



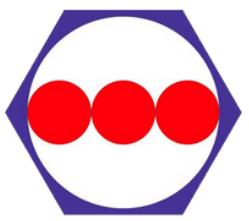
Projektovanje skladišta podataka

NHL GAME DATA

Enio Kurteši

IT27 / 2019

Projektovanje skladišta podataka



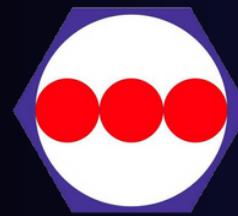
Istorija hokeja

01 Nacionalni sport u Kanadi

02 Prva utakmica 03.03.1875.

03 – "Knattleikr"





Pitanja

Koji tim je postigao najviše golova kod kuće u prvoj deceniji 21. veka?

OČEKIVANJE:

Buffalo

Koji tim je postigao najviše golova u gostima u prvoj deceniji 21. veka?

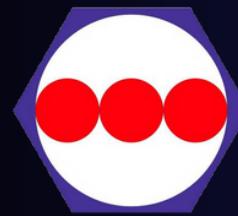
OČEKIVANJE:

New Jersey

Kakav je odnos postignutih golova i šuteva kada domaćin regularno pobedi u periodu 2008-2012?

OČEKIVANJE:

7.2%



Pitanja

Koji tim je imao najlošiju timsku odbranu u konferenciji PDT u periodu izmedju 2008-2012?

OČEKIVANJE:

San Jose

Koliko faulova je napravio Chicago kao domaćin u sezoni 2012?

OČEKIVANJE:

461

Koji sudija je dosudio najviše faulova u poslednje 3 sezone?

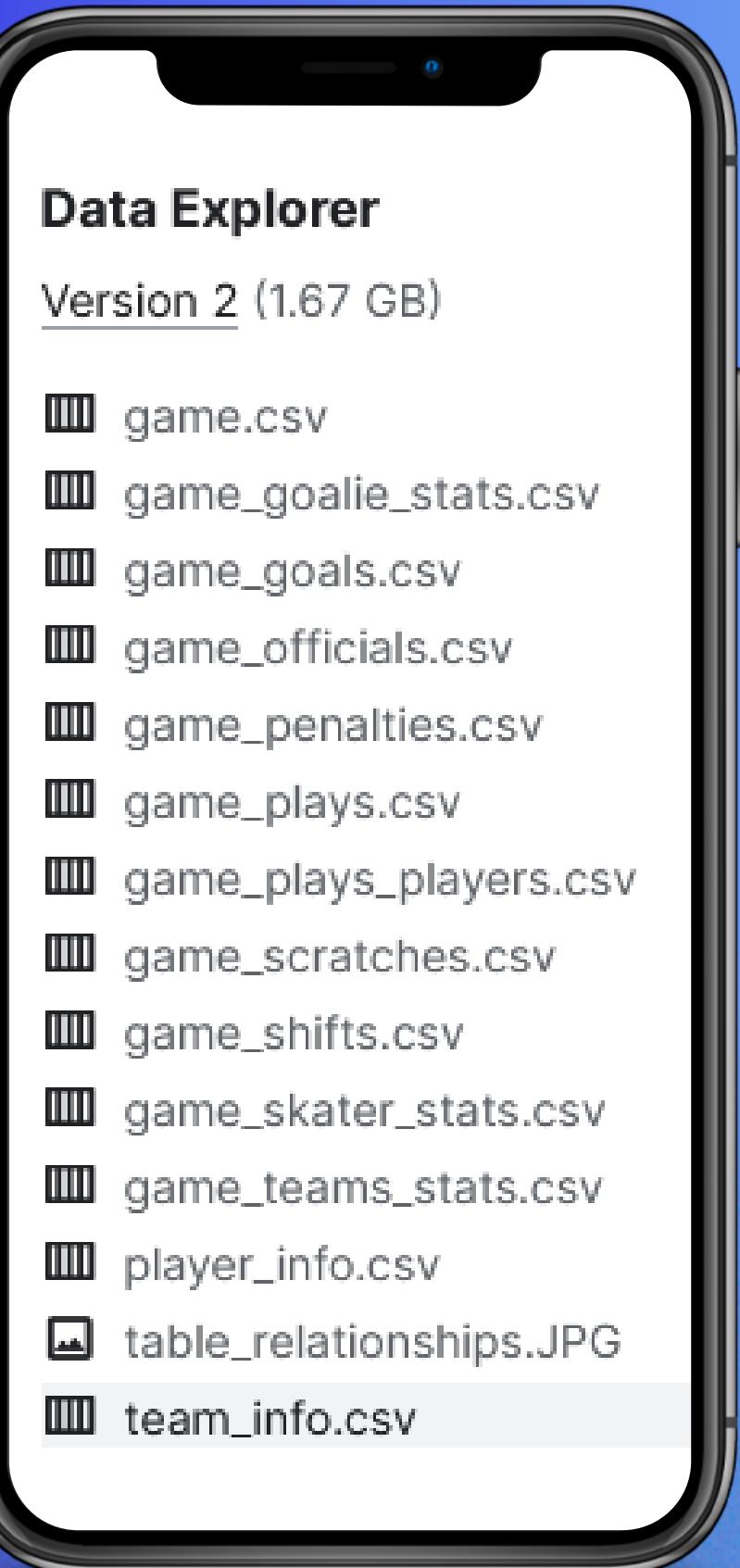
OČEKIVANJE:

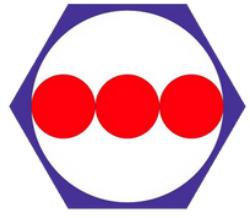
Derek Amell



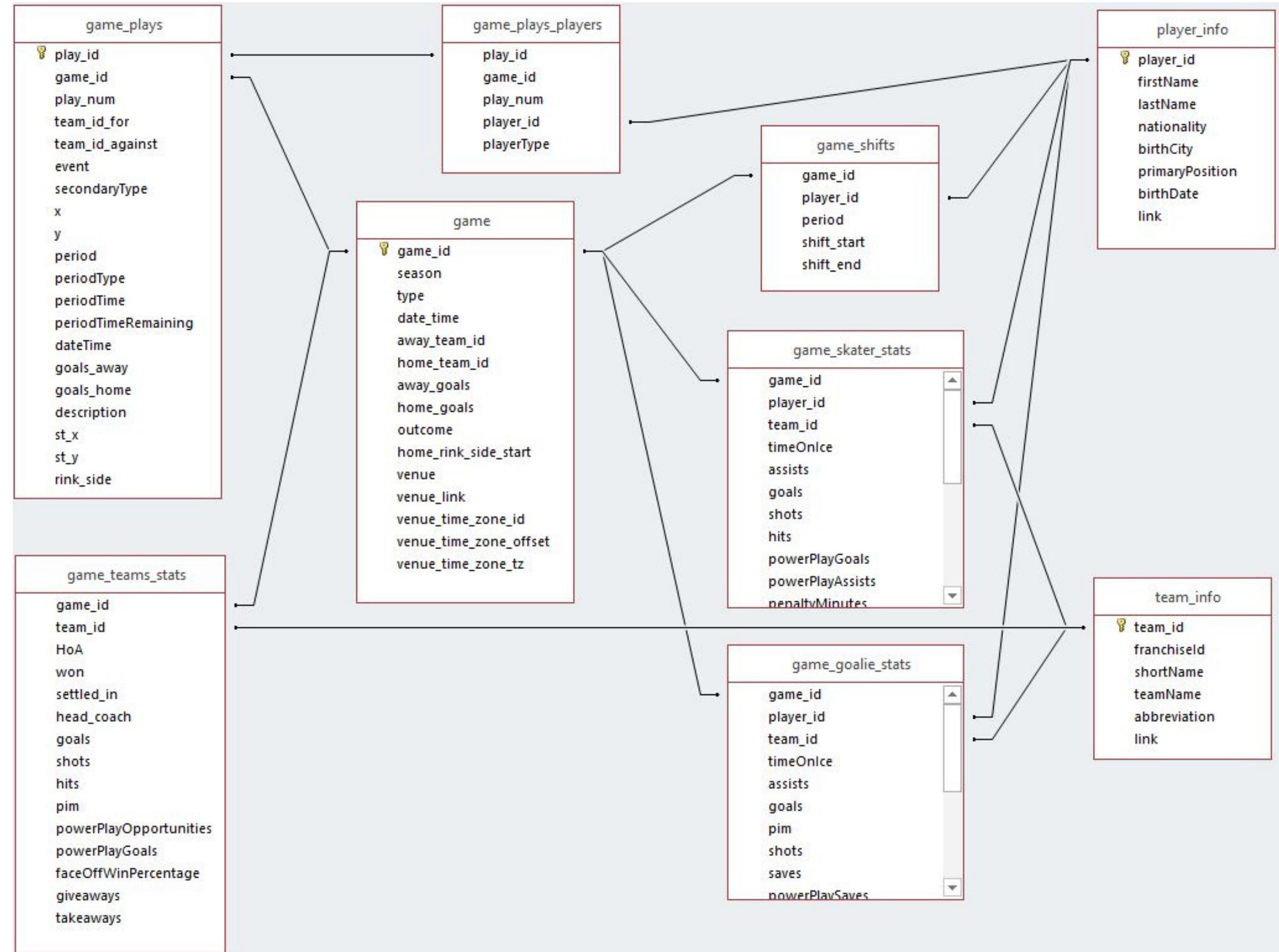
Izvor podataka

Kaggle: NHL Game Data

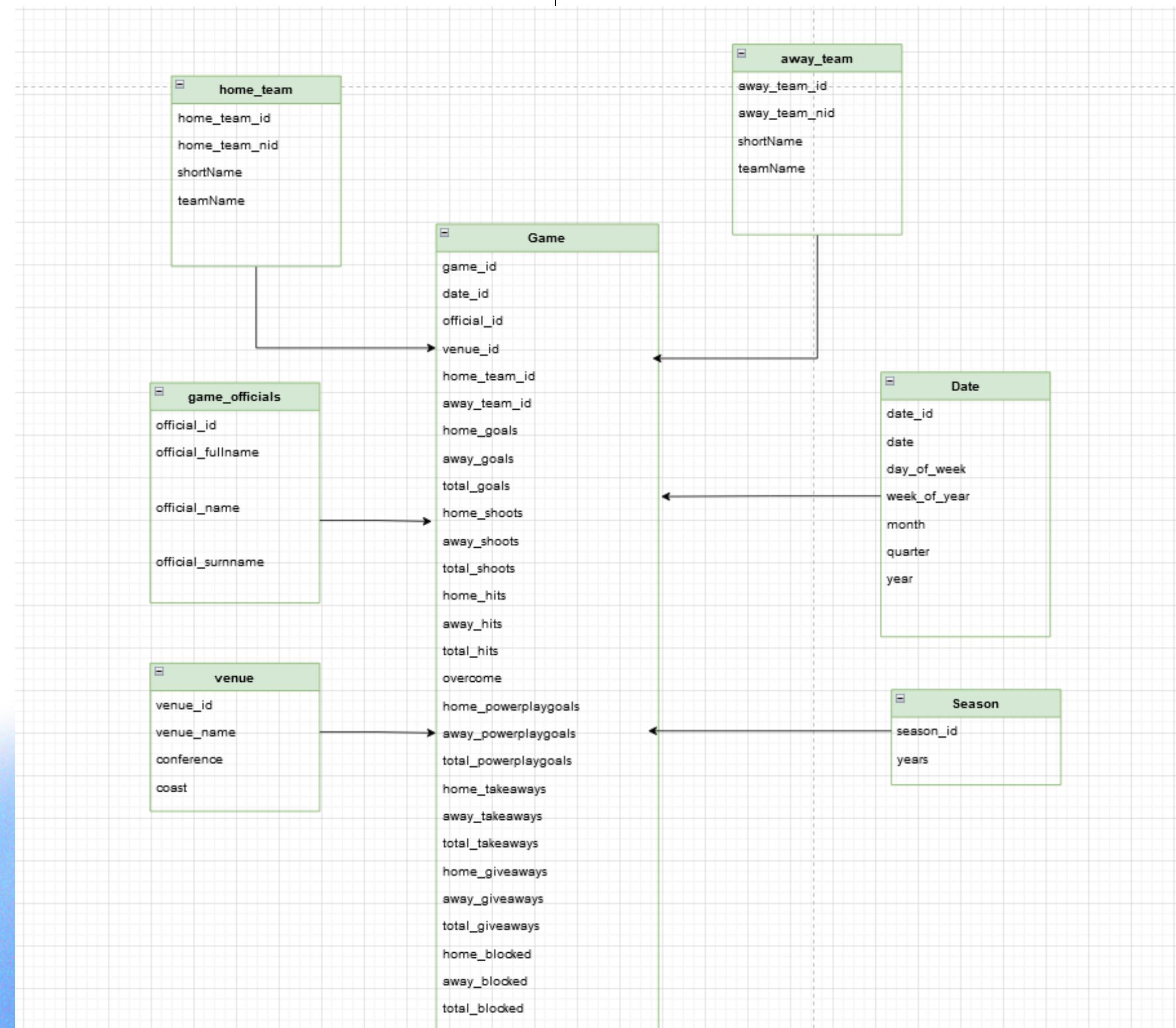
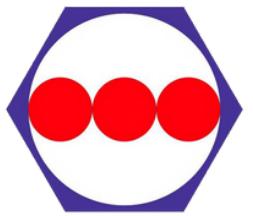




OLTP ŠEMA



OLAP ŠEMA



BUS MATRICA

POSLOVNI PROCESI

Procesi/ Dimenzije	Igrač	Vreme	Tim	Sudija	Meč	Golman	Dvorana
Vreme provedeno na ledu	x	x			x	x	
Praćenje power play golova	x	x	x	x	x	x	
Završetak meča u regularnom delu	x	x	x		x		x
Praćenje asistencija na meču	x	x	x		x	x	
Praćenje oduzetih pakova	x	x	x		x		
Praćenje izgubljenih pakova	x	x	x		x		



PLAN REALIZACIJE PROJEKTA



A ISTRAŽIVANJE
IZVORA PODATAKA

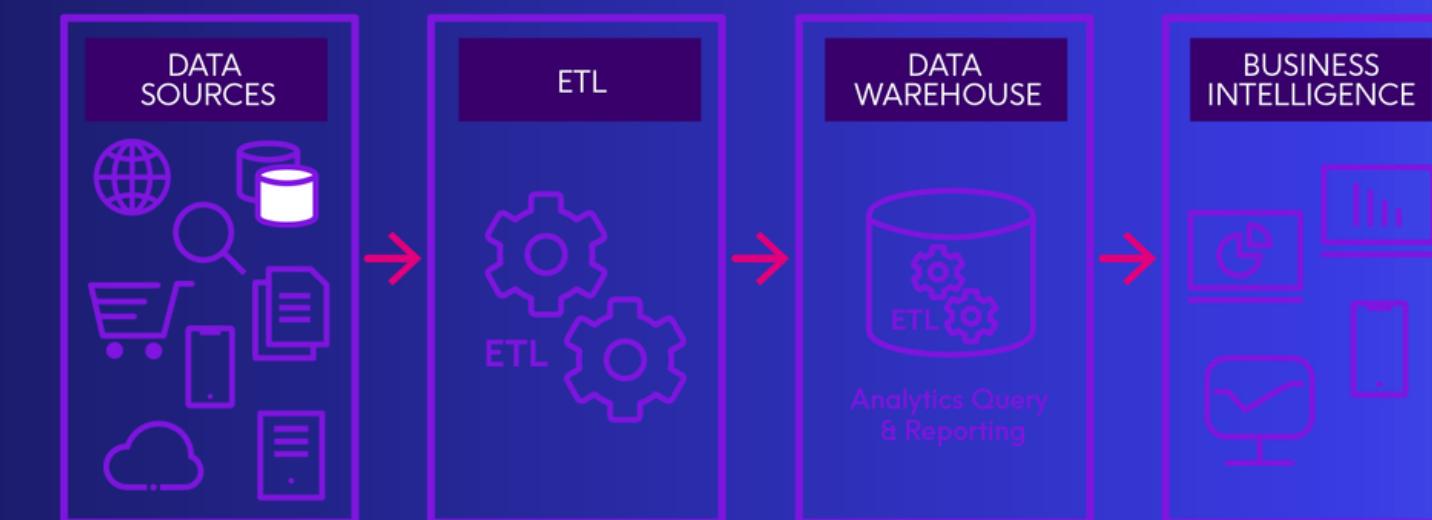
B RAZUMEVANJE
PODATAKA

C DEFINISANJE
PLANNOVA I CILJEVA
IZRADE DW

D ETL PROCES

E IZRADA IZVEŠTAJA

F ANALIZA
REZULTATA



start

2000

end

2010

Select number of teams:

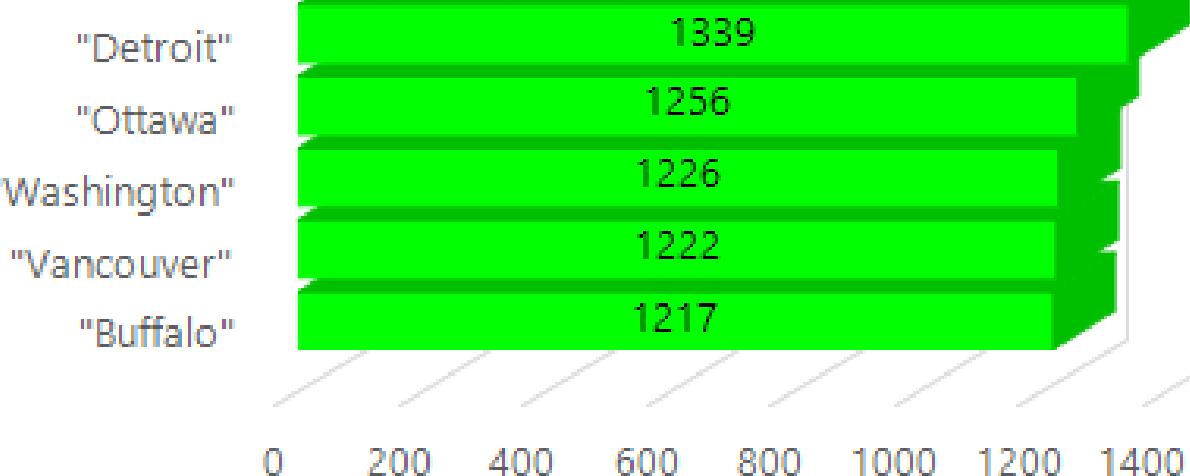
5

1

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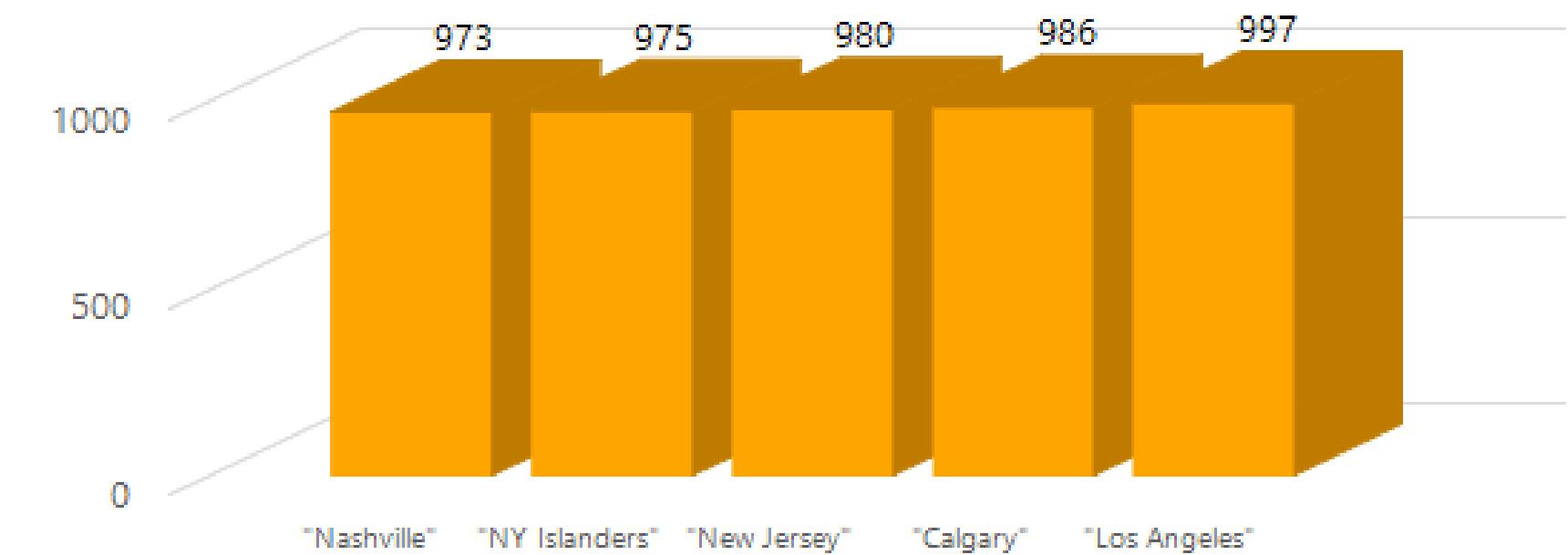
TOP 5 home teams by goals

goals



TOP 5 away teams by goals

goals



Najbolji domaći tim je Detroit, a gostujući Los Angeles

start 2008

end 2012



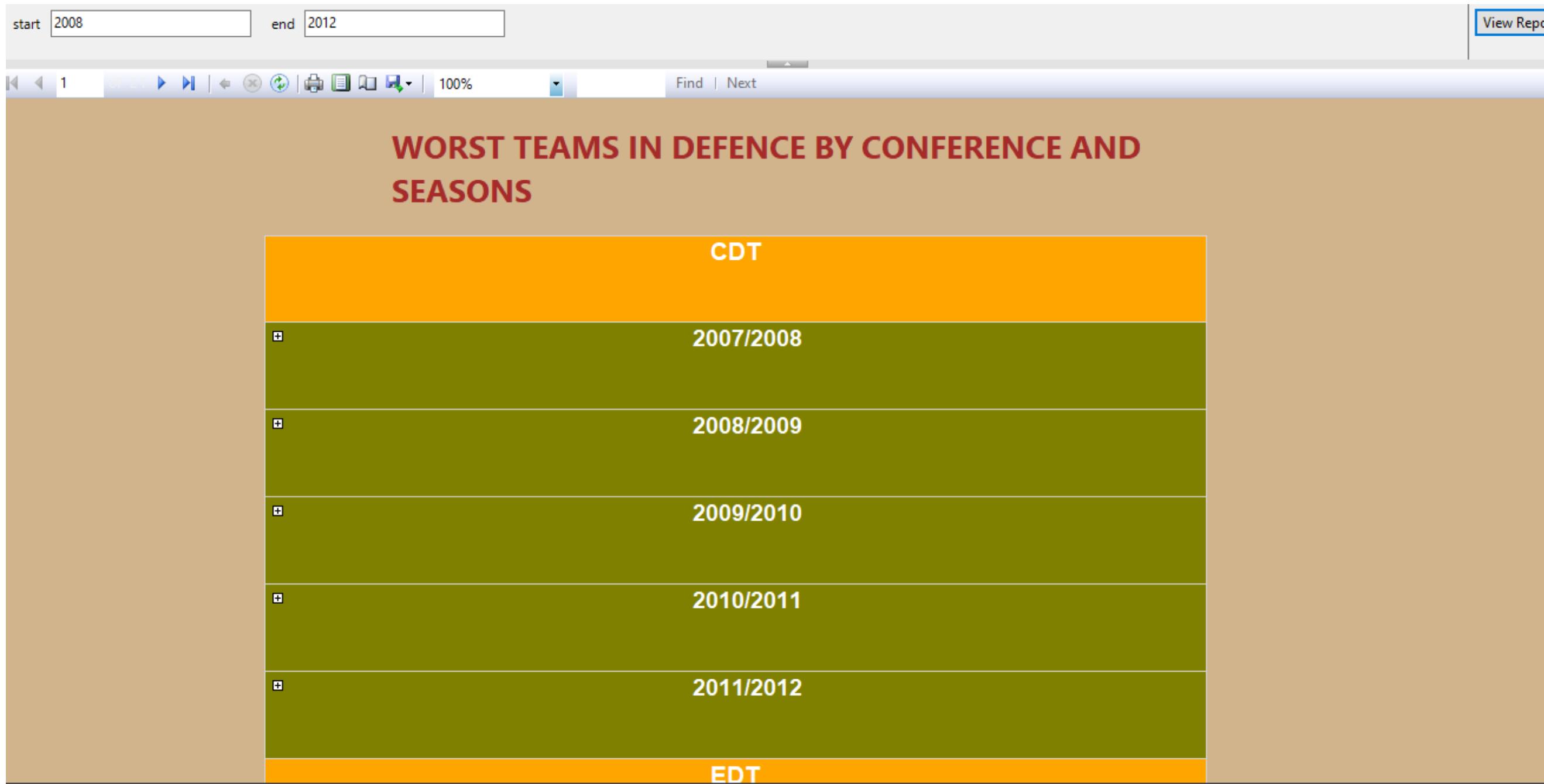
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Game overcome statistics between 2008 and 2012

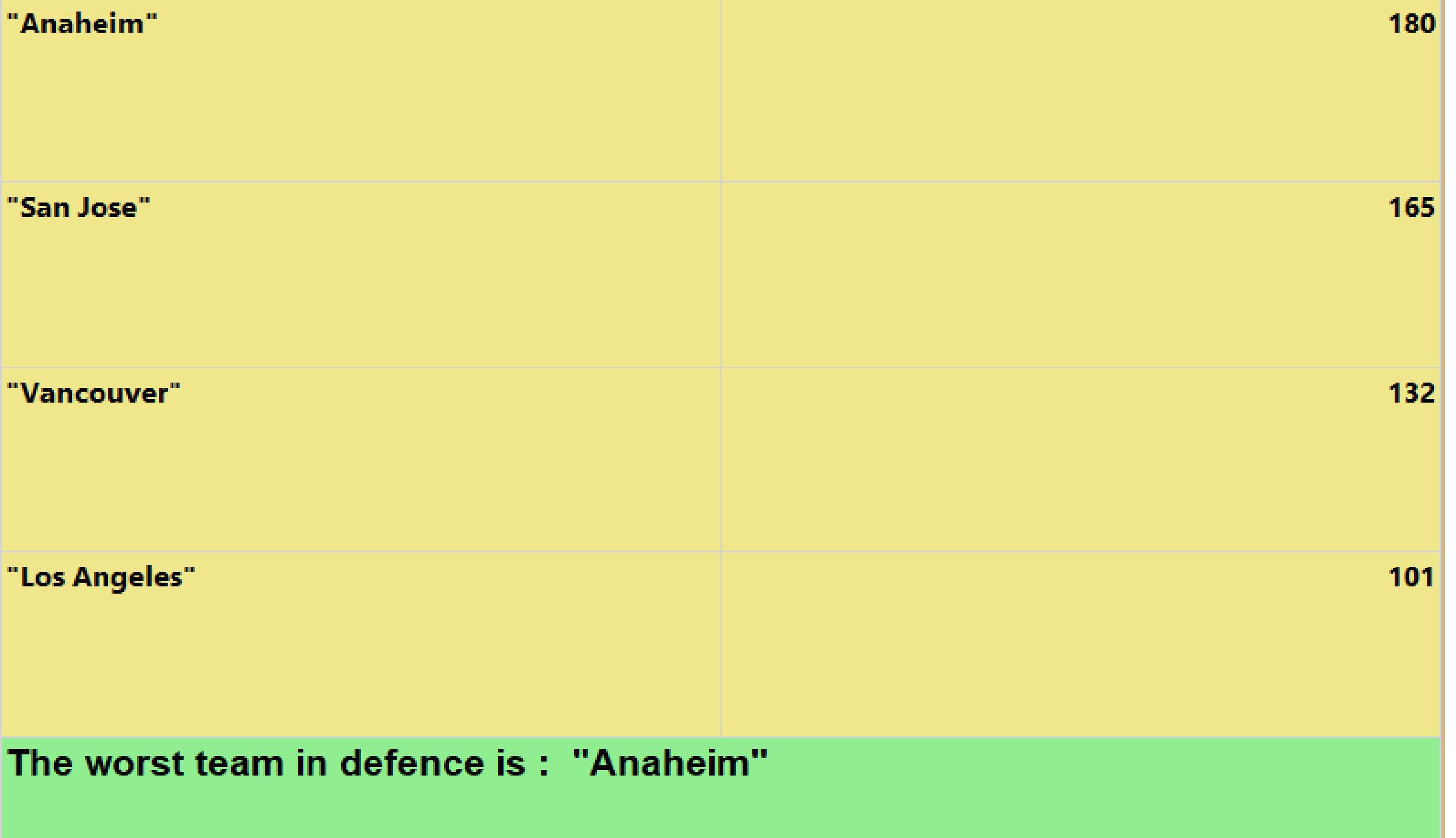
away win OT		
Total goals in group: 3647	Total shoots in group: 45020	Goals ratio by shoots: 8.10 %
away win REG		
Total goals in group: 10353	Total shoots in group: 112274	Goals ratio by shoots: 9.22 %
home win OT		
Total goals in group: 3569	Total shoots in group: 43051	Goals ratio by shoots: 8.29 %
home win REG		
Total goals in group: 13944	Total shoots in group: 145681	Goals ratio by shoots: 9.57 %

Odnos golova i šuteva kada domaći tim pobeđuje regularno je 9.57%

Treći izveštaj



2007/2008



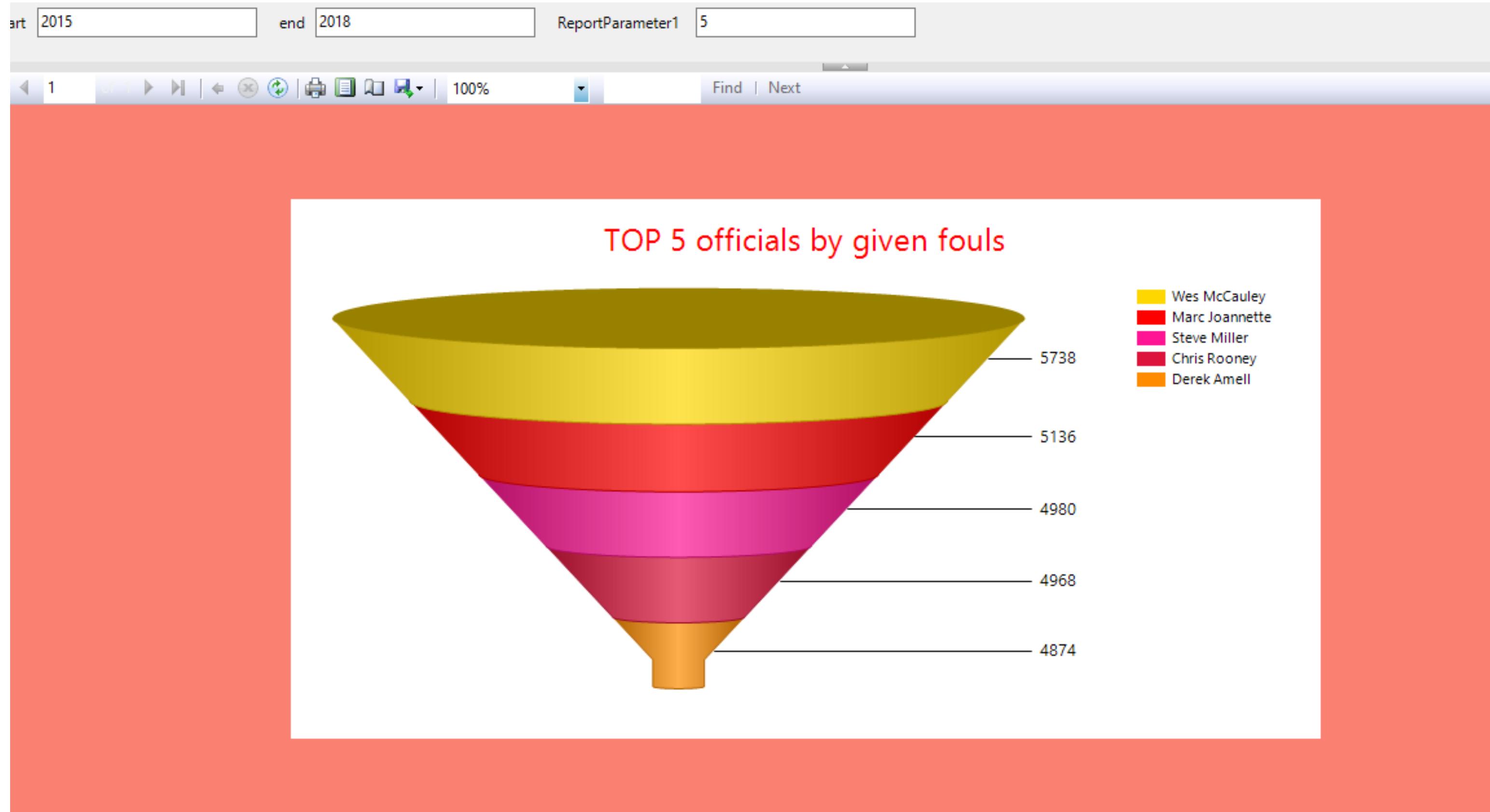
**Najgoru odbranu u
sezoni 2007/2008 u
konferenciji PDT
ima tim Anaheim**

1	◀	▶	◀◀	▶▶	X	Print	Save	Find	Next
STATISTICS OF HOME TEAM IN GIVEN SEASON BY COAST AND 1st ROUND FIXTURE PREVIEW									
CDT									
4	3	22	25	20	40 home win REG	5	8	9	7 "NY Rangers" "Chicago"
3	3	33	29	40	30 away win OT	9	3	5	10 "Pittsburgh" "Dallas"
2	3	26	32	12	30 away win REG	4	3	3	2 "NY Rangers" "Minnesota"
4	2	25	38	19	16 home win REG	14	5	7	4 "Philadelphia" "Nashville" "
5	1	26	27	21	13 home win REG	3	6	1	3 "NY Islanders" "St Louis"
1	2	23	25	33	36 away win REG	1	1	9	6 "New Jersey" "Winnipeg"
EDT									
4	3	25	31	20	22 home win OT	6	1	11	12 "New Jersey" "Boston"

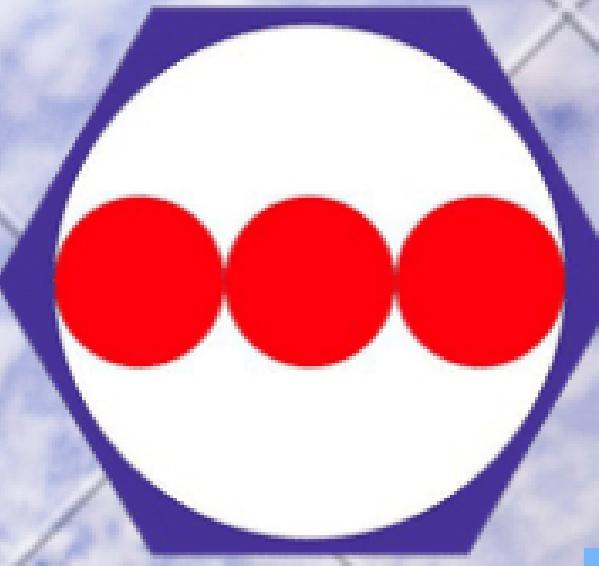
**STATISTICS OF HOME TEAM IN GIVEN SEASON BY
COAST AND 1st ROUND FIXTURE PREVIEW**

CDT												
"Chicago"												
"Dallas"												
"Minnesota"												
"Nashville"												
"St Louis"												
"Winnipeg"												
0	4	59	20	23	51 away win REG	5	5	1	4	Phoenix		
2	3	32	19	32	50 away win OT	7	9	9	6	"Phoenix"		
4	3	40	24	19	32 home win REG	16	3	7	3	"San Jose"		
5	2	25	34	22	25 home win REG	17	4	7	5	"Columbus"		
4	4	35	30	30	28 away win OT	9	11	11	3	"Minnesota"		
5	2	30	23	24	35 home win REG	8	8	6	3	"Minnesota"		
<i>Total home team goals in season 2012: 68</i>		<i>Total home team shoots in season 2012: 774</i>		<i>Total home team hits in season 2012: 584</i>		<i>Total home team takeaways in season 2012: 244</i>		<i>Total home team giveaways in season 2012: 207</i>				
<i>Avg. goals: 2.83</i>		<i>Avg. shoots: 32.25</i>		<i>Avg. hits: 24.33</i>		<i>Avg. takeaways: 10.17</i>		<i>Avg. giveaways: 8.63</i>				
<i>Max goals in single match: 9</i>		<i>Max shoots in single match: 72</i>		<i>Max hits in single match: 82</i>		<i>Max takeaways in single match: 27</i>		<i>Max giveaways in single match:</i>				

Chicago je kao domaćin u sezoni 2012 napravio na nivou tima 584 faulova.



Najviše faulova u prethodne 3 sezone je svirao Wes McCauley



HVALA NA PAŽNJI!