019-11-26 20:00:00.000	53	4	40	4	2	57024	England
47	mt305	2019-2020	2019-11-05 20:00:00.000	17	2	47	2	1	52611	England
48	mt341	2019-2020	2019-11-05 20:00:00.000	9	4	2	4	4	39132	England
49	mt267	2019-2020	2019-10-22 20:00:00.000	53	5	44	5	0	51743	England
50	mt280	2019-2020	2019-10-22 20:00:00.000	19	5	3	5	1	49308	England
51	mt302	2019-2020	2019-10-02 20:00:00.000	17	4	24	4	3	52234	England
52	mt278	2019-2020	2019-10-01 20:00:00.000	19	2	45	2	0	49046	England
53	mt265	2019-2020	2019-10-01 20:00:00.000	53	2	5	2	7	60127	England
54	mt335	2019-2020	2019-09-17 20:00:00.000	9	0	52	0	1	39469	England
55	mt492	2018-2019	2019-05-07 20:00:00.000	17	4	12	4	0	55212	England
56	mt490	2018-2019	2019-04-30 20:00:00.000	53	0	2	0	1	60243	England

Results Messages										
	MATCH_ID	SEASON	DATE_TIME	STADIUM_ID	HOME_TEAM_SCORE	AWAY_TEAM_ID	HOME_TEAM_SCORE	AWAY_TEAM_SCORE	ATTENDANCE	COUNTRY
57	mt489	2018-2019	2019-04-17 20:00:00.000	19	4	51	4	3	53348	England
58	mt485	2018-2019	Click to select the whole column	20	0	12	0	1	74093	England
59	mt482	2018-2019	2019-04-09 20:00:00.000	17	2	13	2	0	52465	England
60	mt483	2018-2019	2019-04-09 20:00:00.000	53	1	20	1	0	60044	England
61	mt478	2018-2019	2019-03-12 20:00:00.000	19	7	58	7	0	51518	England
62	mt471	2018-2019	2019-02-19 20:00:00.000	17	0	5	0	0	52250	England
63	mt468	2018-2019	2019-02-13 20:00:00.000	63	3	7	3	0	71214	England
64	mt466	2018-2019	2019-02-12 20:00:00.000	20	0	22	0	2	74054	England
65	mt441	2018-2019	2018-12-12 20:00:00.000	19	2	53	2	1	50411	England
66	mt404	2018-2019	2018-12-11 20:00:00.000	17	1	50	1	0	52015	England
67	mt391	2018-2019	2018-11-28 20:00:00.000	63	1	15	1	0	57132	England
68	mt463	2018-2019	2018-11-27 20:00:00.000	20	1	8	1	0	72876	England
69	mt436	2018-2019	2018-11-07 20:00:00.000	19	6	27	6	0	52286	England
70	mt388	2018-2019	2018-11-06 20:00:00.000	63	2	59	2	1	46588	England
71	mt399	2018-2019	2018-10-24 20:00:00.000	17	4	44	4	0	53024	England
72	mt459	2018-2019	2018-10-23 20:00:00.000	20	0	16	0	1	73946	England
73	mt384	2018-2019	2018-10-03 20:00:00.000	63	2	12	2	4	82137	England
74	mt457	2018-2019	2018-10-02 20:00:00.000	20	0	52	0	0	73569	England
75	mt431	2018-2019	2018-09-19 20:00:00.000	19	1	48	1	2	40111	England
76	mt394	2018-2019	2018-09-18 20:00:00.000	17	3	22	3	2	52478	England
77	mt615	2017-2018	2018-04-24 19:45:00.000	17	5	56	5	2	51236	England
78	mt612	2017-2018	2018-04-10 19:45:00.000	19	1	18	1	2	53461	England
79	mt610	2017-2018	2018-04-04 19:45:00.000	17	3	20	3	0	50685	England
80	mt603	2017-2018	2018-03-13 19:45:00.000	20	1	26	1	2	74909	England
81	mt601	2017-2018	2018-03-07 19:45:00.000	63	1	16	1	2	84010	England
82	mt602	2017-2018	2018-03-07 19:45:00.000	19	1	63	1	2	49411	England
83	mt599	2017-2018	2018-03-06 19:45:00.000	17	0	13	0	0	48768	England
84	mt595	2017-2018	2018-02-20 19:45:00.000	9	1	12	1	1	37741	England

Results Messages										
	MATCH_ID	SEASON	DATE_TIME	STADIUM_ID	HOME_TEAM_SCORE	AWAY_TEAM_ID	HOME_TEAM_SCORE	AWAY_TEAM_SCORE	ATTENDANCE	COUNTRY
85	mt590	2017-2018	2017-12-06 19:45:00.000	63	3	61	3	0	42679	England
86	mt553	2017-2018	2017-12-06 19:45:00.000	17	7	68	7	0	48779	England
87	mt529	2017-2018	2017-12-05 19:45:00.000	9	1	4	1	1	40875	England
88	mt506	2017-2018	2017-12-05 19:45:00.000	20	2	57	2	1	74669	England
89	mt564	2017-2018	2017-11-21 19:45:00.000	19	1	64	1	0	43548	England
90	mt550	2017-2018	2017-11-01 19:45:00.000	17	3	65	3	0	47957	England
91	mt585	2017-2018	2017-11-01 19:45:00.000	63	3	25	3	1	83782	England
92	mt501	2017-2018	2017-10-31 19:45:00.000	20	2	28	2	0	74437	England
93	mt524	2017-2018	2017-10-18 19:45:00.000	9	3	56	3	3	41105	England
94	mt559	2017-2018	2017-10-17 19:45:00.000	19	2	50	2	1	48520	England
95	mt557	2017-2018	2017-09-26 19:45:00.000	19	2	27	2	0	45310	England
96	mt543	2017-2018	2017-09-13 19:45:00.000	17	2	26	2	2	52332	England
97	mt579	2017-2018	2017-09-13 19:45:00.000	63	3	7	3	1	67343	England
98	mt520	2017-2018	2017-09-12 19:45:00.000	9	6	66	6	0	41150	England
99	mt495	2017-2018	2017-09-12 19:45:00.000	20	3	63	3	0	73854	England
100	mt736	2016-2017	2017-04-18 19:45:00.000	79	1	4	1	1	31548	England
101	mt729	2016-2017	2017-03-14 19:45:00.000	79	2	26	2	0	31520	England
102	mt725	2016-2017	2017-03-07 19:45:00.000	75	1	5	1	5	59911	England
103	mt720	2016-2017	2017-02-21 19:45:00.000	19	5	55	5	3	53351	England
104	mt679	2016-2017	2016-12-07 19:45:00.000	63	3	57	3	1	62034	England
105	mt655	2016-2017	2016-12-06 19:45:00.000	19	1	62	1	1	51297	England
106	mt628	2016-2017	2016-11-23 19:45:00.000	75	2	22	2	2	59628	England
107	mt701	2016-2017	2016-11-22 19:45:00.000	79	2	10	2	1	31443	England
108	mt675	2016-2017	2016-11-02 19:45:00.000	63	0	43	0	1	85512	England
109	mt651	2016-2017	2016-11-01 19:45:00.000	19	3	12	3	1	53340	England
110	mt624	2016-2017	2016-10-19 19:45:00.000	75	6	74	6	0	59944	England
111	mt697	2016-2017	2016-10-18 19:45:00.000	79	1	70	1	0	31037	England
112	mt622	2016-2017	2016-09-28 19:45:00.000	75	2	63	2	0	59993	England

110	mt624	2016-2017	2016-10-19 19:45:00.000	75	6	74	6	0	59944	England
111	mt697	2016-2017	2016-10-18 19:45:00.000	79	1	70	1	0	31037	England
112	mt622	2016-2017	2016-09-28 19:45:00.000	75	2	63	2	0	59993	England
113	mt695	2016-2017	2016-09-27 19:45:00.000	79	1	13	1	0	31805	England
114	mt669	2016-2017	2016-09-14 19:45:00.000	63	1	55	1	2	85011	England
115	mt645	2016-2017	2016-09-14 19:45:00.000	19	4	33	4	0	30270	England

Query 13:

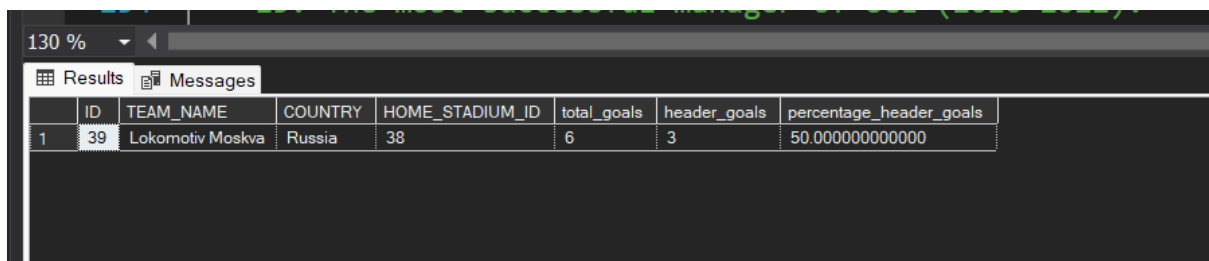


130 %

Results Messages

	player1_id	player2_id	combination_count
1	ply741	ply739	40

Query 14:




130 %

Results Messages

	ID	TEAM_NAME	COUNTRY	HOME_STADIUM_ID	total_goals	header_goals	percentage_header_goals
1	39	Lokomotiv Moskva	Russia	38	6	3	50.0000000000000

Query 15:




Results Messages

	cout	t_id	team_name	firstname	lastname	dob	nationality	manager_id	cout2	team_name	percentage1
1	The most successfull manager is	56	AS Roma	Jos?	Mourinho	1963-01-26	Portugal	56	with winning percentage of the team as	AS Roma	75

BONUS

Query 16:



130 %

Results Messages

	season	team_name	t_id	std_id	country	percentage_matches_won
1	2016-2017	Bayern München	5	5	Germany	70
2	2017-2018	Shakhtar Donetsk	27	25	Ukraine	87.5
3	2018-2019	AS Roma	56	37	Italy	75
4	2019-2020	Borussia Dortmund	7	7	Germany	75
5	2021-2022	RB Salzburg	24	22	Austria	75