MSDS 7330

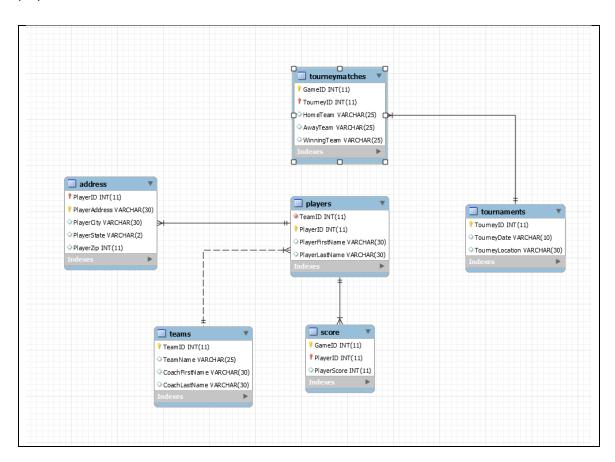
File Organization and Database Management

Midterm

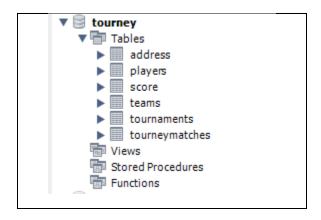
Evangelos Giakoumakis

1. Develop a normalized schema for the database using MySQL Workbench

Normalization level was not specified, so did a first normal form (1NF) splitting addresses from players information.



2. Create the tourney DB using the model you just created (forward engineering)







3. Insert values into the Database from the csv files provided.

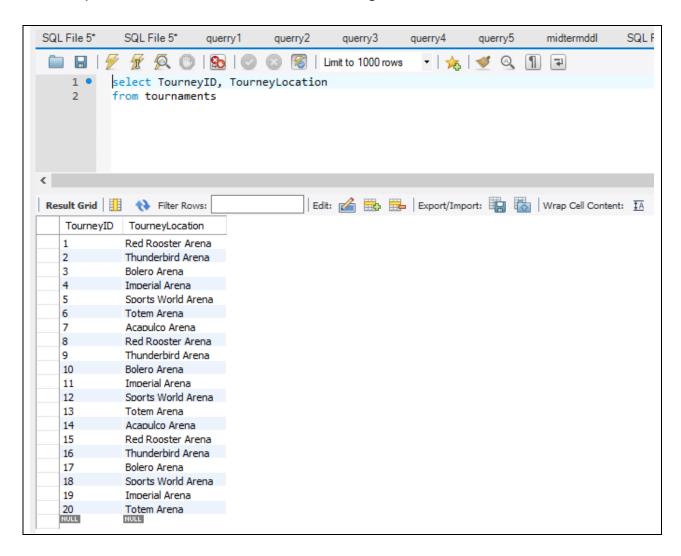
Inserted data using provided .csv files and mysql data import wizard. Below are all the elements inside all Database tables.

PlayerID	PlayerAddres		PlayerCity	PlayerState	PlayerZip		TeamID	PlayerID	PlayerFirstName		LastName
24	122 Spring Val		Duvall	WA	98019		1	1	Barbara	Fournie	
26	122 Spring Val		Duvall	WA	98019		1	2	David	Fournie	
27	122 Spring Val	ilev Drive	Duvall	WA	98019		1	3	John	Kenned	
33	123 Main		Woodland	WA	98072		1	4	Sara	Shesker	
39	154 Oklahoma		Kirkland	WA	98033		2	5	Ann	Patters	
5	16 Maple Lane		Auburn	WA	98002		2	6	Neil	Patters	
6	16 Maple Lane		Auburn	WA	98002		2	7	David	Viescas	
15	16 Maple Lane		Auburn	WA	98002		2	8	Stephanie	Viescas	
25	16 Maple Lane		Auburn	WA	98002		3	9	Alastair	Black	
30	16 Maple Lane		Auburn	WA	98002		3	10	David	Cunning	
34	160 Elm Street		Auburn	WA	98002		3	11	Anael	Kenned	lv
12	16345 NE 32n		Bellevue	WA	98004		3	12	Carol	Viescas	
7	16679 NE 42n		Redmond	WA	98052		4	13	Elizabeth	Hallmar	k
8	16679 NE 42n		Redmond	WA	98052		4	14	Garv	Hallmar	k
23	16679 NE 42n	d Court	Redmond	WA	98052		4	15	Kathrvn	Patters	on
4	17950 N 59th		Seattle	WA	98011		4	16	Richard	Shesker	v
16	17950 N 59th		Seattle	WA	98011		5	17	Kendra	Hernan	dez
19	218 Main Stree		Redmond	WA	98052		5	18	Michael	Hernan	dez
20	218 Main Stree		Redmond	WA	98052		5	19	John	Viescas	
28	218 Main Stree		Redmond	WA	98052		5	20	Suzanne	Viescas	
35	227 Bav Moss	3	Kandv	WA	98033		6	21	Zacharv	Ehrlich	
3	2957 W 33rd		Ballard	WA	98099		6	22	Alaina	Hallmarl	k
11	2957 W 33rd		Ballard	WA	98099		6	23	Caleb	Viescas	
37	400 Preston R	ld.	Irvina	WA	98072		6	24	Sarah	Thomps	
10	4110 Old Redr	mond Rd.	Redmond	WA	98052		7	25	Megan	Patters	
17	47 Harvard Dr		Kirkland	WA	98033		7	26	Marv	Thomps	
18	47 Harvard Dr	ive	Kirkland	WA	98033		7	27	William	Thomps	
ress 12 ×						pla	yers 13 🗙				
GameII) PlayerID) Playe	erScore			П	TeamID	TeamNa	me CoachF	irstName	CoachLastNar
+	-		crocore				1	Marlins	Marcus		Brown
1	1	21					2	Sharks	Bill		Curry
1	2	41								_	
1	3	15					3	Terrapin		n	Powell
1	4	21					4	Barracuo			Dunn
1	5	32					5	Dolphins	John		Nestle
							6	Orcas	Oscar		Wilde
	6	35					7	Manatee	s Kerrv		Lona
1		45					8	Swordfis	h Jeff		Nichols
1	7	70									
1		25					q	Hucklehe			Britt
1	7 8	25					9	Hucklebe Mint Iulo	errvs Dolan		Britt
1 1 2	7 8 9	25 21					9 10 NULL	MintJulei	errvs Dolan		Britt Vers
1 1 2 2	7 8 9 10	25 21 29					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2	7 8 9	25 21					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2	7 8 9 10	25 21 29					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2	7 8 9 10 11 12	25 21 29 43 11					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2	7 8 9 10 11 12 13	25 21 29 43 11					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2	7 8 9 10 11 12 13	25 21 29 43 11 18 17					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2	7 8 9 10 11 12 13 14	25 21 29 43 11 18 17					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2	7 8 9 10 11 12 13	25 21 29 43 11 18 17					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2	7 8 9 10 11 12 13 14	25 21 29 43 11 18 17					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 3	7 8 9 10 11 12 13 14 15 16 17	25 21 29 43 11 18 17 12 18 34					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17	25 21 29 43 11 18 17 12 18 34 51					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17 18	25 21 29 43 11 18 17 12 18 34 51 22					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17	25 21 29 43 11 18 17 12 18 34 51					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17 18 19	25 21 29 43 11 18 17 12 18 34 51 22					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	25 21 29 43 11 18 17 12 18 34 51 22 18 29					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	25 21 29 43 11 18 17 12 18 34 51 22 18 29 48					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	25 21 29 43 11 18 17 12 18 34 51 22 18 29 48 21					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	25 21 29 43 11 18 17 12 18 34 51 22 18 29 48					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	25 21 29 43 11 18 17 12 18 34 51 22 18 29 48 21					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	25 21 29 43 11 18 17 12 18 34 51 22 18 29 48 21 39 32					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	25 21 29 43 11 18 17 12 18 34 51 22 18 29 48 21 39 32 18					10	MintJulei	errvs Dolan os Blake		Vers
1 1 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	25 21 29 43 11 18 17 12 18 34 51 22 18 29 48 21 39 32					10	MintJulei	errvs Dolan os Blake		Vers

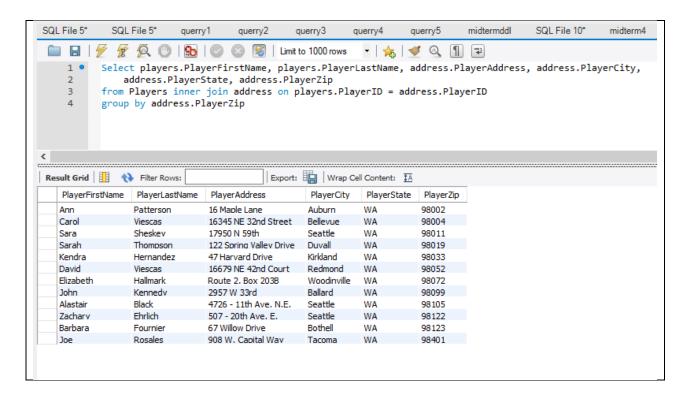
TourneyID	TourneyDate	TourneyLocation		GameID	TourneyID	HomeTeam	AwayTeam	WinningTea
1	9/4/2016	Red Rooster Arena	- I	1	1	1	2	1
2	9/11/2016	Thunderbird Arena		2	1	3	4	4
				3	1	5	8	6 7
;	9/18/2016	Bolero Arena		5	2	3	8	1
1	9/25/2016	Imperial Arena		6	2	4	2	4
	10/2/2016	Sports World Arena		7	2	5	7	7
	10/9/2016	Totem Arena		8	2	8	6	6
,	10/16/2016	Acapulco Arena		9	3	2	3	2
}	10/23/2016	Red Rooster Arena		10	3	1	4	4
	10/30/2016	Thunderbird Arena	' II-	11 12	3	7 5	8	7
				13	4	1	5	5
0	11/6/2016	Bolero Arena		14	4	2	6	2
1	11/17/2016	Imperial Arena		15	4	3	7	3
2	11/20/2016	Sports World Arena		16	4	4	8	8
.3	11/27/2016	Totem Arena		17	5	6	1	6
14	12/4/2016	Acapulco Arena		18	5	5	2	2
15	7/16/2017	Red Rooster Arena		19	5	8	3	3
		Thunderbird Arena		20	5	7	7	7
16	7/19/2017			22	6	3	5	5
17	7/26/2017	Bolero Arena		23	6	2	8	8
18	11/2/2017	Sports World Arena		24	6	4	6	6
19	11/9/2017	Imperial Arena		25	7	8	1	8
20	11/16/2017	Totem Arena		26	7	7	2	2
ULL	NULL	NULL		27 rneymatche	7	6	3	6

4. Perform following queries:

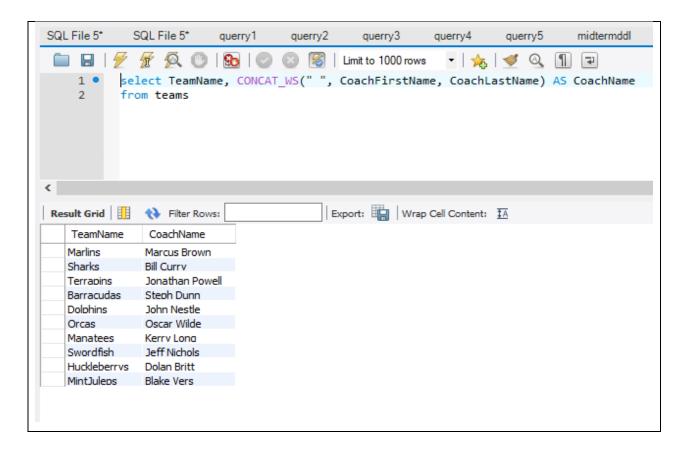
a) Provide locations where association is holding tournaments



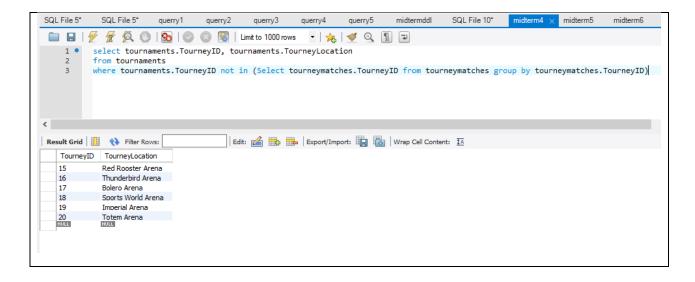
b) Display all players and their address formatted suitably for a mailing list, sorted by zip code.



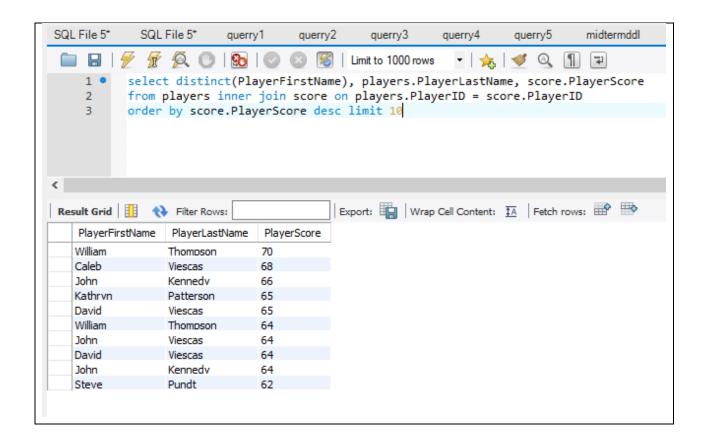
c) Display teams and name of their head coach.



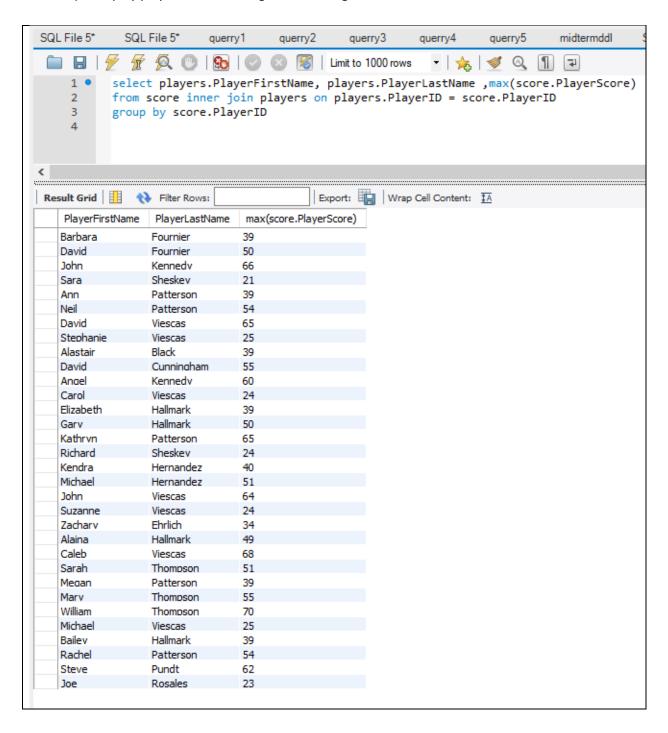
d) Show tournaments that have not been played yet.



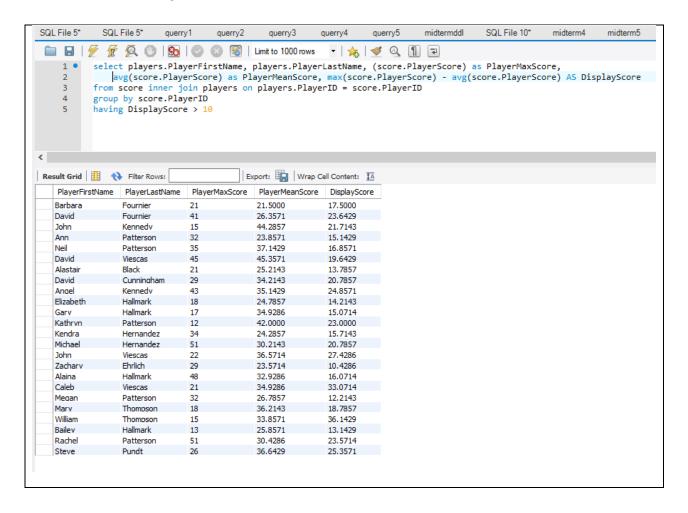
e) Display name of top 10 scorers (Players who scored highest) along with their score.



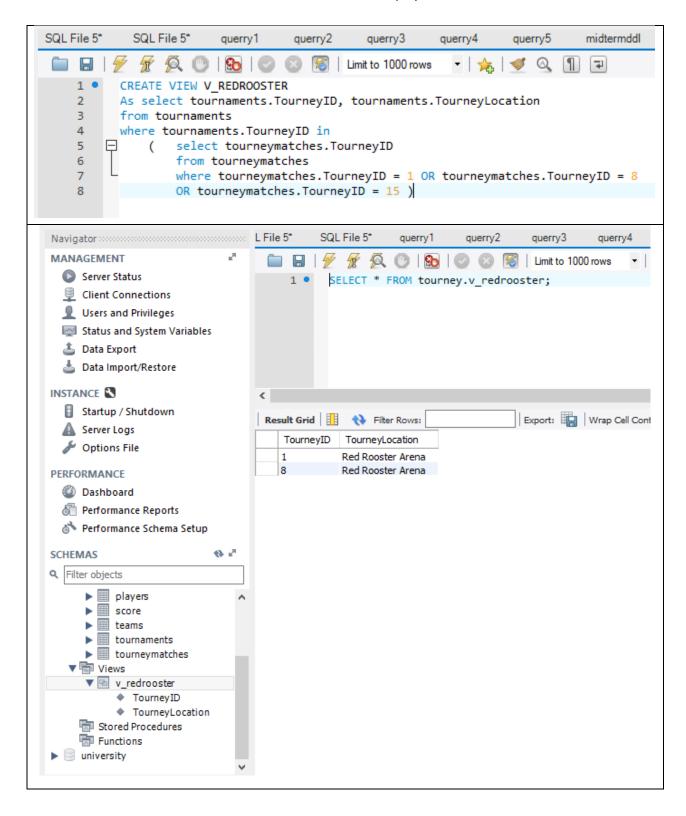
f) Display players' names along with their highest score.



g) List the player (names) whose highest score in a game is more than 10 points higher than their average.



5. Create a view of all the tournaments that have been played at Red Rooster.



6. Connect to this database using Python

```
midtempython.py x

import mysql.connector

cnx = mysql.connector.connect(user='root', password='cloudichigo',host='127.0.0.1',database='tourney')

cursor = cnx.cursor()

query = (" select tournaments.TourneyLocation from tournaments inner join tourneymatches on tournaments.TourneyID = tourneymatches.TourneyID group by tournaments.TourneyID ")

cursor.execute(query)

for (TourneyLocation) in cursor:
    print(TourneyLocation)

cursor.close()

cnx.close()
```

a) Display name of all the tournaments that were previously held.

```
C:\Python27\python.exe
                                                                                            ×
>>> import mysql.connector
>>> cnx = mysql.connector.connect(user='root', password='cloudichigo',host='127.0.
0.1',database='tourney')
>>> cursor = cnx.cursor()
>>>
neymatches on tournaments.TourneyID = tourneymatches.TourneyID group by tournaments s.TourneyID = tourneymatches.TourneyID group by tournament
>>> cursor.execute(query)
>>>
>>> for (TourneyLocation) in cursor:
         print(TourneyLocation)
(u'Red Rooster Arena'
(u'Thunderbird Arena',)
(u'Bolero Arena',)
(u'Imperial Arena',)
(u'Sports World Arena',)
(u'Totem Arena',)
(u'Acapulco Arena',)
(u'Red Rooster Arena',)
(u'Thunderbird Arena',)
(u'Bolero Arena',)
(u'Imperial Arena',)
(u'Sports World Arena',)
(u'Totem Arena',)
(u'Acapulco Arena',)
>>> cursor.close()
>>> cnx.close()
>>>
```