Contents

Query number 1 :5 characters mostly involved in battles as attacker king

```
Number1  ✕    ⊕

1   #region names that had the highest number of win and lost battles
2
3   PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
4   PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
5
6   select ?characterName (COUNT (?battle) as ?NumberOfAttackes) where {
7       ?character got:attackerKingOf ?battle ;
8                got:name ?characterName.
9       ?battle got:name ?battleName .
10  }
11  GROUP BY ?characterName
12  ORDER BY DESC (?NumberOfAttackes )
13  LIMIT 5
```

	characterName	⬍	NumberOfAttackes
1	"Joffrey Baratheon"		"14"^^xsd:integer
2	"Tommen Baratheon"		"14"^^xsd:integer
3	"Robb Stark"		"10"^^xsd:integer
4	"Balon Greyjoy"		"7"^^xsd:integer
5	"Euron Greyjoy"		"7"^^xsd:integer

Query Number 2: Average number of the army that attacker Houses used to invade

```
Number2  ✕    ⊕
▼ 1    PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
  2
  3    select ?houseName (AVG (?army) as ?Average)
▼ 4        where {
  5      ?house got:attackerHouseIn ?battle ;
  6            got:name ?houseName .
  7        ?battle got:attackerSize ?army .
  8    } GROUP BY ?houseName
  9    limit 100
 10
```

	houseName ⬍	Average
1	"Lannister"	"10900"^^xsd:decimal
2	"Stark"	"5152.375"^^xsd:decimal
3	"Mormont"	"4750"^^xsd:decimal
4	"Baratheon"	"7500"^^xsd:decimal
5	"Karstark"	"4750"^^xsd:decimal
6	"Glover"	"4750"^^xsd:decimal
7	"Free folk"	"100000"^^xsd:decimal
8	"Giants"	"100000"^^xsd:decimal
9	"Thenns"	"100000"^^xsd:decimal
10	"Bracken"	"1500"^^xsd:decimal
11	"Tully"	"4625"^^xsd:decimal
12	"Frey"	"3250"^^xsd:decimal
13	"Greyjoy"	"475.5"^^xsd:decimal

Query Number 3: Minimum number of the army that won a pitched battle

Number3 ✕ ⊕

```
 1  PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
 2  select (MIN (?army) as ?Min) where {
 3
 4      ?battle got:attackerSize ?army ;
 5              got:battleType ?type ;
 6              got:attackerOutcome "win".
 7      FILTER (REGEX (?type , "[Pp]itched.*"))
 8  }
 9
10
```

| Table | Raw Response | Pivot Table | Google Chart |

Filter query results

		Min
1	"244"^^xsd:integer	

Query Number 4: The biggest invader army that ever lost a battle

```
Number4  ⊗     ⊕                                                    🔍

▾ 1   PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
  2   # The biggest invader army that ever lost a battle
  3
▾ 4   select ?battleName (MAX (?army) as ?number) where {
  5
  6       ?battle got:attackerSize ?army ;
  7               got:attackerOutcome "loss" ;
  8               got:name ?battleName .
  9
 10   } GROUP BY (?battleName)
 11   ORDER BY DESC(?number)
 12   LIMIT 1
```

Table	Raw Response	Pivot Table	Google Chart

Filter query results		Showing results from 1 to 1 of 1.

	battleName ⬍	number
1	"Battle of Castle Black"	"100000"^^xsd:integer

Query Number 5: 20 most popular people who were not involved in any battle (2 methods)

Method 1 :

```
Number5  ✕    ⊕

 1
 2   PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
 3   PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
 4   PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
 5
 6   SELECT DISTINCT ?name ?popularity where {
 7       ?character got:name ?name ;
 8                  got:popularity ?popularity .
 9       FILTER NOT EXISTS {
10           ?character ?p ?battle .
11           ?battle rdf:type|rdfs:type got:Battle .
12       }
13   }
14   ORDER BY DESC (?popularity)
15   LIMIT 20
1
```

Method 2 :

```
Number5  ✕    ⊕

 1   PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
 2   select distinct ?name  ?pop where
 3   {
 4       ?char got:popularity ?pop;
 5           got:name ?name .
 6
 7
 8   MINUS
 9   {
10       ?char got:attackerCommander|got:attackerKingOf |got:defenderCommander |got:defenderKingOf  ?n ;
11           got:name ?name .
12   }
13   } order by desc(?pop)
14   limit 20
15
```

	name	⬍	
1	"Jon Snow"		"1.0"^^xsd:float
2	"Margaery Tyrell"		"1.0"^^xsd:float
3	"Petyr Baelish"		"1.0"^^xsd:float
4	"Sansa Stark"		"1.0"^^xsd:float
5	"Theon Greyjoy"		"1.0"^^xsd:float
6	"Tyrion Lannister"		"1.0"^^xsd:float
7	"Tywin Lannister"		"1.0"^^xsd:float
8	"Arya Stark"		"1.0"^^xsd:float
9	"Barristan Selmy"		"1.0"^^xsd:float
10	"Bran Stark"		"1.0"^^xsd:float
11	"Cersei Lannister"		"1.0"^^xsd:float
12	"Daenerys Targaryen"		"1.0"^^xsd:float
13	"Eddard Stark"		"1.0"^^xsd:float

Query Number 6: Is there any house with "black" in its blazon?

```
Number6  ⊕

1   PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
2   PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
3
4   ASK WHERE{
5       ?house got:blazon ?blazon .
6       FILTER EXISTS {
7           FILTER (REGEX (?blazon , "black"))
8       }
9   }
10
```

YES

Query Number 7: All the DISTINCT properties of the resources of type "got: battle"

```
Number7  ×    ⊕

▼ 1   PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
  2   PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
  3   PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
  4
▼ 5   SELECT DISTINCT ?prop where {
  6       ?character rdf:type|rdfs:type got:Battle .
  7       ?character ?prop ?o .
  8   }
  9
 10
```

	prop
1	rdf:type
2	got:name
3	got:attackerOutcome
4	got:battleType
5	got:occurredIn
6	got:year
7	got:location
8	got:attackerSize
9	got:defenderSize

Query Number 8: 5 characters mostly won in battles as attacker king

```
Number8 ✕    ⊕

▾ 1   PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
  2   PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
  3
▾ 4   select ?characterName (COUNT (?battle) as ?Outcome) where {
  5       ?character got:attackerKingOf ?battle ;
  6                 got:name ?characterName.
  7       ?battle got:name ?battleName ;
  8               got:attackerOutcome "win"
  9
 10   }
 11   GROUP BY (?characterName)
 12   ORDER BY DESC (?Outcome )
 13   LIMIT 5
 14
```

	characterName	◆	Outcome
1	"Joffrey Baratheon"		"13"^^xsd:integer
2	"Tommen Baratheon"		"13"^^xsd:integer
3	"Robb Stark"		"8"^^xsd:integer
4	"Balon Greyjoy"		"7"^^xsd:integer
5	"Euron Greyjoy"		"7"^^xsd:integer

Query Number 8: 5 characters mostly won in battles as attacker king

Query Number 9: region names that had the highest number of win and loss battles

```
Number9  ×   ⊕
19      SELECT  ?regname ( count (?name) as ?cs)  ?out WHERE
20      {
21          ?bat got:attackerOutcome "loss";
22              got:name ?name ;
23              got:occurredIn ?reg;
24              got:attackerOutcome ?out.
25          ?reg got:name ?regname .
26      }groupby  ?regname ?out
27          orderby desc(?cs)
28  limit 1
29
30  }
31  }
32
33
```

Table   Raw Response   Pivot Table   Google Chart

Filter query results			Showing results from 1 to 2 of 2. Query t
	regname ⬍	**cs** ⬍	**out**
1	"Riverlands"	"15"^^xsd:integer	"win"
2	"Crownlands"	"2"^^xsd:integer	"loss"

Query Number 10: all the battles that the attacker lost despite having more soldiers

Number10 ✕ ⊕

```
 1  PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
 2  select ?name ?atsize ?defsize where {
 3      ?battle got:attackerSize ?atsize;
 4              got:defenderSize ?defsize;
 5              got:attackerOutcome "loss";
 6          got:name ?name .
 7
 8  } groupby ?name ?atsize ?defsize
 9  having ( ?atsize >?defsize)
10
11
```

Table | Raw Response | Pivot Table | Google Chart

Filter query results   Showing results from 1 to 3 of 3. Query

	name	atsize	defsize
1	"Battle of the Fords"	"20000"^^xsd:integer	"10000"^^xsd:integer
2	"Battle of Castle Black"	"100000"^^xsd:integer	"1240"^^xsd:integer
3	"Battle of the Blackwater"	"21000"^^xsd:integer	"7250"^^xsd:integer

Query Number 11: 10 most popular characters who appear in all books and are not Nobel

```
1    PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
2    select ?name  ?pop where {
3        ?char got:popularity ?pop;
4            got:name ?name ;
5            got:apearedIn got:book1 ,got:book2, got:book3,got:book4 ,got:book5 ;
6                got:isNoble 0 .
7
8    } order by desc(?pop)
9    limit 10
10
11
```

	name ⬍	
1	"Samwell Tarly"	"0.969899666"^^xsd:float
2	"Sandor Clegane"	"0.695652174"^^xsd:float
3	"Merrett Frey"	"0.434782609"^^xsd:float
4	"Jeyne Poole"	"0.384615385"^^xsd:float
5	"Luwin"	"0.351170569"^^xsd:float
6	"Podrick Payne"	"0.2909699"^^xsd:float
7	"Shae"	"0.2909699"^^xsd:float
8	"Willas Tyrell"	"0.2909699"^^xsd:float
9	"Edric Storm"	"0.284280936"^^xsd:float
10	"Osha"	"0.25083612"^^xsd:float

Query Number 12: Married Members of House Targaryen whose spouse is alive and Nobel, with spouse name

```
 1  PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
 2    select ?charName ?spName  where {
 3       ?char got:hasHouse ?house;
 4             got:name ?charName ;
 5             got:spouseOf ?sp .
 6       ?sp got:name ?spName ;
 7             got:isNoble 1 ;
 8          got:isAlive 1 .
 9       ?house got:name "Targaryen".
10    } limit 100
11
```

| Table | Raw Response | Pivot Table | Google Chart |

Filter query results

	charName	⬍	
1	"Aerion Targaryen"		"Valaena Velaryon"
2	"Daenerys Targaryen"		"Maron Martell"

Query number 13 : 3 most popular novels of House Frey

Number13 ✕   ⊕

```
 1
 2    PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
 3    select ?name  ?pop where {
 4      ?char got:isNoble 1  ;
 5             got:popularity ?pop;
 6             got:name ?name ;
 7           got:hasHouse ?house .
 8        ?house got:name ?houseName .
 9
10
11        filter(Regex(?houseName, "Frey"))
12
13    } order by desc(?pop)
14    limit 3
15
16
```

Table   Raw Response   Pivot Table   Google Chart

Filter query results

	name	⬍	
1	"Walder Frey"		"0.89632107"^^xsd:float
2	"Hosteen Frey"		"0.274247492"^^xsd:float
3	"Cleos Frey"		"0.247491639"^^xsd:float

Query number 14: name of the Mothers with 2 or more child

```
Number14  ✕    ⊕
▾ 1   PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
▾ 2   select ?motherName where {
  3       ?char got:motherOf ?child ;
  4              got:name ?motherName.
  5       ?child got:name ?childName .
  6   } groupby ?motherName
  7   having ((count (?childName))>=2)
  8       orderby ?motherName
  9   |
```

| Table | Raw Response | Pivot Table | Google Chart |

Filter query results

		motherName
1	"Alyssa Velaryon"	
2	"Cersei Lannister"	
3	"Daenaera Velaryon"	

Query number 15: all the battles of House Stark

```
Number15  ✕   ⊕

1  PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
2  select ?battleName where {
3      ?house got:defenderHouseIn | got:attackerHouseIn ?battle ;
4                          got:name ?houseName .
5      ?battle got:name ?battleName .
6      filter(REGEX(?houseName , "Stark")).
7
8  } limit 100
9
```

Table   Raw Response   Pivot Table   Google Chart

	battleName
1	"Sack of Winterfell"
2	"The Red Wedding"
3	"Sack of Torrhen's Square"

Query number16: name and the house of people with ironborn culture

Number16 ⊕

```
1
2    PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
3    select ?name ?houseName where {
4        ?char got:culture ?culture ;
5              got:name ?name.
6        ?ho got:hasHouse ?house .
7        ?house got:name ?houseName.
8        filter(REGEX(?culture ,"Ironborn"))
9
10   }
11   order by ?houseName
12   limit 10
13
14
```

| Table | Raw Response | Pivot Table | Google Chart |

Filter query results

	name	⬍	
1	"Jon Myre"		"Alchemists' Guild"
2	"Aladale Wynch"		"Alchemists' Guild"
3	"Alannys Harlaw"		"Alchemists' Guild"

Query number 17: number of characters involved in each book ordered by count

```
Number17  ×   ⊕

▾ 1   PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
▾ 2   select ?book (count (?Characters) as ?number) where {
  3       ?character got:apearedIn ?book ;
  4              got:name ?Characters .
  5
  6   } group by ?book
  7   order by ?number
  8
  9
 10
```

Table   Raw Response   Pivot Table   Google Chart

Filter query results

	book	
1	got:book1	"386"^^xsd:integer
2	got:book2	"729"^^xsd:integer
3	got:book5	"769"^^xsd:integer

Query number 18: Name all of the houses in the region where battles occurred

```
Number18  ✕   ⊕

▾ 1  PREFIX got: <http://www.dei.unipd.it/database2/gotOntology#>
▾ 2  select  ?regionName ?houseName where {
  3      ?battle got:occurredIn ?region .
  4      ?region got:name ?regionName .
  5      ?house got:locatedIn ?region ;
  6             got:name ?houseName .
  7  } GROUP BY (?regionName)(?houseName)
  8
```

| Table | Raw Response | Pivot Table | Google Chart |

Filter query results

	regionName	⬍	
1	"Riverlands"		"Heddle"
2	"Riverlands"		"Vance of Wayfarer's Rest"
3	"Riverlands"		"Vance of Atranta"