

BUDT703: Database Management Systems

Submitted to : Professor Adam Lee

Submitted by : Project_0507_13

PeakPerformance Partners

Transforming Teams To Triumph

Team members:

Amoghvarsh Kulkarni

Sai Thanmayi Karpurapu

Vedant Kamat


Devni Shah

Step 1: Project Proposal

Collected data from University of Maryland's sports website having information about the schedule of matches which were played from the year 2000 to 2023.

Data Source:

<https://umterps.com/sports/softball/schedule>



Buy TicketsDonate

Sports ^Tickets ^Terrapin Club ^Fan Info & Gameday ^About ^Shop ^

MEN'S SPORTS

Baseball							
Basketball							
Football							
Golf							
Lacrosse							
Outdoor Track & Field							
Soccer							
Wrestling							

WOMEN'S SPORTS

Basketball							
Cross Country							
Field Hockey							
Golf							
Gymnastics							
Indoor Track & Field							
Lacrosse							
Outdoor Track & Field							
Soccer							
Softball							
Tennis							
Volleyball							

Selected the year for which we wanted to analyze the data-

Add To Calendar

T Text Only

2014 ^

All Games ^

HOVR APEX 3 & HOVR SONIC 5

Selected text only in order to view the data in table format-

Maryland

2014 Softball Schedule

Overall 11-35 .239

Conference 7-16 .304

Streak W3

Home 8-6

Away 3-18

Neutral 0-11

Date	Time	At	Opponent	Location	Tournament	Result
Feb 7 (Fri)	11:00 AM	Neutral	DePaul	Miami, Fla.		L 4-8
Feb 7 (Fri)	4:00 PM	Away	Florida International	Miami, Fla.		L 9-14
Feb 8 (Sat)	10:00 AM	Neutral	Jacksonville	Miami, Fla.		L 2-6
Feb 8 (Sat)	1:00 PM	Neutral	Florida International	Miami, Fla.		L 5-6
Feb 9 (Sun)	11:00 AM	Neutral	Jacksonville	Miami, Fla.		L 0-1
Feb 14 (Fri)	3:00 PM	Away	Mississippi State	Boca Raton, Fla.		L 1-3
Feb 14 (Fri)	5:30 PM	Away	South Carolina	Boca Raton, Fla.		W 8-4

We considered all the important rows such as date of match, location of match, opponent details and the final match result. Analyzed the data on MS Word and MS excel and then formed the mission statement and mission objectives accordingly.

We identified Entities, Relations, Primary and Foreign keys using which we made our ER diagram and Relational schema.

MISSION STATEMENT

As consultants, our mission is to serve as the catalyst for the University of Maryland women's softball team's transformation, to equip the team with actionable recommendations, enabling them to elevate performance standards and establish a legacy of sporting achievement.

MISSION OBJECTIVES:

- OBJECTIVE 1: Analyze the top 10 teams where Maryland has lost against the maximum number of times
- OBJECTIVE 2: Analyze the top 10 away locations where Maryland has won the most number of times

- OBJECTIVE 3: Analyze the top 10 matches where Maryland has won with a shutout
- OBJECTIVE 4: Analyze the top 10 of teams against which Maryland has won the maximum number of times
- OBJECTIVE 5: Analyze the top 10 teams against whom Maryland has won by the highest margin

RELATIONAL SCHEMAS

Entities, Attributes and Primary Keys:

Match (**mchId**, mchAt, mchScrUmd, mchScrOpp, locId)

Date (**datMch**, datDay)

Location (**locId**, locCty, locState)

Opponent (**oppId**, oppName)

Play (**mchId**, **datMch**, **oppId**)

Host: Binary Relationship

1 location hosts 1 or more matches

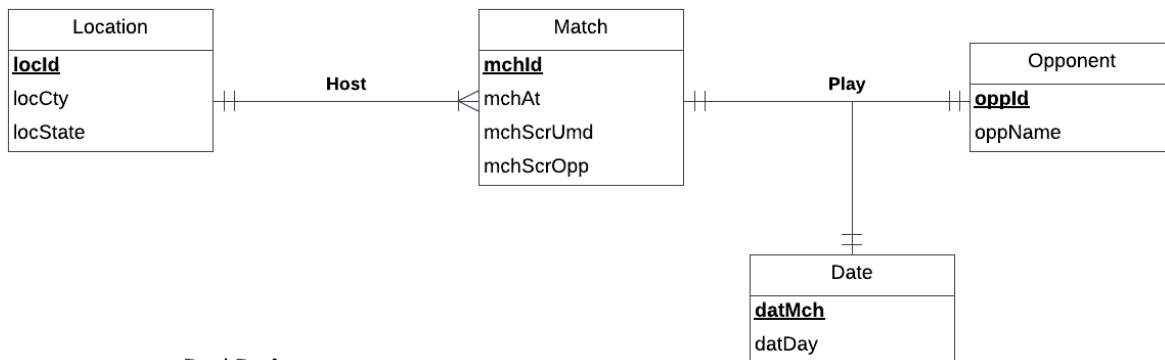
1 match to 1 location

Play: Ternary Relationship

1 match and 1 opponent to 1 date

1 match and 1 date to 1 opponent

1 date and 1 opponent to 1 match



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Business rules based on the objectives:

Relation	Foreign Key	Base Relation	Primary Key	Business rule	Constraint: ON DELETE	Business rule	Constraint: ON UPDATE
Host	locId	Location	locId	R1	CASCADE	R2	CASCADE
Host	mchId	Match	mchId	R3	CASCADE	R4	CASCADE
Play	mchId	Match	mchId	R5	CASCADE	R6	CASCADE
Play	datMch	Date	datMch	R7	CASCADE	R8	CASCADE
Play	oppId	Opponent	oppId	R9	CASCADE	R1	CASCADE

Step 2: Data Cleaning

a) Copy pasted the entire columns in Microsoft word in order to remove spaces using find replace function.

Apr 19 (Sat)	2:00 PM	Away	Virginia	Charlottesville, Va.	L 1-5
Apr 2 (Wed)	5:00 PM	Home	George Mason	College Park, Md.	W 11-1
Apr 2 (Wed)	7:00 PM	Home	George Mason	College Park, Md.	W 8-3
Apr 23 (Wed)	5:00 PM	Home	Morgan State	College Park, Md.	W 8-0
Apr 23 (Wed)	7:00 PM	Home	Morgan State	College Park, Md.	W 9-1
Apr 26 (Sat)	3:00 PM	Home	North Carolina	College Park, Md.	W 2-0
Apr 26 (Sat)	5:00 PM	Home	North Carolina	College Park, Md.	L 1-5
Apr 29 (Tue)	5:00 PM	Home	George Washington	College Park, Md.	W 6-0
Apr 29 (Tue)	7:00 PM	Home	George Washington	College Park, Md.	W 6-0
Apr 30 (Wed)	5:00 PM	Home	Towson	College Park, Md.	W 3-0
Apr 30 (Wed)	7:00 PM	Home	Towson	College Park, Md.	W 8-0
Apr 6 (Sun)	12:00 PM	Home	Georgia Tech	College Park, Md.	L 1-5
Apr 6 (Sun)	2:00 PM	Home	Georgia Tech	College Park, Md.	L 0-1

b) Arranged the data into tabular format using text to table function.

c) Removed the 'Time result' column and 'L' and 'W' from the tournament result.

d) Added quotes and brackets.

"Apr 1"	"(Sat)"	"TBD"	"Neutral"	"UT Martin"	"Marietta"	"Ga"	"1-12"
"Apr 11"	"(Tue)"	"TBD"	"Away"	"Coppin State"	"Baltimore"	"MD"	"17-2"
"Apr 11"	"(Tue)"	"TBD"	"Away"	"Coppin State"	"Baltimore"	"MD"	"15-2"
"Apr 12"	"(Wed)"	"TBD"	"Home"	"Morgan State"	"College Park"	"Md."	"18-6"
"Apr 12"	"(Wed)"	"TBD"	"Home"	"Morgan State"	"College Park"	"Md."	"0-9"
"Apr 15"	"(Sat)"	"TBD"	"Away"	"UMBC"	"Baltimore"	"MD"	"0-15"
"Apr 15"	"(Sat)"	"TBD"	"Away"	"UMBC"	"Baltimore"	"MD"	"3-18"
"Apr 17"	"(Mon)"	"TBD"	"Away"	"Trenton"	"State Ewing"	"NJ"	"2-13"
"Apr 17"	"(Mon)"	"TBD"	"Away"	"Trenton"	"State Ewing"	"NJ"	"0-11"
"Apr 20"	"(Thu)"	"TBD"	"Neutral"	"North Carolina"	"Tallahassee"	"FL"	"0-8"
"Apr 21"	"(Fri)"	"TBD"	"Neutral"	"Virginia"	"Tallahassee"	"FL"	"0-8"
"Apr 24"	"(Mon)"	"TBD"	"Home"	"Anne Arundel CC"	"College Park"	"Md."	"6-8"
"Apr 24"	"(Mon)"	"TBD"	"Home"	"Anne Arundel CC"	"College Park"	"Md."	"1-2"
"Apr 26"	"(Wed)"	"TBD"	"Away"	"George Mason"	"Fairfax"	"VA"	"1-9"

e) Pasted the data into Excel worksheet and removed null and empty cells.

	A	B	C	D	E	F	G	H
1								
2	'04/10/2004'	'Sat '	'Away '	' North Carolina State '	'Raleigh '	' N.C. '	0	5
3	'04/10/2004'	'Sat '	'Away '	' North Carolina State '	'Raleigh '	' N.C. '	1	0
4	'04/11/2004'	'Sun '	'Away '	' North Carolina '	'Chapel Hill '	' N.C. '	0	1
5	'04/11/2004'	'Sun '	'Away '	' North Carolina '	'Chapel Hill '	' N.C. '	3	5
6	'04/15/2004'	'Thu '	'Home '	' St Francis Pa '	'College Park '	' Md. '	9	0
7	'04/15/2004'	'Thu '	'Home '	' St Francis Pa '	'College Park '	' Md. '	10	2
8	'04/17/2004'	'Sat '	'Away '	' James Madison '	'Harrisonburg '	' Va. '	5	0
9	'04/17/2004'	'Sat '	'Away '	' James Madison '	'Harrisonburg '	' Va. '	3	0
10	'04/18/2004'	'Sun '	' Home '	' Florida State '	'College Park '	' Md. '	0	7

f) Created primary keys for Match as mchId, date as datMch, Location as locId and for Opponent as oppId.

g) Arranged the data as per the entities and created tables.

	A	B	C	D	E	F	G	H	I	J	K
1	mchId	datMch	oppid								
2	m200401	'04/10/2004'	op72	(	,	)		'	('m200401','04/10/2004','op72'),		
3	m200402	'04/10/2004'	op72	(	,	)		'	('m200402','04/10/2004','op72'),		
4	m200403	'04/11/2004'	op08	(	,	)		'	('m200403','04/11/2004','op08'),		
5	m200404	'04/11/2004'	op08	(	,	)		'	('m200404','04/11/2004','op08'),		
6	m200405	'04/15/2004'	op216	(	,	)		'	('m200405','04/15/2004','op216'),		
7	m200406	'04/15/2004'	op216	(	,	)		'	('m200406','04/15/2004','op216'),		
8	m200407	'04/17/2004'	op126	(	,	)		'	('m200407','04/17/2004','op126'),		
9	m200408	'04/17/2004'	op126	(	,	)		'	('m200408','04/17/2004','op126'),		
10	m200409	'04/18/2004'	op137	(	,	)		'	('m200409','04/18/2004','op137'),		
11	m200410	'04/18/2004'	op137	(	,	)		'	('m200410','04/18/2004','op137'),		
12	m200411	'04/25/2004'	op84	(	,	)		'	('m200411','04/25/2004','op84'),		
13	m200412	'04/25/2004'	op84	(	,	)		'	('m200412','04/25/2004','op84'),		
14	m200413	'04/29/2004'	op62	(	,	)		'	('m200413','04/29/2004','op62'),		
15	m200414	'04/29/2004'	op62	(	,	)		'	('m200414','04/29/2004','op62'),		
16	m200415	'04/06/2004'	op67	(	,	)		'	('m200415','04/06/2004','op67'),		
17	m200416	'04/06/2004'	op67	(	,	)		'	('m200416','04/06/2004','op67'),		
18	m200417	'04/08/2004'	op222	(	,	)		'	('m200417','04/08/2004','op222'),		
19	m200418	'04/08/2004'	op222	(	,	)		'	('m200418','04/08/2004','op222'),		
20	m200419	'04/20/2004'	op232	(	,	)		'	('m200419','04/20/2004','op232'),		

Step 3: Creating tables in SQL

DROP TABLE:

--SQL DROP TABLES:

```
DROP TABLE IF EXISTS [PPP.Play];
DROP TABLE IF EXISTS [PPP.Opponent];
DROP TABLE IF EXISTS [PPP.Match];
DROP TABLE IF EXISTS [PPP.Location];
DROP TABLE IF EXISTS [PPP.Date];
```

CREATE TABLE:

--SQL CREATE TABLES:

```
CREATE TABLE [PPP.Date] (
    datMch DATE NOT NULL,
    datDay CHAR (3) NOT NULL,
    CONSTRAINT pk_Date_datMch PRIMARY KEY (datMch))

CREATE TABLE [PPP.Location] (
    locId CHAR(5) NOT NULL,
    locCty VARCHAR (20),
    locState VARCHAR (5),
    CONSTRAINT pk_Location_locId PRIMARY KEY (locId))

CREATE TABLE [PPP.Match] (
    mchId CHAR(10) NOT NULL,
    mchAt VARCHAR (10),
    mchScrUmd INT,
    mchScrOpp INT,
    locId CHAR(5) NOT NULL,
    CONSTRAINT pk_Match_mchId PRIMARY KEY (mchId),
    CONSTRAINT fk_Match_locId FOREIGN KEY (locId)
        REFERENCES [PPP.Location] (locId)
        ON DELETE CASCADE ON UPDATE CASCADE)
```

```
CREATE TABLE [PPP.Opponent] (
    oppId CHAR(5) NOT NULL,
    oppName VARCHAR(20),
    CONSTRAINT pk_Opponent_oppId PRIMARY KEY (oppId))
```

```
CREATE TABLE [PPP.Play] (
    mchId CHAR(10) NOT NULL,
    datMch DATE NOT NULL,
    oppId CHAR(5) NOT NULL
    CONSTRAINT pk_Play_mchId_datMch_oppId PRIMARY KEY (mchId,datMch,oppId),
    CONSTRAINT fk_Play_mchId FOREIGN KEY (mchId)
        REFERENCES [PPP.Match] (mchId)
        ON DELETE CASCADE ON UPDATE CASCADE,
    CONSTRAINT fk_Play_datMch FOREIGN KEY (datMch)
        REFERENCES [PPP.Date] (datMch)
        ON DELETE CASCADE ON UPDATE CASCADE,
    CONSTRAINT fk_Play_oppId FOREIGN KEY (oppId)
        REFERENCES [PPP.Opponent] (oppId)
        ON DELETE CASCADE ON UPDATE CASCADE)
```

INSERT VALUES:

--SQL INSERT DATA:

```
]INSERT INTO [PPP.Date] VALUES
```

```
( '04/01/2000', 'Sat' ),
( '04/12/2000', 'Wed' ),
( '04/14/2000', 'Fri' ),
( '04/16/2000', 'Sun' ),
( '04/22/2000', 'Sat' )
```

```
]INSERT INTO [PPP.Location] VALUES
```

```
( 'lo001', 'Marietta', 'GA' ),
( 'lo002', 'Baltimore', 'MD' ),
( 'lo003', 'College Park', 'MD' ),
( 'lo004', 'State Ewing', 'NJ' ),
( 'lo005', 'Tallahassee', 'FL' )
```

```
INSERT INTO [PPP.Match] VALUES
```

```
( 'm200001', 'Home', 5, 0, 'lo003' ),
( 'm200002', 'Home', 6, 1, 'lo003' ),
( 'm200003', 'Home', 4, 2, 'lo003' ),
( 'm200004', 'Home', 4, 1, 'lo003' ),
( 'm200005', 'Home', 2, 3, 'lo010' )
```



```

INSERT INTO [PPP.Opponent] VALUES
('op01','Robert Morris'),
('op02','Fiu'),
('op03','Binghamton'),
('op04','Mount St. Marys'),
('op05','South Carolina')
INSERT INTO [PPP.Play] VALUES

```

```

('m200001','04/01/2000','op212'),
('m200002','04/01/2000','op212'),
('m200003','04/12/2000','op62'),
('m200004','04/12/2000','op62'),
('m200005','04/14/2000','op08')

```

TABLES:

DATE

Results		Messages	
	datMch	datDay	
1	2000-02-18	Fri	
2	2000-02-19	Sat	
3	2000-02-20	Sun	
4	2000-03-04	Sat	
5	2000-03-05	Sun	
6	2000-03-09	Thu	
7	2000-03-10	Fri	
8	2000-03-11	Sat	

Query executed succes... doitsqlx.rhsmith.umd.edu,97... AD\amoghk96 (68) BUDT703_Project_0507_13 00:00:00 788 rows

LOCATION

Results		Messages	
	locId	locCity	locState
1	lo001	Marietta	GA
2	lo002	Baltimore	MD
3	lo003	College Park	MD
4	lo004	State Ewing	NJ
5	lo005	Tallahassee	FL
6	lo006	Fairfax	VA
7	lo007	Princess Anne	MD
8	lo008	Emmitsburg	MD

Query executed successf... doitsqlx.rhsmith.umd.edu,97... AD\amoghk96 (68) BUDT703_Project_0507_13 00:00:00 85 rows

MATCH

Results Messages					
	mchld	mchAt	mchScrUmd	mchScrOpp	locl
1	m200001	Home	5	0	lo003
2	m200002	Home	6	1	lo003
3	m200003	Home	4	2	lo003
4	m200004	Home	4	1	lo003
5	m200005	Home	2	3	lo010
6	m200006	Away	3	4	lo022
7	m200007	Home	5	3	lo003
8	m200008	Away	2	6	lo005

Query executed succ... doitsqlx.rhsmith.umd.edu,97... AD\amoghk96 (68) BUDT703_Project_0507_13 00:00:00 1,211 rows

OPPONENT

Results Messages		
	oppld	oppName
1	op01	robert morris
2	op02	fiu
3	op03	binghamton
4	op04	mount st. marys
5	op05	south carolina
6	op06	drexel
7	op07	southern illinois
8	op08	North Carolina

Query executed succes... doitsqlx.rhsmith.umd.edu,97... AD\amoghk96 (68) BUDT703_Project_0507_13 00:00:00 257 rows

PLAY

Results Messages			
	mchld	datMch	oppld
1	m200001	2000-04-01	op212
2	m200002	2000-04-01	op212
3	m200003	2000-04-12	op62
4	m200004	2000-04-12	op62
5	m200005	2000-04-14	op08
6	m200006	2000-04-16	op143
7	m200007	2000-04-22	op84
8	m200008	2000-04-29	op137

Query executed succ... doitsqlx.rhsmith.umd.edu,97... AD\amoghk96 (68) BUDT703_Project_0507_13 00:00:00 1,195 rows

In SQL only 1000 rows can be inserted into one single insert command, due to which we used 2 insert commands for inputting values in Match and Play table.

Step 4: Executing queries in SQL as per the mission objectives

Query 1

What are the details of the top 10 teams which Maryland has won against keeping a Shutout?

```
SELECT TOP 10 o.oppName AS 'Opponent Name',  
COUNT(m.mchId) AS 'Number of Shutouts'  
FROM [PPP.Match] m, [PPP.Opponent] o, [PPP.Play] p  
WHERE p.oppId=o.oppId  
AND m.mchScrOpp=0  
AND m.mchId=p.mchId  
AND m.mchScrUmd>m.mchScrOpp  
GROUP BY p.oppId, o.oppName  
ORDER BY 'Number of Shutouts' DESC
```

	Opponent Name	Number of Shutouts
1	George Washington	8
2	Georgetown	7
3	Virginia	7
4	Delaware State	6
5	James Madison	6
6	Howard	6
7	Maryland Estn Shore	6
8	Towson	6
9	George Mason	5
10	Boston College	4

✓ Query execu... | doitsqlx.rhsmith.umd.edu,97... | AD\amoghk96 (68) | BUDT703_Project_0507_13 | 00:00:00 | 10 rows

Query 2

What are the details of the top 10 away locations where Maryland has won the most number of times?

```
SELECT TOP 10 l.locState AS 'Location State',  
l.locCty AS 'Location City',  
COUNT (CASE WHEN m.mchScrUmd > m.mchScrOpp THEN 1 END) AS 'Match Won'  
FROM [PPP.Match] m, [PPP.Location] l  
WHERE l.locId=m.locId  
AND mchAt='Away'  
GROUP BY l.locCty, l.locId, locState  
ORDER BY 'Match Won' DESC
```

	Location State	Location City	Match Won
1	FL	Tallahassee	19
2	GA	Marietta	13
3	FL	Tampa	10
4	NC	Raleigh	9
5	VA	Fairfax	9
6	NC	Chapel Hill	8
7	VA	Charlottesville	8
8	FL	Boca Raton	7
9	NY	Brooklyn	6
10	VA	Blacksburg	6

✓ Query execu... | doitsqlx.rhsmith.umd.edu,97... | AD\amoghk96 (68) | BUDT703_Project_0507_13 | 00:00:00 | 10 rows

Query 3

What are the details of the top 10 teams that Maryland has lost against the maximum number of times?

```
SELECT TOP 10 o.oppName AS 'Opponent Name',
COUNT (CASE WHEN m.mchScrUmd < m.mchScrOpp THEN 1 END)
AS 'Number of Times Match Lost'
FROM [PPP.Match] m, [PPP.Opponent] o, [PPP.Play] p
WHERE p.oppId=o.oppId
AND m.mchId=p.mchId
GROUP BY p.oppId, o.oppName
ORDER BY COUNT (CASE WHEN m.mchScrUmd < m.mchScrOpp THEN 1 END) DESC
```

	Opponent Name	Number of Times Match Lost
1	Georgia Tech	34
2	Florida State	33
3	North Carolina	28
4	Michigan	23
5	Virginia Tech	20
6	Virginia	20
7	Ohio State	18
8	Penn State	17
9	Michigan State	17
10	Boston College	15

✓ Query execu... | doitsqlx.rhsmith.umd.edu,97... | AD\amoghk96 (68) | BUDT703_Project_0507_13 | 00:00:00 | 10 rows

Query 4

What are the details of the top 10 teams against which Maryland has won the maximum number of times?

```
SELECT TOP 10 o.oppName AS 'Opponent Name',  
COUNT (CASE WHEN m.mchScrUmd > m.mchScrOpp THEN 1 END) AS  
'Maryland wins'  
FROM [PPP.Match] m, [PPP.Opponent] o, [PPP.Play] p  
WHERE p.oppId=o.oppId  
AND m.mchId=p.mchId  
GROUP BY p.oppId,o.oppName  
ORDER BY 'Maryland wins' DESC
```

	Opponent Name	Maryland wins
1	Virginia	22
2	Delaware State	20
3	Towson	19
4	Boston College	17
5	North Carolina	17
6	Virginia Tech	15
7	George Mason	15
8	Penn State	14
9	Michigan State	13
10	Iowa	12

✓ Query executed succe... doitsqlx.rhsmith.umd.edu,97... AD\amoghk96 (68) BUDT703_Project_0507_13 00:00:00 10 rows

Query 5

What are the details of the top 10 teams against which Maryland has lost by the highest margin?

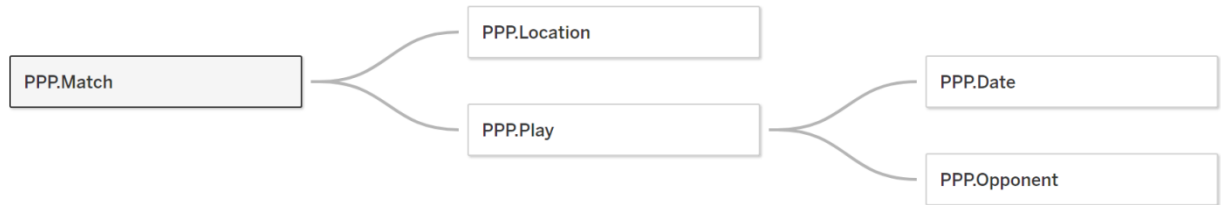
```
SELECT TOP 10 o.oppName AS 'Opponent Name',  
(m.mchScrUmd-m.mchScrOpp) AS 'Score Margin'  
FROM [PPP.Match] m, [PPP.Opponent] o, [PPP.Play] p  
WHERE p.oppId=o.oppId  
AND m.mchId=p.mchId  
AND m.mchScrUmd<m.mchScrOpp  
ORDER BY 'Score Margin' ASC
```

	Opponent Name	Score Margin
1	Nebraska	-22
2	Ohio State	-22
3	Clemson	-19
4	Illinois	-18
5	Alabama	-18
6	Texas	-17
7	Florida	-16
8	Michigan	-16
9	Oregon	-14
10	Arizona State	-14

✓ Query executed succe... doitsqlx.rhsmith.umd.edu,97... AD\amoghk96 (68) BUDT703_Project_0507_13 00:00:00 10 rows

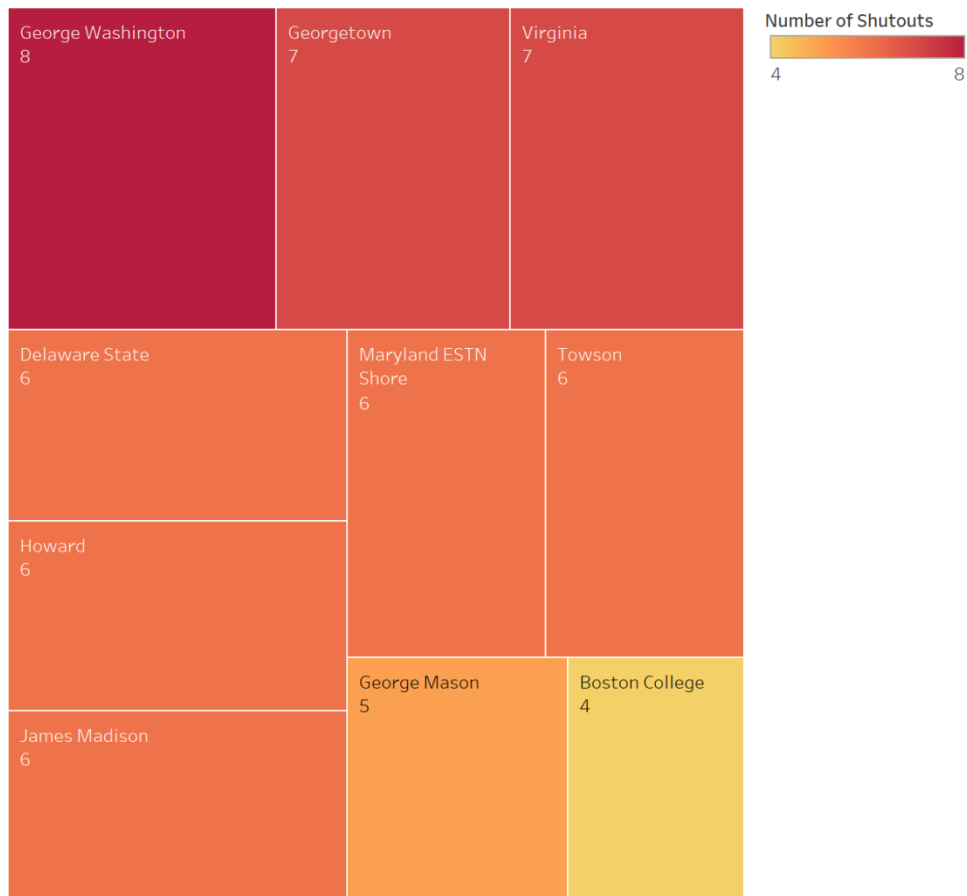
Step 5: Data Visualization using Tableau

Created connections between all 4 entities.



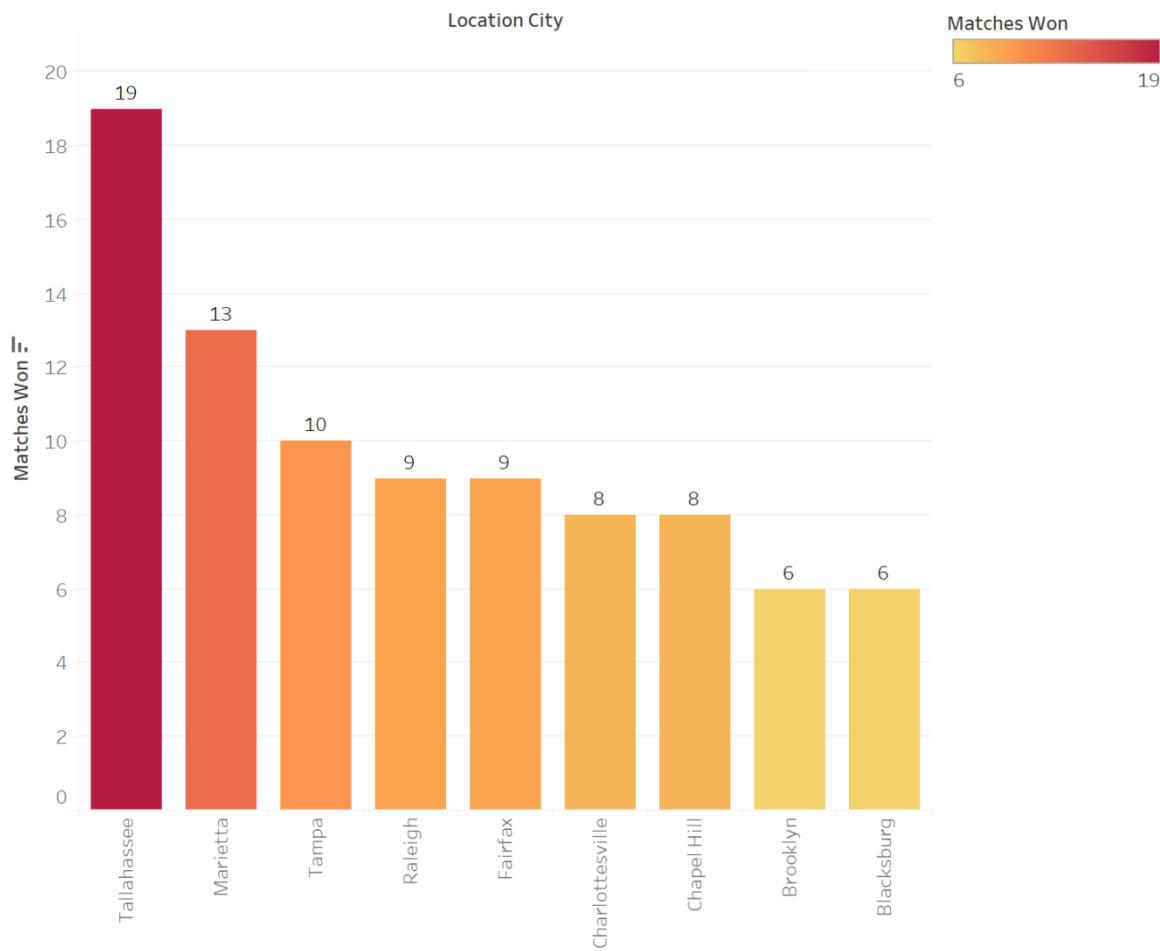
We created a calculated field for calculating Shutout and visualized it using Tree map as seen below.

What are the details of the top 10 teams which Maryland has won against keeping a Shutout?



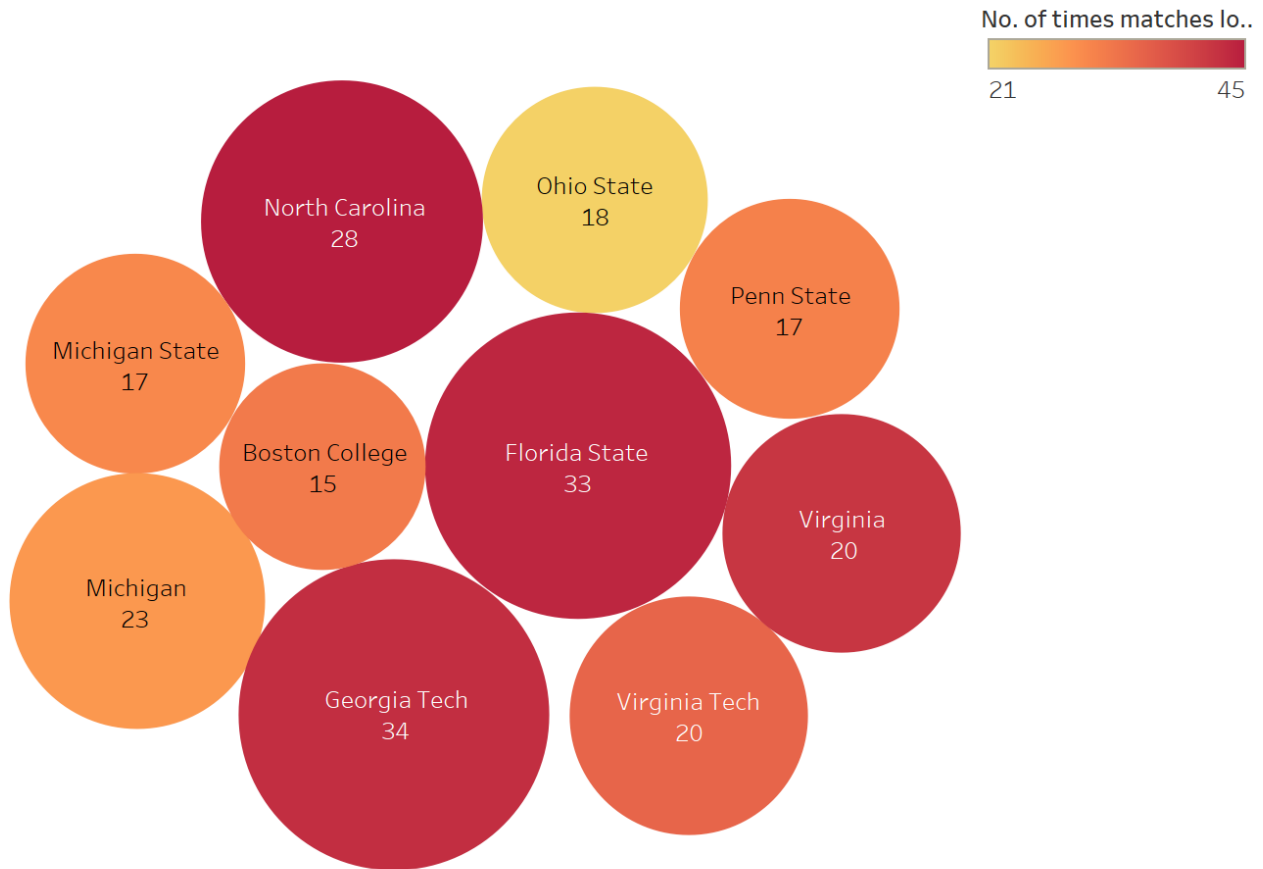
We created a calculated field for when Maryland's score was greater than Opponent's score. We also specified the location to be 'away' and visualized it using a Bar chart.

What are the details top 10 away locations where Maryland has won the most number of times?

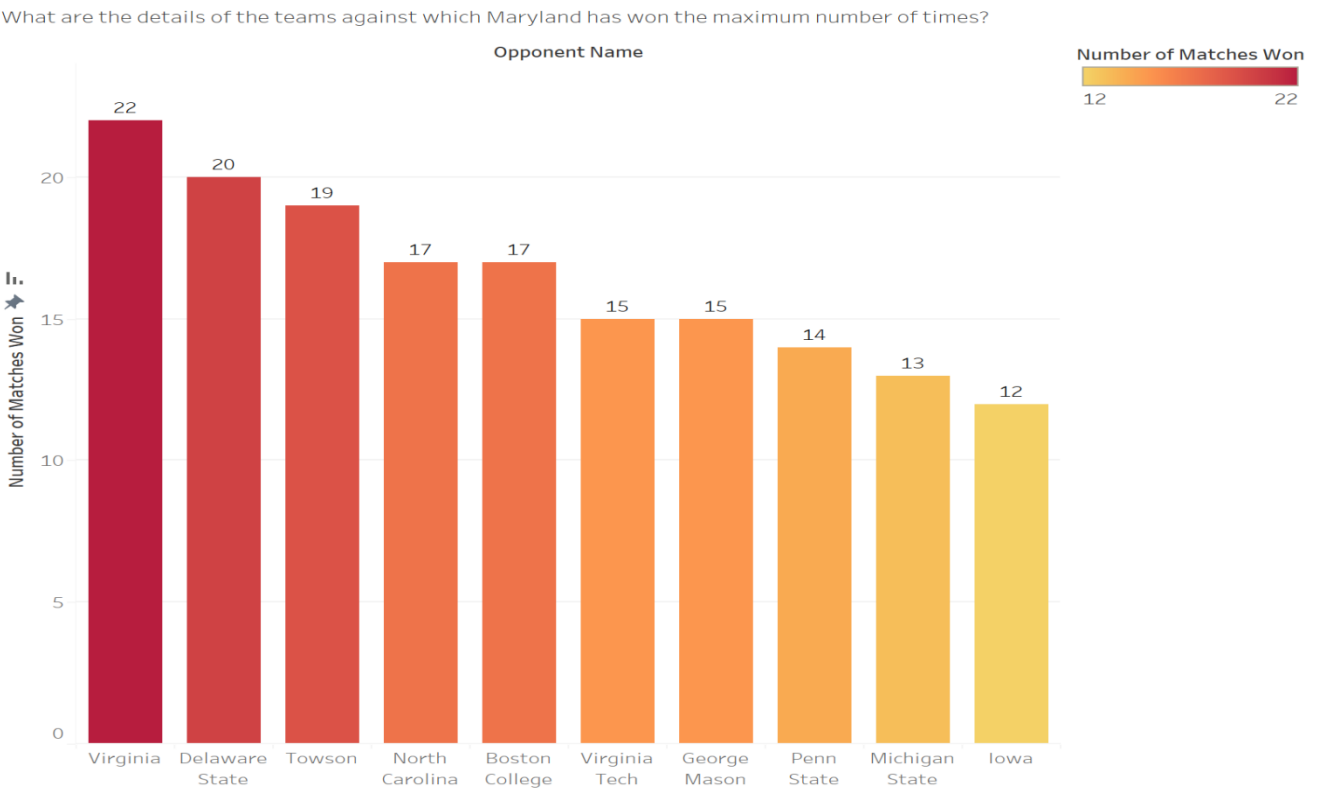


We created a calculated field for when Opponent's score was greater than Maryland's score and visualized its total count using a Bubble chart.

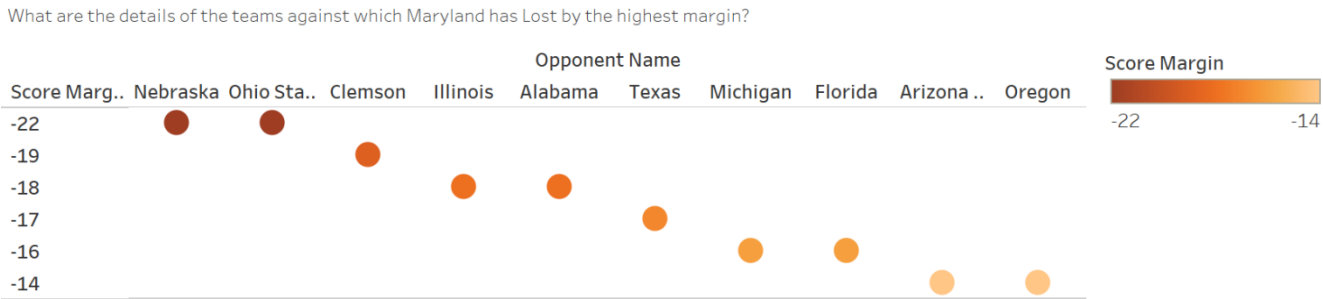
What are the details of the top 10 teams that Maryland has lost against the maximum number of times?



We created a calculated field for when Maryland's score was greater than Opponent's score and visualized their maximum wins using a Bar chart.

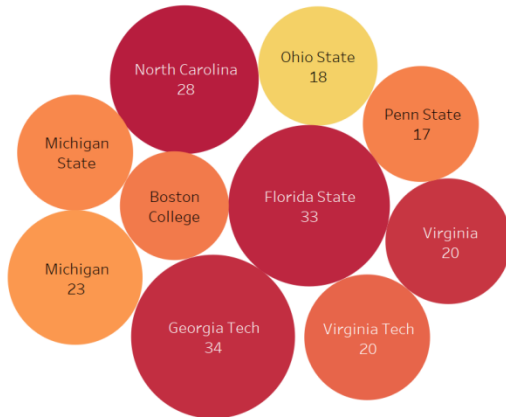


We created a calculated field for getting the Score Margin (Maryland Score-Opponent Score) and visualized it using a dot chart.

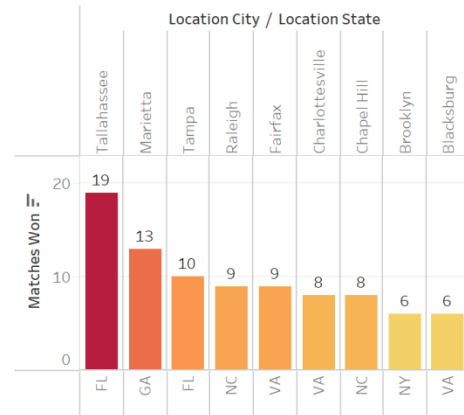


Final Tableau Dashboard-

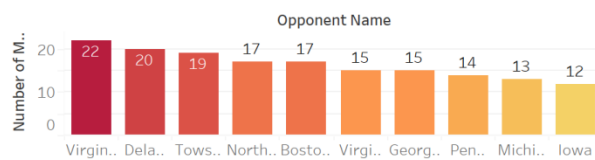
What are the details of the top 10 teams that Maryland has lost against the maximum number of times?



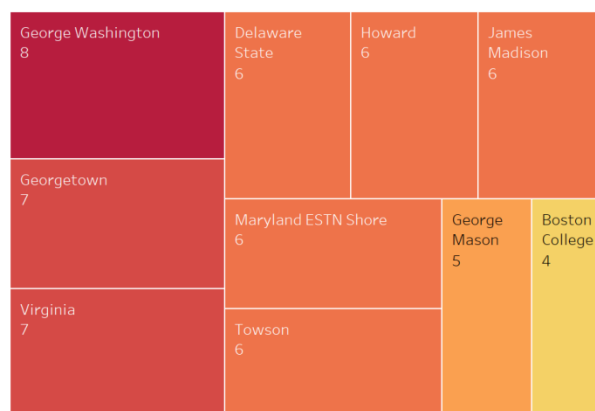
What are the details of top 10 locations where Maryland has won the most number of times?



What are the details of the top 10 teams against which Maryland has won the maximum number of times?



What are the details of the top 10 teams which Maryland has won against keeping a Shutout?



What are the details of the teams against which Maryland has Lost by the highest margin?



INSIGHTS:

- Number of “Shutouts” indicate impressive defensive play from the team, as it reflects a strong performance in preventing the opposing team's hitters from reaching home plate. It signifies effective pitching, solid fielding, and teamwork to keep the opponent from scoring. Maryland's team showed impressive defensive play against George Washington 8 times, Georgetown 7 times etc.
- In contrast, Maryland's defeat with the highest margins against teams like Nebraska, Ohio State, Clemson etc. show where their pitching, fielding and overall defense was weak. They should focus on defensive aspects of their game against these opponents.

- Maryland has dominated the most against teams like Virginia, Delaware State, Towson etc. They should be confident when playing against these teams.
- The maximum number of defeats against teams like Georgia Tech, Florida State, North Carolina etc. shed light on whom Maryland should practice more, get more fan support and improve their overall performance.