Week_3 I.T 3 Demonstrate searching data in a program

Setting up Database connection

```ruby
require('pg')

class SqlRunner

  def self.run( sql, values = [] )
    begin
      db = PG.connect({ dbname: 'codeclan_cinema', host: 'localhost' })
      db.prepare("query", sql)
      result = db.exec_prepared("query", values)
    ensure
      db.close() if db != nil
    end
    return result
  end

end
```

Initialize Class Customer

```ruby
require_relative('../db/sql_runner.rb')

class Customer

  attr_reader :id
  attr_accessor :name, :funds

  def initialize(options)
    @id = options['id'].to_i if options['id']
    @name = options['name']
    @funds = options['funds'].to_i
  end
```

Creating a Method tickets to access the tickets database to search for the ticket information related to a particular customer

```ruby
def tickets()
  sql = "SELECT tickets.* FROM customers INNER JOIN tickets ON customers.id = tickets.customer_id WHERE customers.id = $1"
  values = [@id]
  ticket_hashes = SqlRunner.run(sql, values)
  return Ticket.map_items(ticket_hashes)
end
```

The result

```
[2] pry(main)> customer1.tickets()
=> [#<Ticket:0x007f89095720f8 @customer_id="125", @film_id="94", @id=211, @price="3", @screening_id="304", @seat_no="B12">]
[3] pry(main)>
```

Week_3 I.T 3 Demonstrate sorting data in a program

Initialize Class Ticket

```ruby
class Ticket

  attr_reader :id
  attr_accessor :customer_id, :film_id, :screening_id, :price

  def initialize(options)
    @id = options['id'].to_i if options['id']
    @customer_id = options['customer_id']
    @film_id= options['film_id']
    @screening_id= options['screening_id']
    @price = options['price']
    @seat_no = options['seat_no']
  end
```

The method self.all is also

```ruby
def self.all()
  sql = "SELECT * FROM tickets ORDER BY price"
  ticket_hashes = SqlRunner.run(sql)
  return self.map_items(ticket_hashes)
end
```

The result, sort by price

```
[1] pry(main)> Ticket.all
=> [#<Ticket:0x007faaf080f168 @customer_id="130", @film_id="97", @id=221, @price="3", @screening_id="315", @seat_no="F10">,
 #<Ticket:0x007faaf080e218 @customer_id="129", @film_id="97", @id=218, @price="3", @screening_id="314", @seat_no="B12">,
 #<Ticket:0x007faaf080d3e0 @customer_id="131", @film_id="97", @id=222, @price="3", @screening_id="315", @seat_no="G09">,
 #<Ticket:0x007faaf080cc88 @customer_id="131", @film_id="98", @id=223, @price="4", @screening_id="311", @seat_no="C19">,
 #<Ticket:0x007faaf0005a30 @customer_id="132", @film_id="98", @id=224, @price="4", @screening_id="319", @seat_no="D02">,
 #<Ticket:0x007faaef927f88 @customer_id="130", @film_id="98", @id=219, @price="4", @screening_id="319", @seat_no="H11">,
 #<Ticket:0x007faaef926d18 @customer_id="131", @film_id="99", @id=220, @price="5", @screening_id="317", @seat_no="C05">]
```