

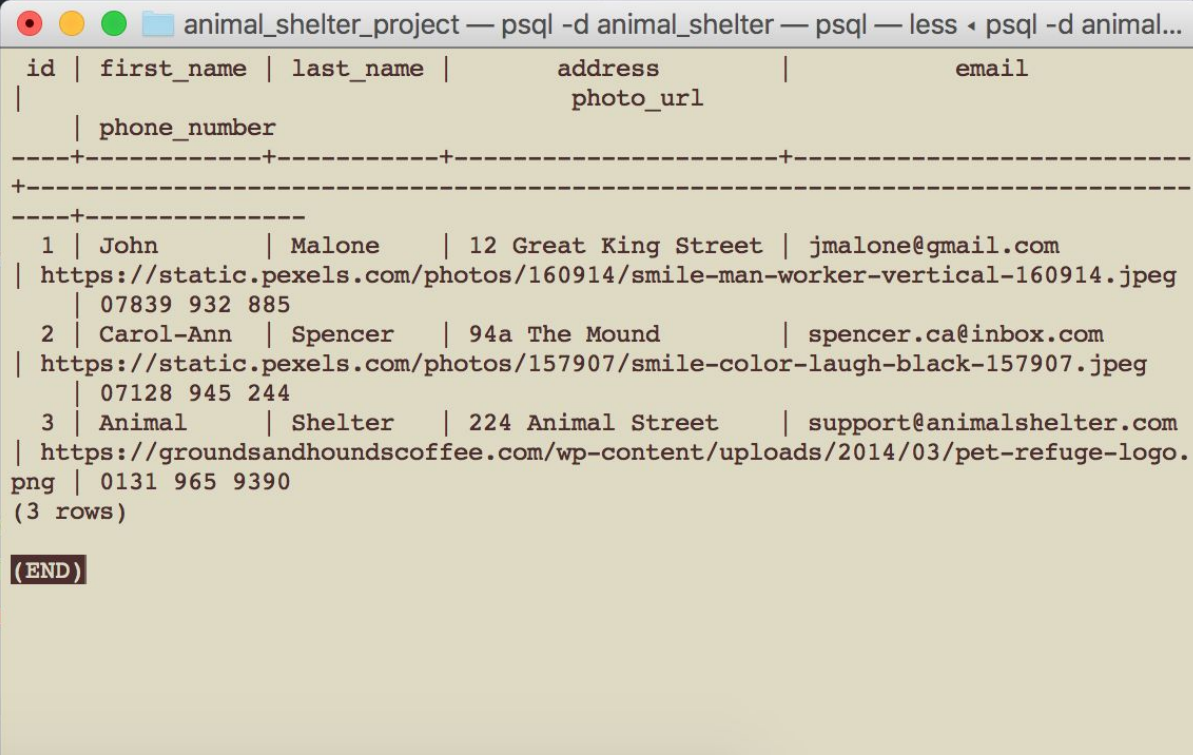
Evidence for project unit I & T
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Week 3 - Reference I.T 3

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.



The terminal window shows the execution of a SQL query in a PostgreSQL database. The window title is 'animal_shelter_project — psql -d animal_shelter — psql — less ◀ psql -d animal...'. The query results are displayed in a table format with columns: id, first_name, last_name, address, photo_url, and email. The results show three rows of data. The first row is for John Malone, the second for Carol-Ann Spencer, and the third for Animal Shelter. The terminal also shows the command prompt '(3 rows)' and a redacted '(END)' at the bottom.

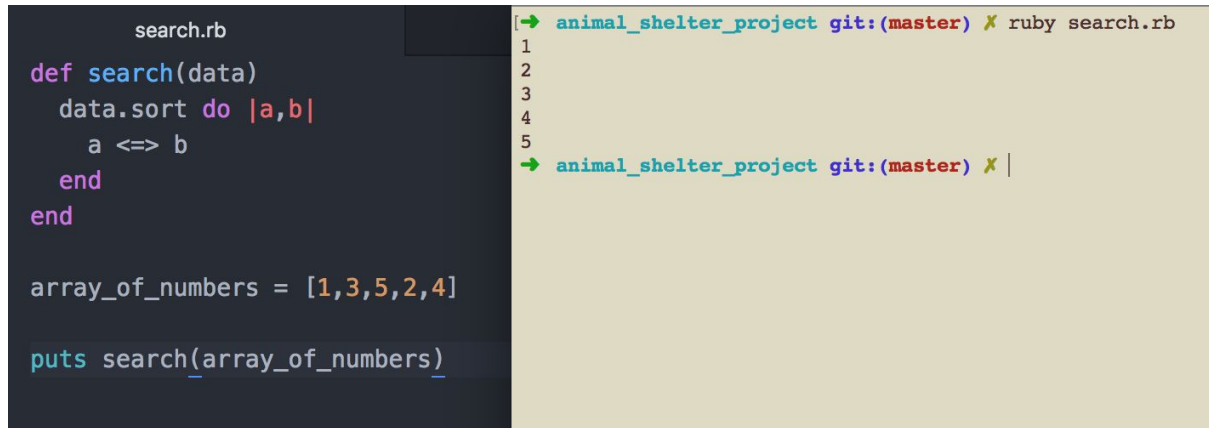
| id | first_name | last_name | address | photo_url | email |
|----|------------|-----------|----------------------|---|---------------------------|
| 1 | John | Malone | 12 Great King Street | https://static.pexels.com/photos/160914/smile-man-worker-vertical-160914.jpeg | jmalone@gmail.com |
| 2 | Carol-Ann | Spencer | 94a The Mound | https://static.pexels.com/photos/157907/smile-color-laugh-black-157907.jpeg | spencer.ca@inbox.com |
| 3 | Animal | Shelter | 224 Animal Street | https://groundsandhoundscoffee.com/wp-content/uploads/2014/03/pet-refuge-logo.png | 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 with two panels. The left panel, titled 'search.rb', contains the following Ruby code:

```
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 right panel shows a terminal window with the following output:

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