Cheatography

Sitecore Search Developers Cheat Sheet

by Kiran Patil (kpatil) via cheatography.com/20093/cs/2946/

Basics

Terms & Phrases	"test" or "-hello dolly"	`c.Where("test") or c.Where("hello dolly") or c.Where("test" || "hello dolly")`
Fields	title:"The Right way" and text:"go"	`c.Title == "The Right way" or c.Text == "go"` **or** `c.Equals("go")`
WildCard	*amber*	`c.ContactName.Contains ("amber")`
Prefix	amber amber	c.ContactName.StartsWith("amber") or c.ContactName.EndsWith("amber")
Fuzzy	roam~ or roam~0.8	`c.ContactName.Like("roam") or c.ContactName.Like("roam", 0.8)`
Proximity	"jakarta apache"~10	`c.ContactName.Like("jakarta apache", 10)`
Inclusive Range	mod_date:[20-020101 TO 20030101]	`c.ModifiedDate.Between("200201-01", "200301-01", Inclusion.Both)`

Basics (cont)

Exclusive Range	title:-{Aida TO Carmen}	`c.Title.Between("Aida", "Carmen", Inclusion.None)`
Boosting	jakarta^4 apache	`c.Title.Equals("jakarta".Boost(4)) || c.Title.Equals("apache")`
Boolean Or	"jakarta apache" OR jakarta	`where c.Title.Equals("jakarta apache") || c.Equals("jakarta")`
Boolean And	"jakarta apache" AND "Apache Lucene"	`where c.Equals("jakarta apache") && c.Equals("Apache Lucene")`
Boolean Not	"jakarta apache" NOT "Apache Lucene"	`where c.Equals("jakarta apache") && !c.Equals("Apache Lucene")`
Grouping	(jakarta OR apache) AND website	`where (c.Title == "jakarta" || c.Title == "apache") && (c.Title == "website")`

Supported IQueryable methods

Restriction Operators	Where	`var results = from d in queryable where d.Name == "Sitecore" select d;` **or** `var results = queryable.Where(d => d.Name == "Sitecore");`
Projection Operators	Select	`var results = from d in queryable select d.Name;` **or** `var results = querya-ble.Select(d => d.Name);`
Anonymous types		`results = queryable.Select(d => new { d.Name, d.Id });`
Unsupported	SelectMany	
Partitioning Operators	Take	results = `querya-ble.Take(10);`
Partitioning Operators	Skip	`results = queryable.Skip(10);`
Partitioning Operators	Page	`results = queryable.Page(2, 100);`

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Supported IQueryable methods (cont)

Ordering Operators	OrderBy	results = queryable.OrderBy(d => d.Name);
Ordering Operators	OrderBy Descending	results = queryable.OrderByDescending(d => d.Name);
Ordering Operators	ThenBy	results = queryable.OrderBy(d => d.Name).ThenBy(d => d.Id);
Ordering Operators	ThenBy Descending	results = queryable.OrderBy(d => d.Name).ThenByDescending(d => d.Id);
Unsupported	Reverse	
Grouping Operators	Unsupported	GroupBy - Simple 1 GroupBy - Simple 2 GroupBy - Simple 3 GroupBy - Nested GroupBy - Comparer GroupBy - Comparer, Mapped
Set Operators	Unsupported	Distinct Union Intersect Except
Element Operators	First - Simple	`results = queryable.First();`

Supported IQueryable methods (cont)

Element Operators	First - Condition	`results = queryable.First(d => d.Name == "Sitecore");`
Element Operators	FirstOrDefault - Simple	`results = queryable.FirstOrDefault();`
Element Operators	FirstOrDefault - Condition	`results = queryable.FirstOrDefault(d => d.Name == "Sitecore");`
Element Operators	ElementAt	`results = queryable.ElementAt(10);`
Element Operators	Last	'result = queryable.Last();' **or** `result = queryable.Last(d => d.Id > 10);`
Element Operators	LastOrDefault	`result = queryable.LastOrDefault();` or `result = queryable.LastOrDefault(d => d.Id > 10);`
Element Operators	Single	`result = queryable.Single();` **or** `result = queryable.Single(d => d.Id > 10);`

Supported IQueryable methods (cont)

Element Operators	SingleOrDefault	`result = queryable.SingleOrDefault();` **or** `result = queryable.SingleOrDefault(d => d.Id > 10);`
Quantifiers	Any - Simple	`results = queryable.Any();`
Quantifiers	Any - Grouped	`results = queryable.Any(d => d.Name == "Sitecore");`
Quantifiers	Unsupported	All
Aggregate Operators	Count - Simple	`results = queryable.Count();`
Aggregate Operators	Count - Conditional	`results = queryable.Count(d => d.Id < 10);`
Aggregate Operators	Unsupported	Sum Min Max Average Aggregate
Join Operators	Unsupported	Cross Join Group Join Cross Join with Group Join Left Outer Join

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IQueryable Extensions

Filtering		`results = queryable.Filter(d => d.Id > 4 && d.Id < 8);`
Facets	Simple Faceting	`var results = queryable.FacetOn(d => d.Name); var facets = results.GetFacets(); foreach (var category in facets.Categories) { Console.WriteLine(category .Name); foreach (var facetValue in category.Values) { Console.WriteLine("{0}: {1}", facetValue.Name, facetValue.Aggregate); } }`

IQueryable Extensions (cont)

	Pivot Faceting	`var results = queryable.FacetPivotOn(p => p.FacetOn(d => d.Name).FacetOn(d => d.Year)); var facets = results.GetFacets(); foreach (var category in facets.Categories) { Console.WriteLine(category .Name); foreach (var facetValue in category.Values) { Console.WriteLine("{0}: {1}", facetValue.Name, facetValue.Aggregate); } }`
Boosting		`results = queryable.Where(d => d.Id == 7.Boost(2f)).Where(d => d.Template.Contains("o"));`

IQueryable Extensions (cont)

Other	Between	`results = queryable.Where(item => item.Price.Between(50.0f, 400.0f, Inclusion.Both));` **or** `results = queryable.Where(item => item.Price.Between(2.0f, 12.0f, Inclusion.Both) || item.Price.Between(80.0f, 400.0f, Inclusion.Both));` **or** `results = queryable.Where(d => d.Date.Between(new DateTime(2004, 12, 31), DateTime.Now, Inclusion.Both));` **or** `results = queryable.Where(d => d.Id.Between(1, 4, Inclusion.Both));` **or** `results = queryable.Where(d => d.Id.Between(1, 4, Inclusion.Lower));` **or** `results = queryable.Where(d => d.Id.Between(1, 4, Inclusion.Upper));` **or** `results = queryable.Where(d => d.Id.Between(1, 4, Inclusion.None));`

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IQueryable Extensions (cont)

Other	string.Contains	`results = queryable.Where(d => !d.Template.Contains("Hello:));`
Other	string.CompareTo	`results = queryable.Where(d => !d.Name.CompareTo("Hello") == 1);`
Other	Equal	`results = queryable.Where(d => d.Id.Equal(4));`
Other	Matches	`results = queryable.Where(i => i.Template.Matches("^.*$"));`
Other	MatchWildcard	`results = queryable.Where(i => i.Template.Where(i => i.Template.MatchWildcard("H?li*m")));`
Other	Like	`results = queryable.Where(i => i.Template.Like("Citecoar"));`
Other	string.StartsWith	`results = queryable.Where(d => !d.Name.StartsWith("Hello"));`
Other	string.EndsWith	`results = queryable.Where(d => !d.Name.EndsWith("Hello"));`

IQueryable Extensions (cont)

GetResults	`results = queryable.GetResults().Hits.Where(i => i.Document.Name.Contains("o")).Where(hit => hit.Score > 0.6);`
GetFacets	`results = queryable.Where(d => d.Id > 0).FacetOn(d => d.Template, 0).GetFacets();`

Daily Life usages

This returns the results of a query on your search index and returns it as a SearchResultItem type.

```
using (var context = ContentSearchManager.GetIndex(item).CreateSearchContext()) { IQueryable<SearchResultItem> searchQuery = context.GetQueryable<SearchResultItem>().Where(item => item.Name == “Sitecore”) }
```

Daily Life usages (cont)

This converts the query to something your provider understands. For example, for Lucene it is converted to: _name:sitecore

```
using (var context = ContentSearchManager.GetIndex(item).CreateSearchContext()) { IQueryable<SearchResultItem> searchQuery = context.GetQueryable<SearchResultItem>().Where(item => item[“_name”] == “Sitecore”) }
```

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Daily Life usages (cont)

+(+_name:sitecore) +(title:test body:*cms*) or (+(+_name:sitecore) +(title:test body:*cms*))	using (var context = ContentSearchManager.GetIndex(item).CreateSearchContext()) { IQueryable<SearchResultItem> searchQuery = context.GetQueryable<SearchResultItem>().Where(item => item["_name"] == "Sitecore").Where(item => item.Title == "Test || item.Body.Contains("CMS")) } OR using (var context = ContentSearchManager.GetIndex (item).CreateSearchContext()) { IQueryable<SearchResultItem> searchQuery = context.GetQueryable<SearchResultItem> ().Where(item => item.Name == "Sitecore").Where(item => item.Title == "Test || item.Body.Contains("CMS")

Daily Life usages (cont)

Find all the items that have "s" in their names	var index = ContentSearchManager.GetIndex("sitecore_master_index"); using (var context = index.CreateSearchContext()) { Console.WriteLine(context.GetQueryable<SearchResultItem>().Where(resultItem=>resultItem.Name.Contains("s")));
Finding the first item named Sitecore	context.GetQueryable<SearchResultItem>().FirstOrDefault(resultItem=>resultItem.Name=="sitecore")
Finding the count of items in a database	context.GetQueryable<SearchResultItem>().Count()
Finding all the items that use a certain template	context.GetQueryable<SearchResultItem>().Where(resultItem=>resultItem.TemplateName=="Sample Item")
same thing as above but this time using the template id	context.GetQueryable<SearchResultItem>().Where(resultItem=>resultItem.TemplateId==ID.Parse("{76036F5E-CBCE-46D1 -AF0A-4143F9B55-7AA}"))

Daily Life usages (cont)

find all items that have some content in the "Page Title" field	context.GetQueryable<SearchResultItem>().Where(resultItem=>resultItem["page_title"]!=""
find all items that have lorem in the body	context.GetQueryable<SearchResultItem>().Where(resultItem=>resultItem["body"].Contains("lorem"))
finding an item where item.Fields["Taxonomy Items"] // is a multi list field and contains "-{01642-4DF-865C--49DC-9D7A-4-0EB810-1C717}"	context.GetQueryable<SearchResultItem>().Where(resultItem=>resultItem["taxonomy_items"].Contains(Sitecore.ContentSearch.Utilities.IdHelper.NormalizeGuid("{016424DF-865C-49-DC-9D7A-40EB8101C7-17}",true)))

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Daily Life usages (cont)

Find items based on Data Source string	`var query = LinqHelper.CreateQuery(context, UIFilterHelpers.ParseDatasourceString(txtQuery.Text.Trim())).Select(x => x.GetItem()) .AsEnumerable() .Where(x => x.Language == Sitecore.Context.Language)`

Advanced Usages

Get Particular template's item for current website and latest version of an item only	`var searchResultItem = context.GetQueryable<SearchResultItem>() .Where(x => x.Path.Contains(sitecoreItem.Paths.FullPath)) .Where(x => x.TemplateId == Sitecore.Data.ID.Parse("YOURTEMPLATEID")) .AsEnumerable() .Where(x => x != null && x.GetItem() != null && x.Version == x.GetItem().Versions.GetLatestVersion().Version.ToString());`

Advanced Usages (cont)

To get all details related to search index like IsClean, LastUpdated, NumberOfDocuments,-NumberOfFields	`ISearchIndex isearchIndex = ContentSearchManager.GetIndex("-YOURINDEXNAME");`
The _content field aggregates all fields from the item to allow full text searching	`[IndexField(Sitecore.ContentSearch.BuiltinFields.Content)] public string ItemContent { get; set; }`
To do your index field configuration	`<fieldMap type="Sitecore.ContentSearch.FieldMap, Sitecore.ContentSearch"> <fieldNames hint="raw:-AddFieldByFieldName">`

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