

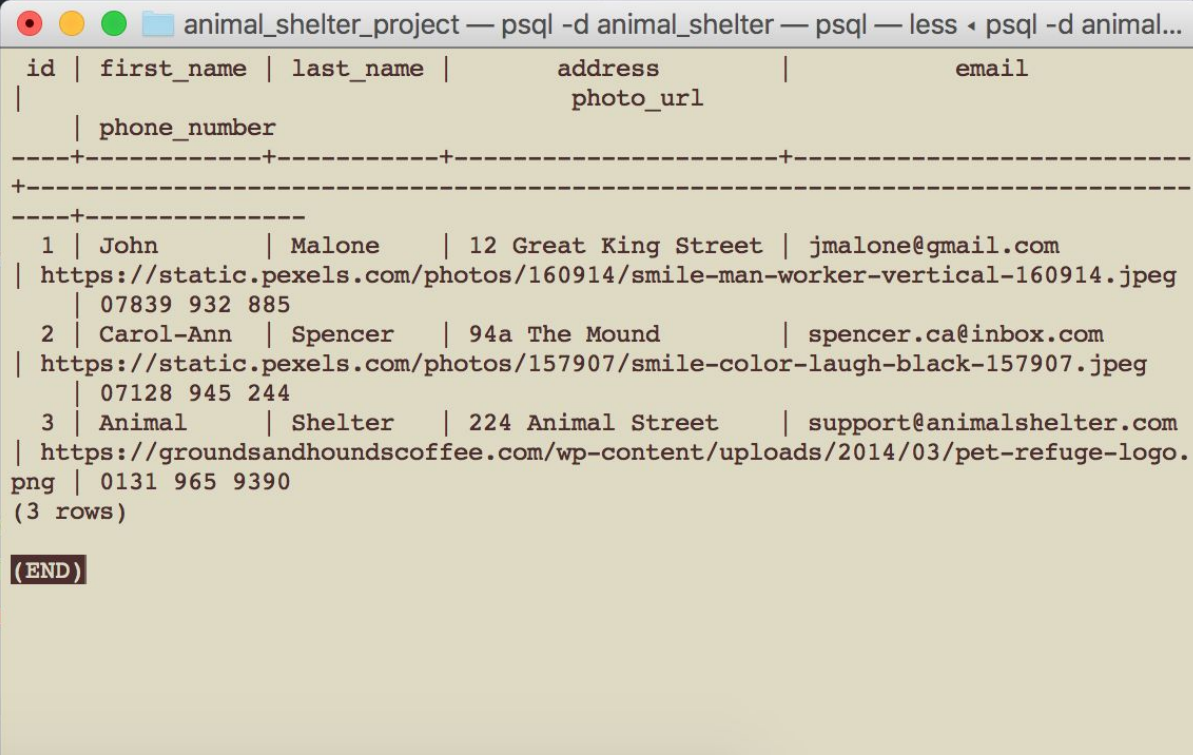
Evidence for project unit I & T
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Week 3 - Reference I.T 3

Demonstrate searching data in a program - The below function is part of the owner.rb file in my animal shelter project, this will be called to search the database and return all owners.

```
def self.all()
  sql = "SELECT * FROM owners"
  values = []
  results = SqlRunner.run(sql, values)
  return results.map { |owner| Owner.new(owner)}
end
```

Below is the SQL query running.



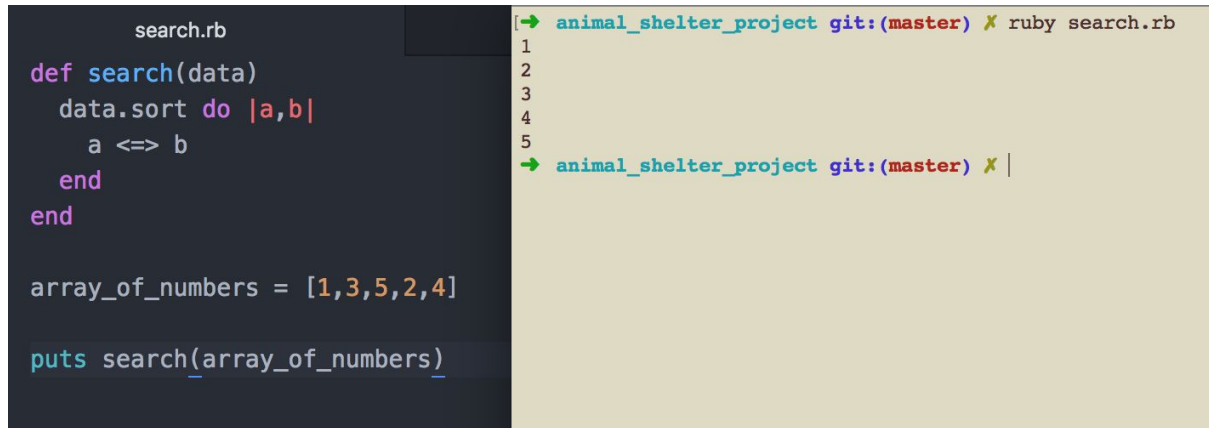
id	first_name	last_name	address	email
1	John	Malone	12 Great King Street	jmalone@gmail.com
2	Carol-Ann	Spencer	94a The Mound	spencer.ca@inbox.com
3	Animal	Shelter	224 Animal Street	support@animalshelter.com

(3 rows)

(END)

Week 3 - Reference I.T 4

Demonstrate sorting data in a program - below screenshot show the search.rb file on the left containing the search function. When it is called on the generated array, the five numbers are sorted into the correct order as per the terminal output on the right.



The screenshot displays a code editor on the left and a terminal window on the right. The code editor shows a file named 'search.rb' with the following Ruby code:

```
search.rb
def search(data)
  data.sort do |a,b|
    a <=> b
  end
end

array_of_numbers = [1,3,5,2,4]

puts search(array_of_numbers)
```

The terminal window on the right shows the command to run the script and the resulting output:

```
→ animal_shelter_project git:(master) ✗ ruby search.rb
1
2
3
4
5
→ animal_shelter_project git:(master) ✗ |
```

The output in the terminal consists of five lines, each containing a single number from 1 to 5, representing the sorted array.