# Semantic web Technologies

# **Hadith Narrators**

Ву

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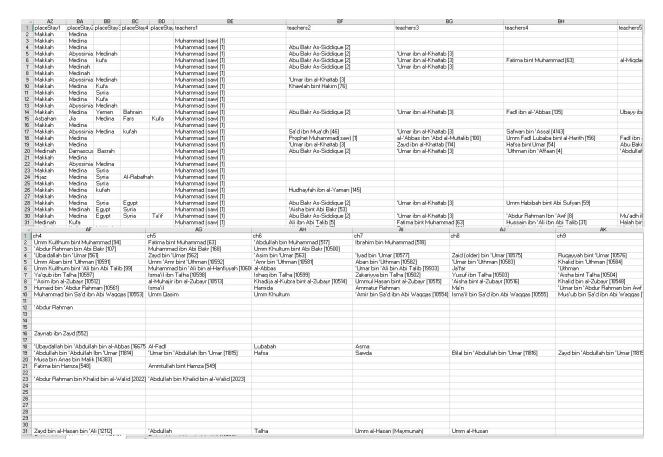
Instructor

Dr. Amna Basharat

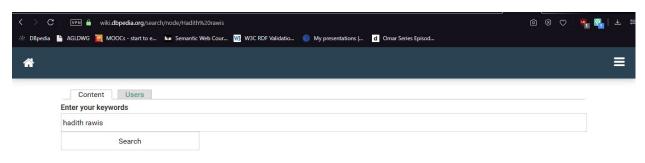
# **Data Sets**

## https://www.kaggle.com/fahd09/hadith-narrators

	A B	С		D					G		1 1
1	A B scholar_ind: name		grade		birth_date_place		death_date_place		birth_place	H birth_date	birth_date_hijri
2	0 1 Prophet Mu	hammad	Rasool Allah		53 BH/570 CE (9th Rabi)	awwall (Maki	kah 11 AH/632 CE (12th Rabi' awwa	l (Medina)[ Natural ]	9th Rabi' awwal, Maki	(ah ['53 BH', '570 CE']	53
3	<ol> <li>2 Abu Bakr As</li> </ol>	s-Siddique	Comp.(RA) [1st G	eneration]	51BH/573 CE (Makkah)		13 AH/634 CE (Medina)[ Natur	al]	Makkah	['51BH', '573 CE']	5
4	<li>2 3 'Umar ibn al-</li>	-Khattab	Comp.(RA) [1st G	eneration]	41BH/582 CE (Makkah)		23 AH/645 CE (Medinah)[ Mar	yred ]	Makkah	['41BH', '582 CE']	4
5	3 4 'Uthman ibn	'Affaan	Comp.(RA) [1st G	eneration]	47 BH/579 CE (Ta'if)		35 AH/655 CE (Medinah)[ Mar	yred ]	Ta'if	['47 BH', '579 CE']	47
6	4 5 Ali ibn Abi T.		Comp.(RA) [1st G	eneration]	23 BH/600 CE (13 Rajab	) (Makkah)	40 AH/661CE (21Ramadhan)	(Kufa)[Martyred]	13 Rajab, Makkah	['23 BH', '600 CE', '13 F	3 23
7	5 6 Talha ibn 'U	baidullah	Comp.(RA) [1st G	eneration]	28 BH/596 CE (Makkah)		36 AH/656 CE (Medinah)[ Mar	yred(Jamal)]	Makkah	['28 BH', '596 CE']	28
	6 7 Zubayribn a		Comp.(RA) [1st G		28 BH/596 CE (Makkah)		36 AH/656 CE (Medinah)[ Mar		Makkah	['28 BH', '596 CE']	28
9	7 8 'Abdur Rahr		Comp.(RA) [1st G		143 BH/580 CE (est.) (Ma		32 AH/654 CE (Medianh)[ Nati		est., Makkah	['43 BH', '580 CE']	40
10	8 9 Said ibn Abi	i Waqqas	Comp.(RA) [1st G		39 BH/584 CE (Makkah)		55 AH/664 CE ((Al-'Atiq) Media	na)[Natural]	Makkah	['39 BH', '584 CE']	33
11	9 10 Abu 'Ubaida		Comp.(RA) [1st G		40 BH/584 CE (Makkah)	Ü.	18 AH/640 CE ('Amawas, Pale		Makkah	['40 BH', '584 CE']	40
12	10 11 Sa'id bin Za		Comp.(RA) [1st G	eneration]	*23 BH/594 CE (Makkah	J	50 AH/671 CE (Medinah)[ Natu		Makkah	['23 BH', '594 CE']	23
13	11 12 Mus'ab ibn' 12 13 Abu Huraira		Comp.(RA) Comp.(RA) [1st G		(Makkah) 12 BH/603 CE (Baha, Ye	,	3 AH/625 CE (Medinah)[ Marty 59 AH/681 CE (Medinah)[ Natu	red(Uhud) J	Makkah Baha, Yemen	["12 BH", "603 CE"]	12
14 15	13 14 Salman Far:		Comp.(RA) [1st G	eneration)	(Kazerun, Iran)	menj	36 AH (al-Mada'in,Iraq)[ Natur	raij -11	Kazerun, Iran	[]	14
16	14 15 Zaydibn Ha		Comp.(RA) [1st G		35 BH/588 CE (Hijaz)		8 AH/629 CE (Busra, Near Kar	arı ak Suria) (Marturad (Mužala) i		['35 BH', '588 CE']	35
17	15 16 ibn Mas'ud	increar.	Comp.(RA) [1st G	eneration]	(Makkah)		32 AH/ 652 CE (Medina/Kufa)	Natural I	Makkah	1	-
18	16 17 ibn Abbas		Comp.(RA) [1st G		3 BH/619 CE (Makkah)		68 AH/687 CE (Ta'if)[ Natural ]		Makkah	['3 BH', '619 CE']	
19	17 18 ibn Umar		Comp.(RA)[1st G		10 BH/613 CE (Makkah)		74 AH/693 CE (Makkah)[ Natu	ral 1	Makkah	['10 BH', '613 CE']	10
20	18 19 Anas bin Ma	alik	Comp.(RA) [1st G	eneration]	10 BH/613 CE (Medinah)		93 AH/712 CE (Basrah)[ Natur	al]	Medinah	['10 BH', '613 CE']	10
20 21	19 20 Hamza ibn '	Abd al-Muttalib	Comp.(RA)		53 BH/ 570 CE (Makkah)	)	3 AH/ 625 CE (Hijaz, Uhud)[ M.	artyred(Uhud)]	Makkah	['53 BH', '570 CE']	50
22	20 21 Ja'far ibn Ab		Comp.(RA) [1st G		133 BH (Makkah)		8 AH/629 CE (Syria)[ Martyred		Makkah	['33 BH']	3:
23	21 22 Khalid bin a		Comp.(RA) [1st G		30 BH/592 CE (Makkah)		21 AH/642 CE (Hims, Syria)[ Na		Makkah	['30 BH', '592 CE']	30
24	22 23 Abu Dharr a		Comp.(RA) [1st G	eneration]	(Hijaz)		32 AH/652 CE (Al-Rabathah r	ear Medinah)[ Natural ]	Hijaz	0	
25	23 24 Bilal ibn Rib.		Comp.(RA) [1st G	eneration]	(Makkah)		21 AH/642 CE (Damascus, Syr	ia)[Natural]	Makkah	0	
26	24 25 'Ammaribn'		Comp.(RA) [1st G	eneration]	57 BH/566 CE (арргох) (	(Makkah)	37 AH/657 CE (Siffin)[ Martyre		approx, Makkah	['57 BH', '566 CE']	5
27	25 26 'Abdullah bi	n Jahsh	Comp.(RA)		(Makkah)		3 AH/625 CE (Uhud, Hijaz)[ Ma	rtyred(Uhud)]	Makkah	0	
28	26 27 Mu'awiya ibi		Comp.(RA) [1st G	eneration]	13 BH/602 CE (Makkah)		160 AH/680 CE (Medina)[ Natu	ral]	Makkah	['13 BH', '602 CE']	1
29	27 28 'Amr bin al-' 28 29 'Abdullah bi	Aas n 'Amrbin al-'Aas	Comp.(RA) [1st G Comp.(RA) [1st G		50 BH/573 CE (Makkah) (Makkah)		*43 AH/664 CE or 51 AH (Egyp 63 AH/65 AH (Egypt/Syria) Na		Makkah Makkah	['50 BH', '573 CE']	5
30 31			Comp.(RA) [1st G		(Makkah) 3 AH/625 CE (Medinah)		'50 AH/65 AH (Egypt/Syria)[ Na		Makkah Medinah	[] ['3 AH', '625 CE']	
31	29 30 Hassan ibn	All DIN ADI Talib	Lomp.(HA)[1st G	enerationj	3 AM (023 LE (Medinah)		50 Anio ru Cc (medinah)[ Ma	tyrea I	medinan	[JAM, 025 CE]	
1	sp2		sp3		sp4	9	:p5	sp6	sp7	W	sp8
2	Sawda bint Zam'a (52)		'Aisha bint Abi Bakr [53]		Hafsa bint Umar [54]	- 2	Zaynab bint Khazeemah [55]	Umm Salamah [56]	Zayna	b bint Jahsh [57]	Juwayriya bir
3	Umm Ruman (91)		Asma hint 'I Imaus [69]		Habiba bint Kharijah ibn Za	yd [203]					
4	Umm Kulthum bint 'Amr (Ja	arwal) [186]	Qaraybah bint Abi Umayy Fakhitah bint Ghazwan [5	ah al-Sugra [81]	Jamila bint Thabit ibn Abi a	I-Aflah [56 '	'Atikah bint Zayd [196]	Umm Kulthum bint 'Ali	bin Abi Talit, Umm I	Hakim [93]	Umm Walad(
5	Umm Kulthum bint Muhamr	mad [94]	Fakhitah bint Ghazwan [5]	76]	Ramlah bint Shayba bin Ral		Umm 'Amr bint Jundub al-Daus	i Fatima bint al-Walid b.	'Abd Shams Na'ilah	bint al-Furafisah [575]	
	Khawlah bint Ja'far [565]		[566]		Asma bint 'Umays [69]		Umm Walad(s)				
7	Khawla bint al-Qa'Qa' [580] Umm Khalid bin Khalid ibn	C-5-4 (740)	Umm Aban bint 'Utba b. F Umm Kulthum bint 'Ugba	labi'a [581]	Umm Khultum bint Abi Bakı al-Rabab bnt Unaif		Suada bint 'Àuf al-Murriya (582) Zainab bint Bishr	al-Jarba' bint Qasama a al-Halal bint Qays	il-Tayyi" [583]	dir bint al-Asbagh Kalbi	- (E00)
9	Umm Kulthum bint 'Uqba [9		Sahla bint 'Asim bin 'Ady	[30]	Bahria bint Hani		Sehlah bint Suhayl [65]	Umm Hakim bint Qariz			Turnadir bint
10	Maria bint Qays	[O]	Umm 'Amir	[555]	Umm Hakim bint Qariz bin h	Chalid IS9E	Others	Omini iakim birk Qanz	DITTO GI DITO N	or ar-muoaym	rumadii birk
11	Warja		OHIT AIM		CHITTI GGT BITT GGT BITT	a idiid tooc c	Ou lord				
11 12 13	Khayra bint Qays [587]										
13	,,,,,.,.,.,.,,,,,,,,,										
14 15											
15											
16 17	Durrah bint Abi Lahab [453]		Umm Ayman		Barakah [202]	- 2	Zaynab bint Jahsh [57]				
17	Zaynab bint. Abi Mu'awiya (	498]									
18 19	Umm Walad		Umm Walad								
20											
21	Khawla bint Qays bin Qahd	[1261]									
23	Asma bint Anas al-Khatha'n	niyya [2026]									
24											
21 22 23 24 25 26 27 28											
27	or		Fatima bint Abi Hubaysh	414]							
28		_		•							
29	Umm Kulthum bint 'Uqba [9	5]									
30 31	Hafsa bint 'Abd al-Rahman										
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100						N					
1	birth date hiiri birth dat	e gregorian dez	th date hijri death date	gregorian deat		death rea	ason Father				
	birth_date_hijri birth_dat	e_gregorian dea	th_date_hijri death_date_		n_place Rabi' awwal (Medina		ason Father 'Abdullah ibn 'Abd al-N	luttalib (9991)			
2	53	570	11	632 12th	n_place Rabi' awwal (Medina	death_rea	'Abdullah ibn 'Abd al-N				
2	53 51	570 573	11 13	632 12th 634 Med	n_place Rabi' awwal (Medina ina	death_rea Natural Natural	'Abdullah ibn 'Abd al-N Abu Quhafa Uthman bir				
2 3 4	53 51 41	570 573 582	11 13 23	632 12th 634 Med 645 Med	n_place Rabi' awwal (Medina ina inah	death_rea Natural Natural Martyred	'Abdullah ibn 'Abd al-N Abu Quhafa Uthman bi Khattab ibn Nufayl				
2 3 4 5	53 51 41 47	570 573 582 579	11 13 23 35	632 12th 634 Med 645 Med 655 Med	n_place Rabi' awwal (Medina ina inah inah	death_rea Natural Natural Martyred Martyred	'Abdullah ibn 'Abd al-N Abu Quhafa Uthman bii Khattab ibn Nufayl 'Affan ibn Abi al-'As	n 'Amir [500]			
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2 3 4 5 6 7 8	53 51 41 47 23 28 28	570 573 582 579 600 596	11 13 23 35 40 36	632 12th 634 Med 645 Med 655 Med 661 21 R 656 Med 656 Med	n_place Rabi' awwal (Medina ina inah inah amadhan, Kufa inah inah	death_rea Natural Natural Martyred Martyred Martyred Martyred Martyred	'Abdullah ibn 'Abd al-N Abu Quhafa Uthman bii Khattab ibn Nufayl 'Affan ibn Abi al-'As I Abu Talib ibn 'Abd al-N ''Ubaidullah b. ''Uthman Awwam ibn Khuwaylid	n 'Amir [500] luttalib [9992] b. 'Amr bin Asad bin 'Abdul-'Uzzı	a		
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## **Availability on DBPedia**



### Your search yielded no results

- · Check if your spelling is correct.
- Remove quotes around phrases to search for each word individually. bike shed will often show more results than "bike shed".
- Consider loosening your query with OR. bike OR shed will often show more results than bike shed.



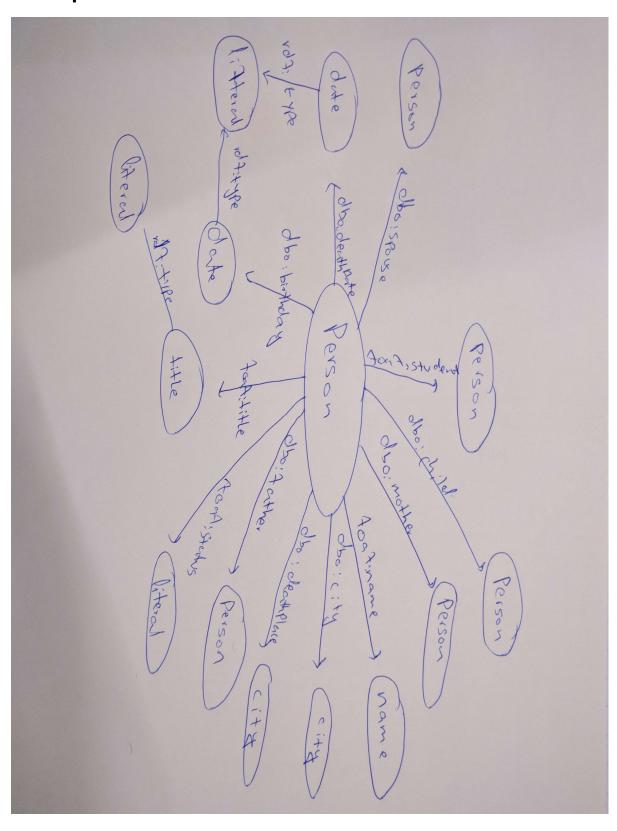
## **Competency Questions**

- 1. Which rawi belong to which place?
- 2. Which rawi has which teacher?
- **3.** Which has which student?
- **4.** Who is the children of whom?
- **5.** Who is the wife/husband of whom?
- **6.** What is the grade of any rawi?

## **Tools and Methods used**

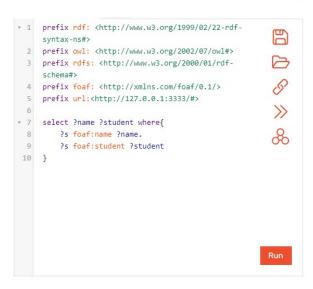
- 1. Open Refine: It is tool made by GOOGLE which help us to convert simple data from **csv to rdf** form. After uploading the data I have created the sparql end points of DPPedia and WikiData and reconciled it with them. Afeter Reconcilation I have generated RDF file and downloaded it
- GraphDB: it is use to do sparql queries on rdf data. I wrote some sparql queries and tested the results against my original data and it gave me correct output

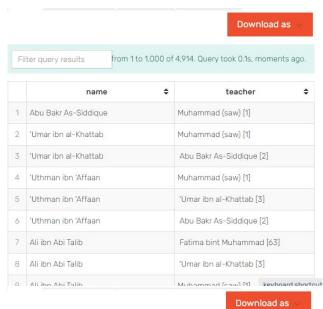
# **Conceptual Model**



# **SPARQL Queries**

```
prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#">prefix owl: <a href="http://www.w3.org/2002/07/owl#">http://www.w3.org/2002/07/owl#</a>
prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a>
prefix foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/</a>
prefix url: <a href="http://127.0.0.1:3333/#">http://xmlns.com/foaf/0.1/</a>
prefix foaf: <a href="http://127.0.0.1:3333/#">http://xmlns.com/foaf/0.1/</a>
prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a>
prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a>
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prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a>
prefix foaf: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a>
prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http:
```



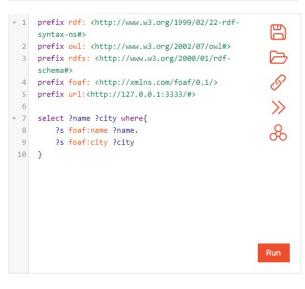


2 Pr 3 Pr 4 Pr	ophet Muhammad ophet Muhammad ophet Muhammad	'Aisha bint Abi Bakr [53]  'Abdur Rahman Ibn 'Awf [8]  'Umar ibn al-Khattab [3]  'Uthman ibn 'Affaan [4]
3 Pr 4 Pr	rophet Muhammad	'Umar ibn al-Khattab [3]
4 Pr		
	ophet Muhammad	'Uthman ibn 'Affaan [4]
_   _		
5 Pr	ophet Muhammad	Abu 'Ubaidah ibn al-Jarrah [10]
6 Pr	ophet Muhammad	Ali ibn Abi Talib [5]
7 Pr	ophet Muhammad	Anas bin Malik [19]
8 Pr	ophet Muhammad	Sa'd ibn Abi Waqqas [9]
9 Pr	ophet Muhammad	Talha ibn 'Ubaidullah [6]

```
prefix rdf: <http://www.w3.org/1999/02/22-rdf-
syntax-ns#>
prefix owl: <http://www.w3.org/2002/07/owl#>
prefix rdfs: <http://www.w3.org/2000/01/rdf-
schema#>
prefix foaf: <http://xmlns.com/foaf/0.1/>
prefix url: <http://127.0.0.1:3333/#>

select ?name ?spouse where{
    ?s foaf:name ?name.
    ?s foaf:spouse ?spouse
}

Run
```



Download as

Filter query results rom 1 to 1,000 of 1,396. Query took 0.2s, moments ago.

	name 💠	spouse	<b>\$</b>
1	Prophet Muhammad	'Aisha bint Abi Bakr [53]	
2	Prophet Muhammad	Hafsa bint Umar [54]	
3	Prophet Muhammad	Juwayriya bint al-Harith [58]	
4	Prophet Muhammad	Maria al-Qibtiyya [62]	
5	Prophet Muhammad	Maymuna bint al-Harith [61]	
6	Prophet Muhammad	Safiyya bint Huyayy [60]	
7	Prophet Muhammad	Sawda bint Zam'a [52]	
8	Prophet Muhammad	Umm Habibah bint Abi Sufyan [59]	

### Download as

Filter query results om 1 to 1,000 of 4,384. Query took 0.2s, moments ago.

	name	<b>\$</b>	city \$
1	Prophet Muhammad		Medina
2	Prophet Muhammad		Makkah
3	Abu Bakr As-Siddique		Medina
4	Abu Bakr As-Siddique		Makkah
5	'Umar ibn al-Khattab		Medina
5	'Umar ibn al-Khattab		Makkah
7	'Uthman ibn 'Affaan		Makkah
3	'Uthman ibn 'Affaan		Abyssinia
9	'Uthman ibn 'Affaan		Medinah
0	Ali iba Abi Talib		Madina

```
v 1
  prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a>
  prefix owl: <a href="http://www.w3.org/2002/07/owl#">http://www.w3.org/2002/07/owl#</a>
  prefix rdfs: <a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a>
  prefix foaf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/</a>
  prefix url: <a href="http://127.0.0.1:3333/#">http://xmlns.com/foaf/0.1/</a>
  prefix rdf: <a href="http://xmlns.com/foaf/0.1/">http://xmlns.com/foaf/0.1/</a>
  pref
```

#### Download as

Filter query results from 1 to 1,000 of 2,996. Query took 0.1s, moments ago.

	name		
1	Prophet Muhammad	'Abdullah bin Muhammad [517]	
2	Prophet Muhammad	Fatima bint Muhammad [63]	
3	Prophet Muhammad	Ibrahim bin Muhammad [518]	
4	Prophet Muhammad	Ruqayyah bint Muhammad [102]	
5	Prophet Muhammad Umm Kulthum bint Muhammad [9		
5	Prophet Muhammad [97]		
7	Prophet Muhammad	et Muhammad al-Qasim bin Muhammad [516]	
3	Abu Bakr As-Siddique	'Aisha bint Abi Bakr [53]	
9	Abu Bakr As-Siddique	'Abdullah bin Abi Bakr [110]	

#### Download as

Filter query results rom 1 to 1,000 of 2,663. Query took 0.2s, moments ago.

	name	<b>♦</b> title	
1	Prophet Muhammad	Rasool Allah	
2	Abu Bakr As-Siddique	Comp.(RA) [1st Generation]	
3	'Umar ibn al-Khattab	Comp.(RA) [1st Generation]	
4	'Uthman ibn 'Affaan	Comp.(RA) [1st Generati	
5	Ali ibn Abi Talib	Comp.(RA) [1st Generation]	
6	Talha ibn 'Ubaidullah	Comp.(RA) [1st Generation]	
7	Zubayr ibn al-Awwam	Comp.(RA) [1st Generation]	
В	'Abdur Rahman Ibn 'Awf	Comp.(RA) [1st Generation]	
9	Sa'd ibn Abi Waqqas	Comp.(RA) [1st Generation]	
0	Abu 'Ubaidah ibn al-Jarrah	Comp.(RA) [1st Generation]	



Download a

Filter query results from 1 to 1,000 of 2,339. Query took 0.1s, moments ago.

	name	<b>\$</b>	birthcity	
1	Prophet Muhammad	9ti	n Rabi' awwal, Makk	ah
2	Abu Bakr As-Siddique	Ma	ikkah	
3	'Umar ibn al-Khattab	Makkah		
4	'Uthman ibn 'Affaan	Ta	if	
5	Ali ibn Abi Talib	13 Rajab, Makkah		
6	Talha ibn 'Ubaidullah	Ma	Makkah	
7	Zubayr ibn al-Awwam	Ma	Makkah	
8	'Abdur Rahman Ibn 'Awf	es	est., Makkah	
9	Sa'd ibn Abi Waqqas	Ma	ikkah	