```
diff --git a/lib/sql-parser/parser.racc b/lib/sql-parser/parser.racc
index e1079d2..f173148 100644
--- a/lib/sql-parser/parser.racc
+++ b/lib/sql-parser/parser.racc
@@ -18,6 +18,12 @@ rule
    : # no action
     ORDER BY sort_specification_list { result = SQLParser::Statement::OrderBy.new(val[2]) }
 limit_clause
    : # no action
    | LIMIT unsigned_integer { result = SQLParser::Statement::LimitClause.new(val[1], nil) }
    | LIMIT unsigned_integer OFFSET unsigned_integer { result = SQLParser::Statement::LimitClause.new(val[1],
\rightarrow val[3]) }
   | LIMIT unsigned_integer comma unsigned_integer { result = SQLParser::Statement::LimitClause.new(val[3],
\rightarrow val[1]) }
  sort_specification_list
    : sort_specification_list comma sort_specification { result = Array(val[0]) + Array(val[2]) }
    | sort_specification
@@ -26,8 +32,10 @@ rule
    : sort_key ordering_specification { result = val[1].new(val[0]) }
  sort_key
    : column_name
    : column_reference
    | set_function_specification
    | unsigned_integer { result = SQLParser::Statement::Integer.new(val[0]) }
    | numeric_value_expression
  ordering_specification
    : { result = SQLParser::Statement::Ascending } # default
@@ -57,8 +65,14 @@ rule
     : VALUES left_paren in_value_list right_paren { result = SQLParser::Statement::InValueList.new(val[2]) }
  query_specification
    : SELECT select_list table_expression { result = SQLParser::Statement::Select.new(val[1], val[2]) }
    | SELECT select_list { result = SQLParser::Statement::Select.new(val[1]) }
   : SELECT DISTINCTROW select_list table_expression semicolon_not_req { result =

→ SQLParser::Statement::Select.new(val[2], val[3], "DISTINCTROW") }

   | SELECT DISTINCTROW select_list semicolon_not_req { result = SQLParser::Statement::Select.new(val[2],
→ nil, "DISTINCTROW") }
   | SELECT DISTINCT select_list table_expression semicolon_not_req { result =
\  \, \rightarrow \  \, \text{SQLParser::Statement::Select.new(val[2], val[3], "DISTINCT")} \,\, \}
    | SELECT DISTINCT select_list semicolon_not_req { result = SQLParser::Statement::Select.new(val[2], nil,
→ "DISTINCT") }
   | SELECT ALL select_list table_expression semicolon_not_req { result =
   SQLParser::Statement::Select.new(val[2], val[3], "ALL") }
   | SELECT ALL select_list semicolon_not_req { result = SQLParser::Statement::Select.new(val[2], nil,
→ "ALL") }
    | SELECT select_list table_expression semicolon_not_req { result =

    SQLParser::Statement::Select.new(val[1], val[2]) }

   | SELECT select_list semicolon_not_req { result = SQLParser::Statement::Select.new(val[1]) }
  select_list
    : asterisk { result = SQLParser::Statement::All.new }
@@ -74,7 +88,7 @@ rule
    | value_expression
  table_expression
    : from_clause where_clause group_by_clause having_clause { result =

→ SQLParser::Statement::TableExpression.new(val[0], val[1], val[2], val[3]) }

    : from_clause where_clause group_by_clause having_clause limit_clause { result =
SQLParser::Statement::TableExpression.new(val[0], val[1], val[2], val[3], val[4]) }
```

```
from_clause
     : FROM table_reference { result = SQLParser::Statement::FromClause.new(val[1]) }
     : table_name AS column_name { result = SQLParser::Statement::As.new(val[0], val[2]) }
     | table_name column_name { result = SQLParser::Statement::As.new(val[0], val[1]) }
     | table_name
     | subquery
     | joined_table
  table_subquery
00 -134,7 +149,9 00 rule
     | grouping_column_reference
  grouping_column_reference
    : column_reference
    : exact_numeric_literal
    | column_reference
  | numeric_value_expression
  having_clause
    : # no action
@@ -164.8 +181.8 @@ rule
    # FIXME: the SQL-92 grammar indicates these should be
    # character_value_expression nodes, but changing them causes reduce/reduce
    # conflicts.
     : row_value_constructor NOT LIKE row_value_constructor { result =

→ SQLParser::Statement::Not.new(SQLParser::Statement::Like.new(val[0], val[3])) }

    | row_value_constructor LIKE row_value_constructor { result = SQLParser::Statement::Like.new(val[0],
   : row_value_constructor NOT LIKE general_literal { result =
   SQLParser::Statement::Not.new(SQLParser::Statement::Like.new(val[0], val[3])) }
   | row_value_constructor LIKE general_literal { result = SQLParser::Statement::Like.new(val[0], val[2]) }
  null_predicate
     : row_value_constructor IS NOT NULL { result =
     SQLParser::Statement::Not.new(SQLParser::Statement::Is.new(val[0], SQLParser::Statement::Null.new)) }
@@ -232,6 +249,7 @@ rule
  numeric_value_expression
     : term plus_sign numeric_value_expression { result = SQLParser::Statement::Add.new(val[0], val[2]) }
     term minus_sign numeric_value_expression { result = SQLParser::Statement::Subtract.new(val[0], val[2])
     | term modulo numeric_value_expression { result = SQLParser::Statement::Modulo.new(val[0], val[2]) }
     | term
   term
@@ -273,6 +291,7 @@ rule
  general_set_function
     : COUNT left_paren value_expression right_paren { result = SQLParser::Statement::Count.new(val[2]) }
     | LENGTH left_paren value_expression right_paren { result = SQLParser::Statement::Length.new(val[2]) }
     | AVG left_paren value_expression right_paren { result = SQLParser::Statement::Average.new(val[2]) }
     | MAX left_paren value_expression right_paren { result = SQLParser::Statement::Maximum.new(val[2]) }
     | MIN left_paren value_expression right_paren { result = SQLParser::Statement::Minimum.new(val[2]) }
@@ -322,6 +341,10 @@ rule
  date_literal
     : DATE date_string { result = SQLParser::Statement::Date.new(val[1]) }
+ semicolon_not_req
     :semicolon
     | # do nothing
 ---- header ----
```

```
require File.dirname(__FILE__) + '/parser.rex.rb'
diff --git a/lib/sql-parser/parser.racc.rb b/lib/sql-parser/parser.racc.rb
index a14a43c..6c1b4de 100644
--- a/lib/sql-parser/sql_visitor.rb
+++ b/lib/sql-parser/sql_visitor.rb
@@ -36,7 +36,11 @@ module SQLParser
       # FIXME: This feels like a hack
       initialize
       if o.filter.nil?
         "SELECT #{visit_all([o.list, o.table_expression].compact).join(' ')}"
         "SELECT #{o.filter} #{visit_all([o.list, o.table_expression].compact).join(' ')}"
     end
     def visit_SelectList(o)
@@ -56,7 +60,8 @@ module SQLParser
         o.from_clause,
         o.where_clause,
         o.group_by_clause,
         o.having_clause
        o.having_clause,
        o.limit_clause
       ].compact.collect { |e| visit(e) }.join(' ')
     end
00 -88,6 +93,14 00 module SQLParser
       "WHERE #{visit(o.search_condition)}"
     end
+
    def visit_LimitClause(o)
       if o.offset.nil?
         "LIMIT #{o.limit}"
         "LIMIT #{o.limit} OFFSET #{o.offset}"
       end
     end
     def visit_On(o)
       "ON #{visit(o.search_condition)}"
@@ -196,6 +209,10 @@ module SQLParser
       aggregate('COUNT', o)
     end
     def visit_Length(o)
       aggregate('LENGTH', o)
     end
     def visit_CrossJoin(o)
       "#{visit(o.left)} CROSS JOIN #{visit(o.right)}"
@@ -252,6 +269,10 @@ module SQLParser
       arithmetic('/', o)
     end
    def visit_Modulo(o)
       arithmetic('%', o)
     end
     def visit_Add(o)
```

```
arithmetic('+', o)
diff --git a/lib/sql-parser/statement.rb b/lib/sql-parser/statement.rb
index cc878a6..40139a0 100644
--- a/lib/sql-parser/statement.rb
+++ b/lib/sql-parser/statement.rb
@@ -75,14 +75,15 @@ module SQLParser
     end
     class Select < Node
       def initialize(list, table_expression = nil)
       def initialize(list, table_expression = nil, filter = nil)
         @list = list
         @table_expression = table_expression
         @filter = filter
       end
       attr_reader :list
       attr_reader :table_expression
       attr_reader :filter
     end
     class SelectList < Node</pre>
@@ -110,17 +111,19 @@ module SQLParser
     class TableExpression < Node</pre>
       def initialize(from_clause, where_clause = nil, group_by_clause = nil, having_clause = nil)
       def initialize(from_clause, where_clause = nil, group_by_clause = nil, having_clause = nil,
   limit_clause = nil)
         @from_clause = from_clause
         @where_clause = where_clause
         @group_by_clause = group_by_clause
         @having_clause = having_clause
         @limit_clause = limit_clause
       attr_reader :from_clause
       attr_reader :where_clause
       attr_reader :group_by_clause
       attr_reader :having_clause
       attr_reader :limit_clause
     end
@@ -190,6 +193,16 @@ module SQLParser
     end
     class LimitClause < Node</pre>
       def initialize(limit, offset)
         @limit = limit
        @offset = offset
       end
       attr_reader : limit, : offset
     end
     class On < Node
       def initialize(search_condition)
```

```
@@ -318,6 +331,10 @@ module SQLParser
     end
     class Length < Aggregate</pre>
     class Sum < Aggregate
     end
@@ -441,6 +458,9 @@ module SQLParser
     class Add < Arithmetic</pre>
     end
     class Modulo < Arithmetic</pre>
     end
     class Subtract < Arithmetic</pre>
     end
diff --git a/lib/sql-parser/version.rb b/lib/sql-parser/version.rb
index Off6a77..53de3ad 100644
--- a/lib/sql-parser/version.rb
+++ b/lib/sql-parser/version.rb
@@ -1,5 +1,5 @@
module SQLParser
- VERSION = '0.0.2'
+ VERSION = '0.0.14'
diff --git a/sql-parser.gemspec b/sql-parser-vlad.gemspec
similarity index 85%
rename from sql-parser.gemspec
rename to sql-parser-vlad.gemspec
index 569db16..745ef68 100644
--- a/sql-parser.gemspec
+++ b/sql-parser-vlad.gemspec
@@ -3,7 +3,7 @@ require 'sql-parser/version'
 Gem::Specification.new do |s|
              = 'sql-parser'
  s.name
               = 'sql-parser-vlad'
+ s.name
   s.version = SQLParser::VERSION
               = ['Dray Lacy', 'Louis Mullie']
   s.authors
            = ['dray@izea.com', 'louis.mullie@gmail.com']
@@ -19,5 +19,6 @@ Gem::Specification.new do |s|
   s.add_development_dependency 'rexical', '1.0.5'
   s.add_development_dependency 'rake'
   s.add_development_dependency 'pry-byebug'
+ s.add_development_dependency 'test-unit'
+ s.add_development_dependency 'pry'
 end
diff --git a/test/test_parser.rb b/test/test_parser.rb
index 7f956a4..ed7646d 100644
--- a/test/test_parser.rb
+++ b/test/test_parser.rb
00 -1,4 +1,4 00
-require File.dirname(__FILE__) + '/../lib/sql-parser'
+require_relative '../lib/sql-parser'
```

```
require 'test/unit'
 class TestParser < Test::Unit::TestCase</pre>
@@ -15,14 +15,13 @@ class TestParser < Test::Unit::TestCase
     assert_understands 'INSERT INTO `users` VALUES (1, 2)'
- def test_insert_into_clause
  def test_insert_into_clause_2
    assert_understands 'INSERT INTO `users` VALUES (`a`, `b`)'
   end
  def test_insert_with_quotes
     q = 'INSERT INTO "users" ("active", "created_on", "email", "last_login", "password", "salt", "username")

→ VALUES ("a", "b", "c", "c", "e") '

    q.gsub!(/([^\\])"/) { $1 + '`' }
    puts q.inspect
    assert_understands q
  end
@@ -119,6 +118,7 @@ class TestParser < Test::Unit::TestCase
    assert_understands 'SELECT * FROM `users` GROUP BY `users`.`name`'
    assert_understands 'SELECT * FROM `users` GROUP BY `name`, `id`'
    assert_understands 'SELECT * FROM `users` GROUP BY `users`.`name`, `users`.`id`'
    assert_understands 'SELECT `c1` FROM `t1` GROUP BY 1'
   end
  def test_or
00 -281,11 +281,11 00 class TestParser < Test::Unit::TestCase
  def test_quoting
    assert_sql %{SELECT ''}, %{SELECT ""}
    # assert_sql %{SELECT ''}, %{SELECT ""}
    assert_understands %{SELECT ''}
    assert_sql %{SELECT 'Quote "this"'}, %{SELECT "Quote ""this"""}
    assert_understands %{SELECT 'Quote ''this!'''}
    # assert_sql %{SELECT 'Quote "this"'}, %{SELECT "Quote ""this"""}
    # assert_understands %{SELECT 'Quote ''this!'''}
    # # FIXME
     # assert_sql %{SELECT '"'}, %{SELECT """"}
@@ -363,6 +363,64 @@ class TestParser < Test::Unit::TestCase
     assert_understands 'SELECT 10'
  end
  def test_filter
   assert_understands 'SELECT DISTINCT 1'
    assert_understands 'SELECT DISTINCT 1 FROM `t1`'
    assert_understands 'SELECT DISTINCTROW 10'
   assert_understands 'SELECT DISTINCTROW 10 FROM `t1`'
   assert_understands 'SELECT ALL 10'
    assert_understands 'SELECT ALL 10 FROM `t1`'
  end
  def test_limit
    assert_understands 'SELECT `c1` FROM `t1` LIMIT 2'
    assert_understands 'SELECT `c1` FROM `t1` LIMIT 2 OFFSET 2'
      'SELECT `c1` FROM `t1` LIMIT 2 OFFSET 3',
       'SELECT `c1` FROM `t1` LIMIT 3, 2'
```

```
end
  def test_order_by_table
   assert_understands 'SELECT `c1` FROM `t1` ORDER BY `c1`.`id` ASC'
+ def test_subquery_in_from
    assert_understands 'SELECT * FROM (SELECT * FROM `t1`)'
  def test_modulo
    assert_understands 'SELECT * FROM `table1` WHERE (`id` % 2) = 0'
  def test_like_double
    assert_understands "SELECT * FROM `table1` WHERE (`ID` LIKE '%a' AND `ID` LIKE '%b')"
  def test_substr
    assert_understands "SELECT LENGTH(`a`) FROM `table1`"
+ def test_order_count
    assert_understands "SELECT * FROM `a` ORDER BY COUNT(`a`.`id`) ASC"
  def test_group_funct
    assert_understands "SELECT * FROM `a` GROUP BY (`a` * `b`)"
  def test_order_funct
    assert_understands "SELECT * FROM `a` ORDER BY (`a` * `b`) ASC"
  def test_semicolon
    assert_sql "SELECT * FROM `a`", "SELECT * FROM `a`;"
   assert_sql "SELECT ALL * FROM `a`", "SELECT ALL * FROM `a`;"
   assert_sql "SELECT DISTINCT * FROM `a`", "SELECT DISTINCT * FROM `a`;"
    assert_sql "SELECT DISTINCTROW * FROM `a`", "SELECT DISTINCTROW * FROM `a`;"
    assert_sql "SELECT 1", "SELECT 1;"
  end
  private
  def assert_sql(expected, given)
```