

How do I do full-text searching in Ruby on Rails?

Asked 16 years, 3 months ago Modified 4 years, 5 months ago

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I would like to do full-text searching of data in my Ruby on Rails application. What options exist?

12



ruby-on-rails

full-text-search



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asked Sep 6, 2008 at 16:51



sock

1,054 ● 2 ● 8 ● 17

8 Answers

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There are several options available and each have different strengths and weaknesses. If you would like to add full-text searching, it would be prudent to investigate each a little bit and try them out to see how well it works for you in your environment.



MySQL has built-in support for full-text searching. It has online support meaning that when new records are added to the database, they are automatically indexed and will



be available in the search results. The [documentation](#) has more details.

`acts as tsearch` offers a wrapper for similar built-in functionality for recent versions of [PostgreSQL](#)

For other databases you will have to use other software.

[Lucene](#) is a popular search provider written in Java. You can use Lucene through its search server [Solr](#) with Rails using `acts as solr`.

If you don't want to use Java, there is a port of Lucene to Ruby called [Ferret](#). Support for Rails is added using the `acts as ferret` plugin.

[Xapian](#) is another good option and is supported in Rails using the `acts as xapian` plugin.

Finally, my preferred choice is [Sphinx](#) using the [Ultrasphinx](#) plugin. It is extremely fast and has many options on how to index and search your databases, but is no longer being actively maintained.

Another plugin for Sphinx is [Thinking Sphinx](#) which has a lot of positive [feedback](#). It is a little easier to get started using Thinking Sphinx than Ultrasphinx. I would suggest investigating both plugins to determine which fits better with your project.

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edited Apr 22, 2015 at 22:30

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I can recommend Sphinx. Ryan Bates has a great [screencast](#) on using the Thinking Sphinx plugin to create a full-text search solution.



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answered Sep 6, 2008 at 17:04

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John Topley

115k ● 47 ● 199 ● 240



5

You can use Ferret (which is Lucene written in Ruby). It integrates seamless with Rails using the `acts_as_ferret` mixin. Take a look at "[How to Integrate Ferret With Rails](#)". A alternative is [Sphinx](#).



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BenMorel

36.4k ● 51 ● 202 ● 334

answered Sep 6, 2008 at 16:55



marcospereira

12.2k ● 3 ● 48 ● 53

ferret was a great gem but unfortunately doesn't work any longer since many years now – [peter](#) Jun 20, 2021 at 20:23

Hey @peter, you are right. This answer was written in 2008, though. :-) – [marcospereira](#) Jun 21, 2021 at 18:57

my comment was to prevent people from trying it at this date cause it won't work, I have been on the lookout for a replacement since long, just yesterday I found the gem picky that seems to do the job – [peter](#) Jun 22, 2021 at 15:59 ✎



3

Two main options, depending on what you're after.



1) Full Text Indexing and `MATCH() AGAINST()`.



If you're just looking to do a fast search against a few text columns in your table, you can simply use a full text index of those columns and use `MATCH() AGAINST()` in your queries.

1. Create the full text index in a migration file:

```
add_index :table, :column, type: :fulltext
```

2. Query using that index:

```
where( "MATCH( column ) AGAINST( ? )", term )
```

2) [ElasticSearch](#) and [Searchkick](#)

If you're looking for a full blown search indexing solution that allows you to search for any column in any of your records while still being lightning quick, take a look at [ElasticSearch](#) and [Searchkick](#).

[ElasticSearch](#) is the indexing and search engine.

[Searchkick](#) is the integration library with Rails that makes it very easy to index your records and search them.

[Searchkick's README](#) does a fantastic job at explaining how to get up and running and to fine tune your setup, but here is a little snippet:

1. Install and start ElasticSearch.

```
brew install elasticsearch  
brew services start elasticsearch
```

2. Add `searchkick` gem to your bundle:

```
bundle add searchkick --strict
```

The `--strict` option just tells Bundler to use an exact version in your Gemfile, which I highly recommend.

3. Add `searchkick` to a model you want to index:

```
class MyModel < ApplicationRecord  
  searchkick  
end
```

4. Index your records.

```
MyModel.reindex
```

5. Search your index.

```
matching_records = MyModel.search( "term" )
```

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edited Jul 6, 2020 at 20:50

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answered Dec 29, 2019 at 21:07



Joshua Pinter

47.3k ● 23 ● 255 ● 252



1

I've been compiling a [list of the various Ruby on Rails search options in this other question](#). I'm not sure how, or if to combine our questions.



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edited May 23, 2017 at 11:59

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answered Sep 16, 2008 at 18:33



Otto

19.3k • 16 • 58 • 62

That is a more comprehensive list, but lacks some details on the strengths and weaknesses of each; this question as well. What I would like to see is a list of each plugin with information about what are its strength and weaknesses, and links to documentation and tutorials. – [sock](#) Sep 17, 2008 at 16:52



1

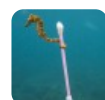
It depends on what database you are using. I would recommend using Solr as it offers up a lot of nice options. The downside is you have to run a separate process for it. I have used Ferret as well, but found it to be less stable in terms of multi-threaded access to the index. I haven't tried Sphinx because it only works with MySQL and Postgres.



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answered Sep 23, 2008 at 14:21

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MattMcKnight

8,260 • 31 • 35



1



Just a note for future reference: Ultra Sphinx is no longer being maintained. Thinking sphinx is its replacement.

Although it lacks several features at this time like excerpting which Ultra sphinx had, it makes up for it in other features.



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answered Mar 11, 2009 at 13:04



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[iros](#)

1,045 ● 1 ● 8 ● 8



1



I would recommend `acts_as_ferret` as I am using it for Scrumpad project at work. The indexing can be done as a separate process which ensures that while re-indexing we can still use our application. This can reduce the downtime of website. Also the searching is much faster. You can search through multiple model at a time and have your results sorted out by the fields you prefer.



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answered Aug 29, 2009 at 17:27



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[user116218](#)

29 ● 2