ActiveSierra

Sean Crowe and James Van Mil

University of Cincinnati Libraries

Context

Sierra database transition

Prior work

PGadmin

Shell scripting

Cron

Ruby on Rails!!!

Ruby on rails

Key components

ActiveRecord and ActiveModel

Examples of how this makes life easier

```
User.first
```

```
User.where(name: 'James')
```

```
User.each do |user|
  puts user.name
end
```

Rails Engines

http://guides.rubyonrails.org/engines.html

ActiveSierra

https://github.com/uclibs/active_sierra

app/models/bib_view.rb

```ruby
class BibView < SierraTable
  has_many :varfield_views, foreign_key: 'record_id'
  has_one :bib_record, foreign_key: 'id'
  has_many :item_records, through: :bib_record
  has_many :item_views, through: :item_records
  has_many :order_records, through: :bib_record
  has_many :order_views, through: :order_records
  has_one :record_metadata, foreign_key: 'id'

  self.table_name = 'bib_view'
  self.primary_key = 'id'
end
```

ActiveSierra calls

```
VarfieldView.last
```

```
VarfieldView id: 108526768, record_id: 450976600050,
record_type_code: "i", record_num: 5033970,
varfield_type_code: "m", marc_tag: nil, marc_ind1: " ",
marc_ind2: " ", occ_num: 0,
field_content: "Wed Jul 22 2015 08:34PM: IN TRANSIT from ulastud to..."
```

```
BibView.limit(10).each { |b| puts b.title }
```

```
The day in Bohemia or Life among the artists. Being a jeu d'esprit containing much that
Spinoza now
The shape of medieval monetary history
A kick in the head : an everyday guide to poetic forms
The Liars' Club : a memoir
Hooray for Amanda & her alligator!
Accessions list, South Asia
Multinational enterprises and employment  : the Canadian experience
Origine et préhistoire du langage.
Trace elements from soil to human
```

More ActiveSierra calls

```
BibView.limit(5).each do |b|
  puts b.item_views.each { |i| puts "#{ b.title }\t#{ i.last_checkin_gmt }" }
end
```

```
The day in Bohemia or Life among the artists. Being a jeu d'esprit containing much that
Spinoza now 2014-12-05 20:05:25 UTC
The shape of medieval monetary history  2013-08-19 18:39:25 UTC
A kick in the head : an everyday guide to poetic forms  2014-02-27 16:49:27 UTC
The Liars' Club : a memoir  2015-07-01 18:46:25 UTC
```

And to deal with the database timing out...

```
BibView.find_in_batches do |records|
  records.each do { |r| r.foo }
end
```

SQL statement

```
SELECT  "item_view".* FROM "item_view"
INNER JOIN "item_record"
  ON "item_view"."id" = "item_record"."record_id"
INNER JOIN "bib_record_item_record_link"
  ON "item_record"."record_id" = "bib_record_item_record_link"."item_record_id"
INNER JOIN "bib_record"
  ON "bib_record_item_record_link"."bib_record_id" = "bib_record"."record_id"
WHERE "bib_record"."id" = $1
ORDER BY "item_view"."id"
ASC LIMIT 1  [["id", 420907795010]]
```

becomes …

ActiveRecord call

```
BibView.find_by_record_num('1000002').item_views.first.barcode
```

Scripts and Applications

Script examples

KBART holdings based print collection analysis

https://github.com/jamesvanmil/kbart_collection_analysis

Script examples

Comprehensive journal order reporting

https://github.com/jamesvanmil/cereal

Script examples

One-off recipes for quick information from the console

```
require 'active_sierra_models'
require 'clipboard'

## Looking up information about orders:

# Copy your truncated order numbers into a comma delimited list on your clipboard
os = (Clipboard.paste).split(",")

order_objects = os.collect{ |o| OrderView.find_by_record_num(o) }
output = order_objects.collect do |o|
     puts o.record_num
     bib = o.bib_view
     ## Add other fields as needed
     title = bib.title
     puts title
     payment = o.order_record_paids.order(:paid_date_gmt).last.paid_amount unless o.ord
     fund = o.order_record_cmf.fund
     format = o.material_type_code
     status = o.order_status_code
     acq_type = o.acq_type_code
     "#{title}\t#{payment}\t#{fund}\t#{format}\t#{status}\t#{acq_type}"
end
```

Tricerashopper

Content Services portal developed for acquisitions support. Web application includes expenditure reports, materials request form, and other utilities.

https://github.com/jamesvanmil/tricerashopper

Rake tasks to run reports

Constructed activerecord calls to populate local database

```
def dda_create(x)
  if x.order_view.record_creation_date_gmt > fiscal_year_beginning(Time.now)
    DdaExpenditure.create(
    title: x.order_view.bib_view.title,
    paid: x.paid_amt,
    fund: x.order_view.order_record_cmf.fund,
    paid_date: x.order_view.record_creation_date_gmt
    )
  end
end
```

Materials Request Form

- Built-in Workflow status with notifications
- MARC record export for brief bib and order loads
- User accounts with roles and authorizations

Other ideas?

Thank you!

Sean Crowe (@crowesn)

James Van Mil (@jamesvanmil)

Questions?

Slide source: https://github.com/jamesvanmil/ActiveSierra-c4libmw15