

Proyecto Final: Hearthstone

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HEARTHSTONE

HEROES OF WARCRAFT™



TABLAS

- 1) CARDS.
- 2) DECKS.
- 3) PARTIDAS.
- 4) HISTORIALPARTIDAS.



TABLAS

1) CARDS:

`cards(card_id:string, playerClass:string, cost:int,
dbfld:string, health:int, attack:int, name:string,
rarity:string, set:string, type:string,
artist:string, collectible:boolean, text:string,
mechnics:string,
race:string, durability:int)`



TABLAS

2) DECKS:

`decks(deck_id:int,craft cost:string, date:string, deck archetype:string, deck class:string, deck format:string, deck set:string, deck type:string, rating:int, title:string, deck user:string, card0:int, card1:int, card2:int, card3:int, card4:int, card5:int, card6:int, card7:int, card8:int, card9:int, card10:int, card11:int, card12:int, card13:int, card14:int, card15:int, card16:int, card17:int, card18:int, card19:int, card20:int, card21:int, card22:int, card23:int, card24:int, card25:int, card26:int, card27:int, card28:int, card29:int)`

346071 barajas recopiladas desde el día 2013-05-23 al día 2017-03-19.

TABLAS

3) PARTIDAS:

`partidas`(match id:int,mode:string,
hero:string, hero deck:string,
opponent:string, opponent deck:string,
coin:boolean, result:string)

16.273 tuplas



TABLAS

4) HISTORIALPARTIDAS:

historialPartidas(match id:int,player number:int,cards.card id:string,
turn:int, player:string)

501.800 tuplas

CONSULTAS

1) BUSQUEDA DE CARTA



CONSULTAS

1)BUSQUEDA DE CARTA:

```
1 | SELECT name AS nombre,cost AS coste,attack AS ataque ,health AS salud,  
   | durability AS durabilidad,playerclass AS clase,rarity AS rareza,race AS  
   | raza,text AS habilidad,dbfld,card_id AS id,SET,TYPE AS tipo,artist AS  
   | artista,collectible AS coleccionable,mechanics AS mecanicas  
2 | FROM proyectohs.cards  
3 | WHERE UPPER(name) LIKE UPPER('%entrada%');  
4 |
```


CONSULTAS

2) BARAJAS POR FECHA

Kolento druid	Custom Shaman	Kolento warlock	Kolento priest
0 Innervate 2	1 Earth Shock 2	0 Soulfire 2	0 Circle of Healing 2
2 Wrath 2	1 Rockbiter Weapon 2	1 Mortal Coil 2	0 Silence 2
2 Echoing Ooze 2	2 Reincarnate 2	2 Ancient Watcher 2	1 Power Word: Shield 2
2 Haunted Creeper 2	2 Flametongue Totem 2	2 Ironbeak Owl 2	1 Northshire Cleric 2
3 Savage Roar 2	2 Haunted Creeper 2	2 Sunfury Protector 2	2 Shadow Word: Pain 2
3 Big Game Hunter 2	2 Nerubian Egg 2	3 Earthen Ring Farseer 2	2 Wild Pyromancer 2
3 Harvest Golem 2	3 Feral Spirit 2	4 Hellfire 2	3 Shadow Word: Death 2
3 Shade of Naxxramas 2	3 Hex 2	4 Shadowflame 2	3 Thoughtsteal 2
4 Swipe 2	3 Lightning Storm 2	4 Defender of Argus 2	3 Dark Cultist 2
4 Defender of Argus 2	3 Lightning Storm 2	4 Twilight Drake 2	3 Injured Blademaster 2
4 Keeper of the Grove 2	3 Harvest Golem 2	5 Faceless Manipulator 2	4 Shadow Madness 2
5 Druid of the Claw 2	3 Mana Tide Totem 2	5 Loatheb ★	4 Auchenai Soulpriest 2
5 Loatheb ★	4 Dark Iron Dwarf 2	5 Sludge Belcher 2	5 Holy Nova 2
5 Spectral Knight 2	4 Defender of Argus 2	6 Siphon Soul 2	5 Sludge Belcher 2
6 Force of Nature 2	4 Defender of Argus 2	9 Lord Jaraxxus ★	6 Holy Fire 2
6 The Black Knight ★	5 Azure Drake 2	12 Mountain Giant 2	6 Cabal Shadow Priest 2
7 Ancient of Lore 2	5 Loatheb ★	20 Molted Giant 2	6 Sylvanas Windrunner ★
	6 Fire Elemental 2		10 Mind Control
	6 Sylvanas Windrunner ★		
	8 Al'Akir the Windlord ★		
30/30 Cards	30/30 Cards	30/30 Cards	30/30 Cards
Done	Done	Done	Done

CONSULTAS

2) BARAJAS POR FECHA

```
1 | SELECT deck_class AS claseBaraja,deck_archetype AS arquetipo,COUNT(*) AS  
  |      cantidadDeBarajas,AVG(rating) AS ratingpromedio  
2 | FROM proyectohs.decks  
3 | WHERE date BETWEEN 'date1' AND 'date2' GROUP BY deck_class,deck_archetype  
4 | ORDER BY ratingpromedio DESC;  
5 |
```


CONSULTAS

3) FRECUENCIA DE CARTA EN BARAJA

QUE TAN USADA ES
UNA CARTA?



CONSULTAS

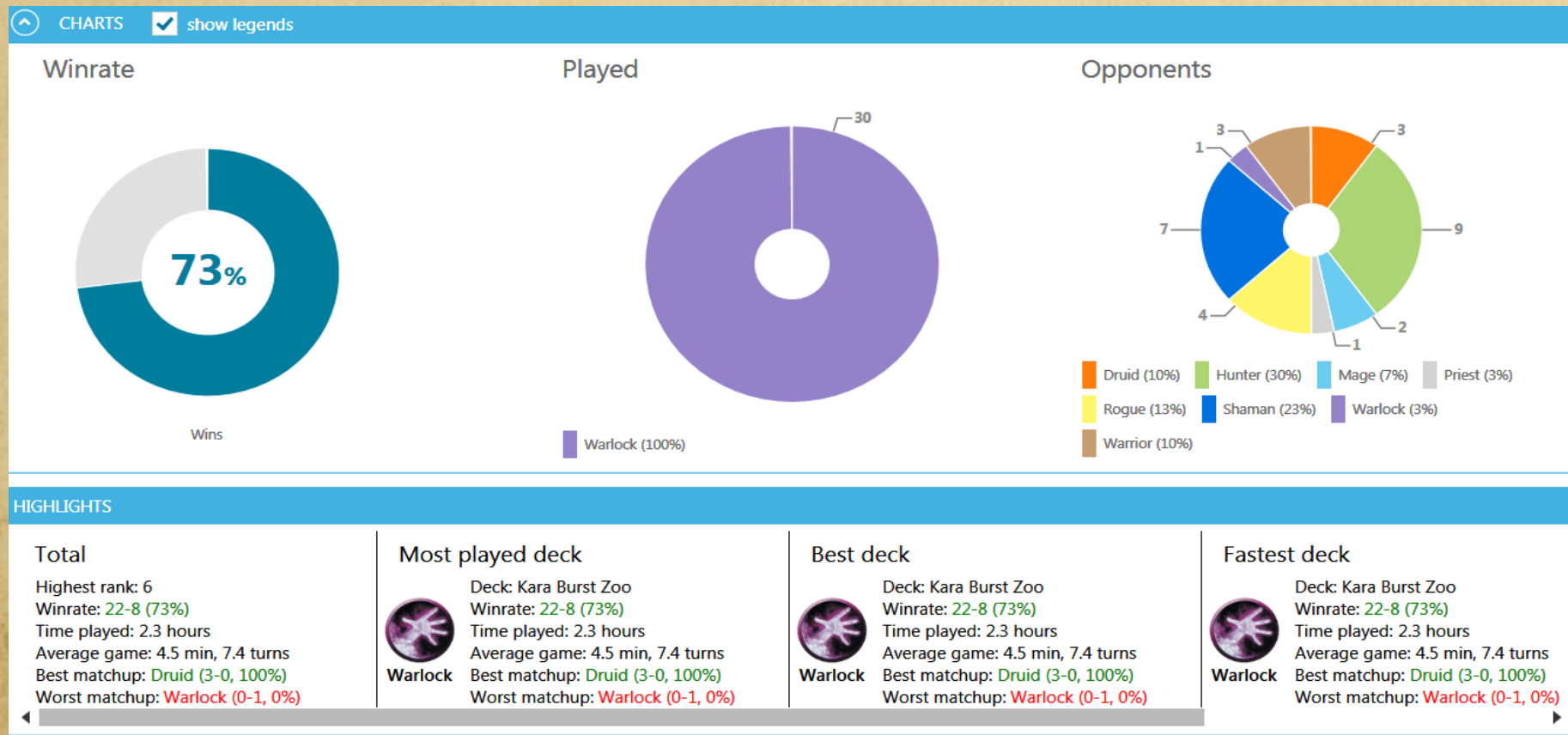
3) FRECUENCIA DE CARTA EN BARAJAS

- Uso de Vistas e Índices

```
1 | SELECT DISTINCT x.name AS nombre, deck_class AS Clase, COUNT(*) AS
   | cantidadDeBarajas
2 | FROM proyectohs.vistaCartasBaraja, (SELECT name, dbfld
3 |                                     FROM proyectohs.cards
4 |                                     WHERE UPPER(name) LIKE UPPER('%entrada%')) x
5 | WHERE
6 | x.dbfld=CARD_0 OR x.dbfld=CARD_1 OR x.dbfld=CARD_2 OR x.dbfld=CARD_3
7 | OR x.dbfld=CARD_4 OR x.dbfld=CARD_5 OR x.dbfld=CARD_6 OR x.dbfld=CARD_7
8 | OR x.dbfld=CARD_8 OR x.dbfld=CARD_9 OR x.dbfld=CARD_10 OR x.dbfld=CARD_11
9 | OR x.dbfld=CARD_12 OR x.dbfld=CARD_13 OR x.dbfld=CARD_14 OR x.dbfld=CARD_15
10 | OR x.dbfld=CARD_16 OR x.dbfld=CARD_17 OR x.dbfld=CARD_18
11 | OR x.dbfld=CARD_19 OR x.dbfld=CARD_20 OR x.dbfld=CARD_21
12 | OR x.dbfld=CARD_22 OR x.dbfld=CARD_23 OR x.dbfld=CARD_24
13 | OR x.dbfld=CARD_25 OR x.dbfld=CARD_26 OR x.dbfld=CARD_27
14 | OR x.dbfld=CARD_28 OR x.dbfld=CARD_29
15 | GROUP BY (x.name, deck_class) ORDER BY conteo DESC;
16 |
```


CONSULTAS

- 4) WINRATE



CONSULTAS

4) WINRATE

- Uso de Vistas e Índices

```
1 SELECT d.name AS nombre,d.partidasTotales, (f.ganadasPorMi+e.  
   ganadasPorOponente)/d.partidasTotales::float AS Winrate  
2 FROM (SELECT z.name,COUNT(*) AS PartidasTotales  
3      FROM  
4      (SELECT DISTINCT c.name,v.result,v.match_id,v.player,v.turn  
5       FROM proyectohs.vistaPartidas v, (SELECT card_id,name  
6       FROM proyectohs.cards  
7       WHERE UPPER(name) LIKE UPPER('%entrada1%')) c  
8       WHERE v.turn<entrada2 AND c.card_id=v.card_id) z GROUP BY z.name) d,  
9      (SELECT y.name,COUNT(*) AS GanadasPorOponente  
10     FROM (SELECT DISTINCT c.name,v.result,v.match_id,v.player,v.turn  
11     FROM proyectohs.vistaPartidas v, (SELECT card_id,name  
12     FROM proyectohs.cards WHERE UPPER(name) LIKE UPPER('%entrada1%')) c  
13     WHERE v.turn<entrada2 AND c.card_id=v.card_id AND v.player='opponent'  
14     AND v.result='loss') y GROUP BY y.name) e,  
15     (SELECT x.name,COUNT(*) AS ganadasPorMi  
16     FROM (SELECT DISTINCT c.name,v.result,v.match_id,v.player,v.turn  
17     FROM proyectohs.vistaPartidas v, (SELECT card_id,name  
18     FROM proyectohs.cards WHERE UPPER(name) LIKE UPPER('%entrada1%')) c  
19     WHERE v.turn<entrada2 AND c.card_id=v.card_id AND v.player='me'  
20     AND v.result='win') x GROUP BY x.name) f  
21 WHERE d.name=e.name AND e.name=f.name AND d.name=f.name;  
22
```


HEARTHSTONE

HEROES OF WARCRAFT™



HearthStone Database

Menú Principal

[Busqueda de Cartas](#)



[Barajas por Fecha](#)



[Frecuencia de Carta en Barajas](#)



[Winrate](#)



APLICACIÓN WEB

- Búsqueda de Cartas

Busqueda de Cartas

Name:

Busqueda de Cartas

name	cost	attack	health	durability	playerclass	rarity	race	text	dbfld	card_id	set	type	artist	collectible	mechanics
Archimago	6	4	7	null	NEUTRAL	FREE	null	Daño de hechizo +1	525	CS2_155	CORE	MINION	Steve Ellis	t	SPELLPOWER
Archimago Antonidas	7	5	7	null	MAGE	LEGENDARY	null	Cada vez que lanzas un hechizo, agrega un hechizo "Bola de Fuego" a tu mano.	1080	EX1_559	EXPERT1	MINION	Wayne Reynolds	t	TRIGGER_VISUAL
Archimago Arugal	2	2	2	null	MAGE	LEGENDARY	null	Cada vez que robas un esbirro, agrega una copia a tu mano.	47692	GIL_691	GILNEAS	MINION	James Ryman	t	TRIGGER_VISUAL
Perspicacia del archimago	3	null	null	null	MAGE	null	null	Tus hechizos cuestan (0) este turno.	39759	KARA_00_05	KARA	SPELL	Kevin Chen	null	null
Aprendiz del archimago	2	2	4	null	MAGE	null	null	Cada vez que lanzas un hechizo, coloca una copia en tu mazo.	39763	KARA_00_08	KARA	MINION	Evgeniy Zaqumyenny	null	TRIGGER_VISUAL
Bastón de archimago	0	0	null	3	NEUTRAL	null	null	Al comienzo de tu turno, agrega un hechizo de Mago aleatorio a tu mano.	46422	LOOTA_819	LOOTAPALOOZA	WEAPON	Matt Cavotta	null	TRIGGER_VISUAL

Resultados: 6

APLICACIÓN WEB

- Barajas por Fecha

Barajas por Fecha

Fecha de Inicio: 07-03-2015

Fecha de Terminó: 08-03-2017

Se

marzo-2017

lun.	mar.	mié.	jue.	vie.	sáb.	dom.
27	28	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2



Barajas por Fecha

deck_class	deck_archetype	cantidaddebarajas	ratingpromedio
Hunter	Reno Hunter	1	15.000000000000000
Warlock	Renolock	1	5.000000000000000
Rogue	Miracle Rogue	1	4.000000000000000
Paladin	Unknown	125	3.096000000000000
Druid	Yogg Druid	1	3.000000000000000
Mage	Tempo Mage	1	2.000000000000000
Warrior	Control Warrior	3	2.000000000000000
Warrior	Unknown	136	1.7352941176470588
Mage	Unknown	88	1.6931818181818182
Druid	Ramp Druid	2	1.500000000000000
Warlock	Unknown	87	1.3333333333333333
Shaman	Unknown	86	1.3255813953488372
Hunter	Unknown	74	1.2567567567567568
Druid	Unknown	106	1.2169811320754717
Rogue	Unknown	89	1.1123595505617978
Priest	Unknown	87	1.0344827586206897
Druid	C'Thun Druid	1	1.000000000000000
Paladin	Aggroadin	2	1.000000000000000
Priest	Dragon Priest	1	1.000000000000000
Rogue	C'Thun Rogue	1	1.000000000000000
Hunter	Midrange Hunter	1	1.000000000000000
Shaman	Aggro Shaman	1	1.000000000000000
Shaman	Midrange Shaman	1	1.000000000000000
Warlock	Zoolock	1	1.000000000000000
Warlock	Malylock	1	0.000000000000000

Resultados: 25

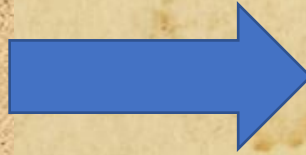
APLICACIÓN WEB

- Frecuencia de carta en barajas

Frecuencia de Carta en Barajas

Name: Malygos

Search



Frecuencia de Carta en Barajas

name	deck_class	conteo
Malygos	Mage	2570
Malygos	Rogue	2388
Malygos	Druid	2258
Malygos	Shaman	1951
Malygos	Priest	1376
Malygos	Warlock	986
Malygos	Hunter	571
Malygos	Paladin	245
Malygos	Warrior	133

Resultados: 9

APLICACIÓN WEB

- Winrate

Winrate

Name:

Turno:



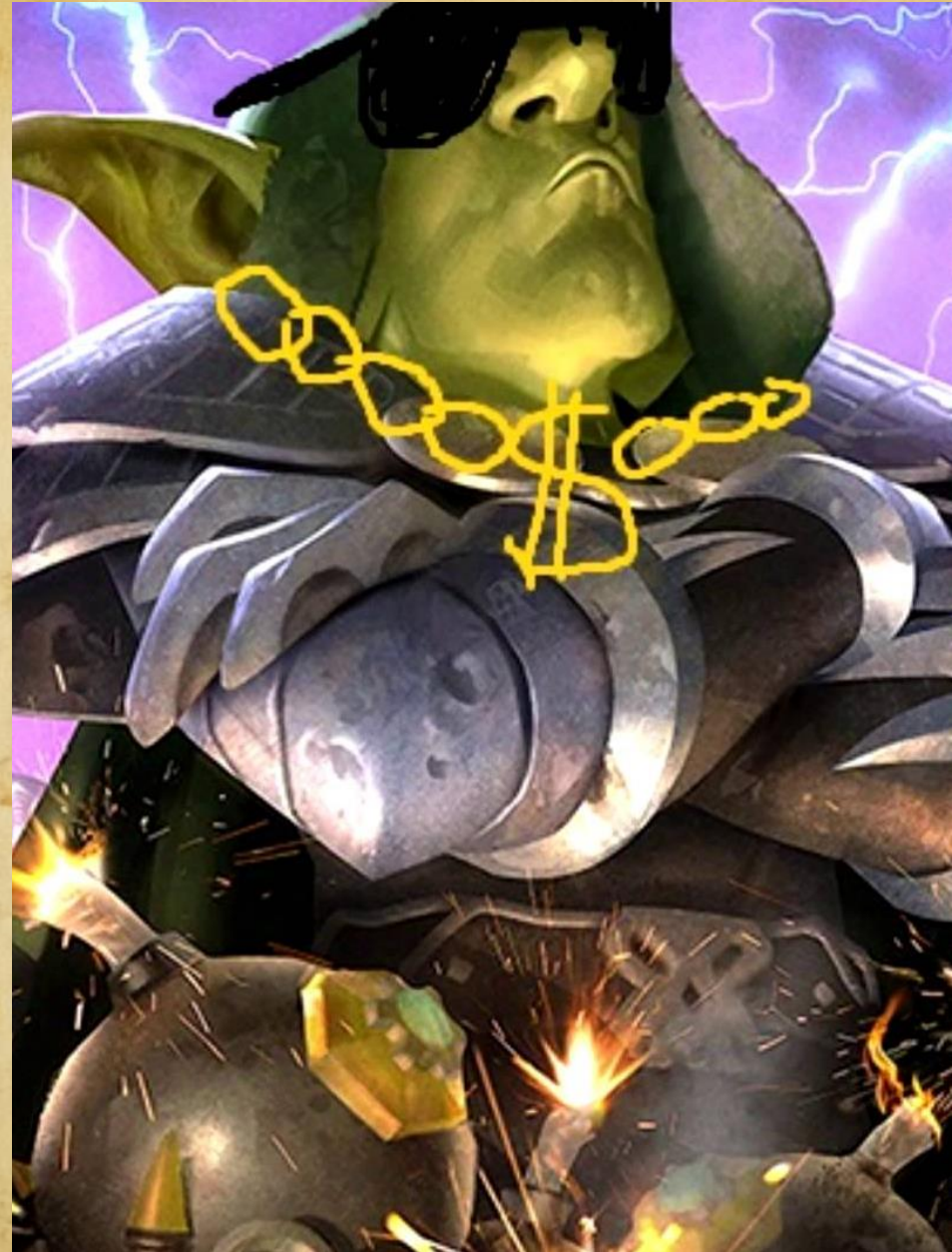
Winrate

nombre	partidastotales	winrate
Bola de fuego	1089	0.503213957759412356

Resultados: 1

CONCLUSIONES

- Modelo relacional es útil para Organizar datos.
- Las búsquedas son rápidas al Utilizar vistas en la base de datos.
- Poca complejidad a la hora de Combinar sql con web (html+java).



PREGUNTAS?