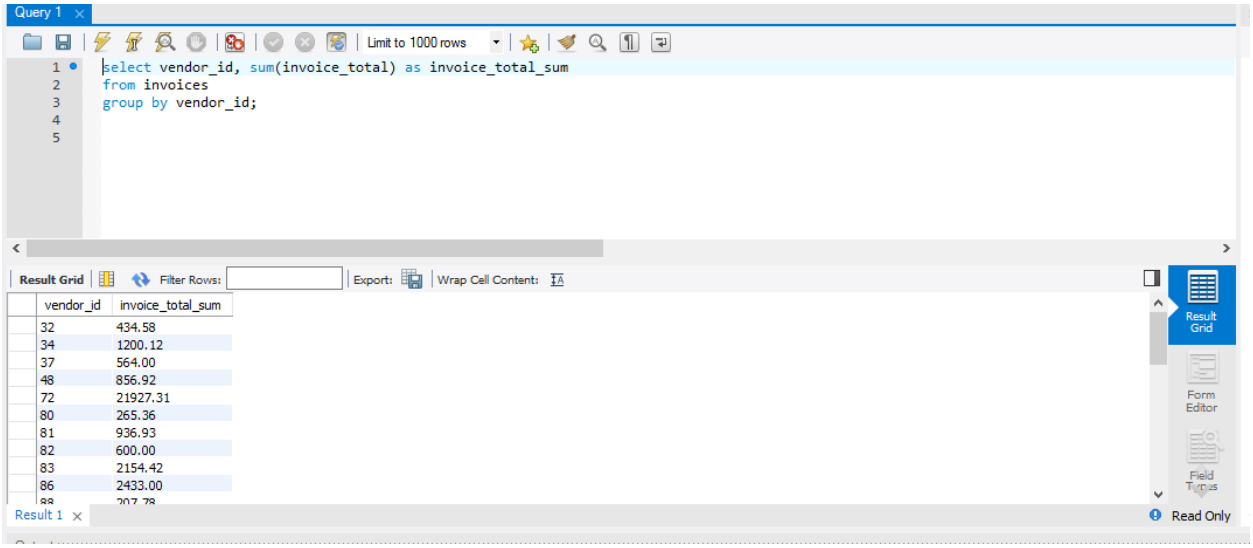
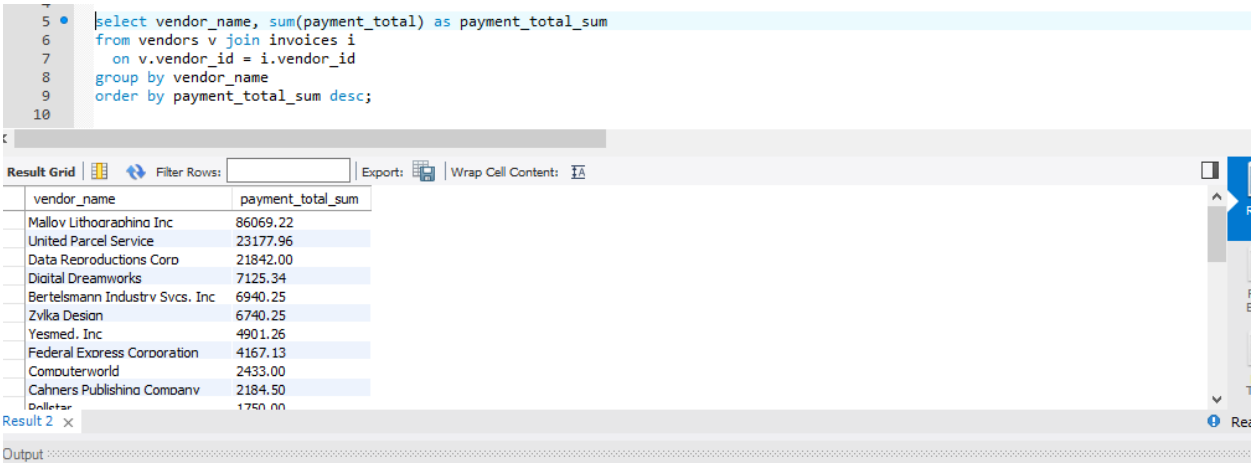
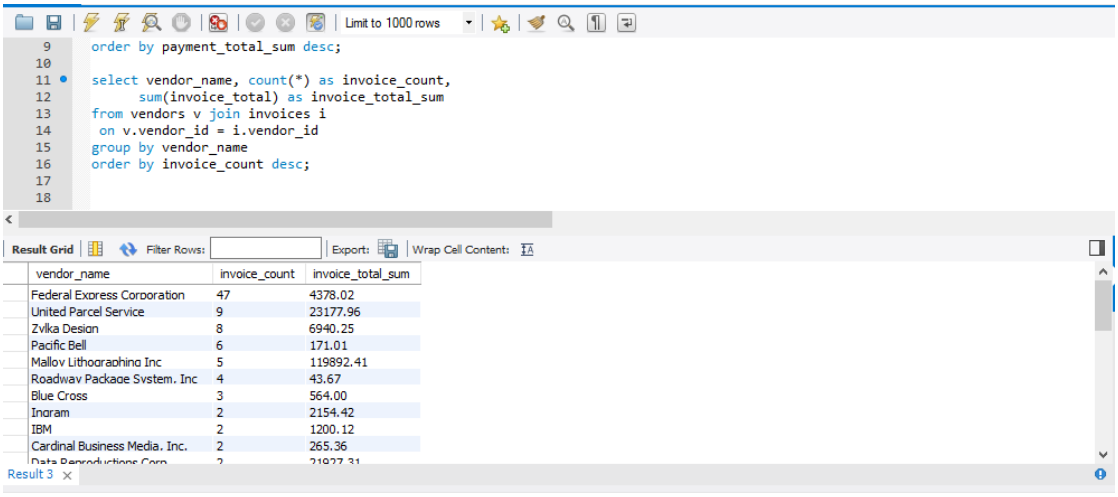
6.1


Query 1
Limit to 1000 rows
select vendor_id, sum(invoice_total) as invoice_total_sum
from invoices
group by vendor_id;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
vendor_id invoice_total_sum
32 434.58
34 1200.12
37 564.00
48 856.92
72 21927.31
80 265.36
81 936.93
82 600.00
83 2154.42
86 2433.00
Result 1
Read Only

6.2


select vendor_name, sum(payment_total) as payment_total_sum
from vendors v join invoices i
on v.vendor_id = i.vendor_id
group by vendor_name
order by payment_total_sum desc;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
vendor_name payment_total_sum
Mallov Lithographing Inc 86069.22
United Parcel Service 23177.96
Data Reproductions Corp 21842.00
Digital Dreamworks 7125.34
Bertelsmann Industry Svcs. Inc 6940.25
Zylka Design 6740.25
Yesmed, Inc 4901.26
Federal Express Corporation 4167.13
Computerworld 2433.00
Cahners Publishing Company 2184.50
Result 2
Output

6.3


Limit to 1000 rows
order by payment_total_sum desc;
select vendor_name, count(*) as invoice_count,
sum(invoice_total) as invoice_total_sum
from vendors v join invoices i
on v.vendor_id = i.vendor_id
group by vendor_name
order by invoice_count desc;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
vendor_name invoice_count invoice_total_sum
Federal Express Corporation 47 4378.02
United Parcel Service 9 23177.96
Zylka Design 8 6940.25
Pacific Bell 6 171.01
Mallov Lithographing Inc 5 119892.41
Roadway Package System, Inc 4 43.67
Blue Cross 3 564.00
Ingram 2 2154.42
IBM 2 1200.12
Cardinal Business Media, Inc. 2 265.36
Result 3

6.4

```
select account_description, count(*) as line_item_count,
       sum(line_item_amount) as line_item_amount_sum
from general_ledger_accounts gl
  join invoice_line_items li
    on gl.account_number = li.account_number
group by account_description
having line_item_count > 1
order by line_item_amount_sum desc;
```

account_description	line_item_count	line_item_amount_sum
Book Printing Costs	8	148759.97
Freight	60	27599.65
Outside Services	3	13394.10
Book Production Costs	8	6175.12
Books. Dues. and Subscriptions	6	5207.32
Direct Mail Advertising	6	3900.77
Computer Equipment	4	2317.28
Group Insurance	3	564.00
Telephone	7	266.01
Office Supplies	3	175.80

6.5

```
select account_description, count(*) as line_item_count,
       sum(line_item_amount) as line_item_amount_sum
from general_ledger_accounts gl
  join invoice_line_items li
    on gl.account_number = li.account_number
  join invoices i
    on li.invoice_id = i.invoice_id
where invoice_date between '2014-04-01' and '2014-06-30'
group by account_description
having line_item_count > 1
order by line_item_amount_sum desc;
```

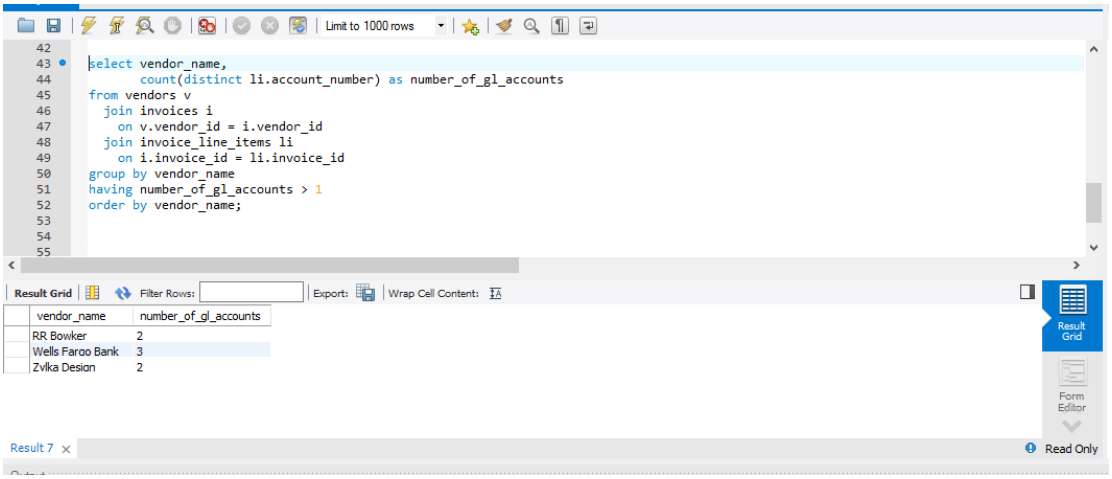
account_description	line_item_count	line_item_amount_sum
Book Printing Costs	3	66748.44
Freight	41	17624.19
Outside Services	3	13394.10
Book Production Costs	7	5174.66
Books. Dues. and Subscriptions	4	4027.90
Direct Mail Advertising	5	3810.41
Computer Equipment	3	2137.05
Group Insurance	2	340.00
Telephone	5	193.54

6.6

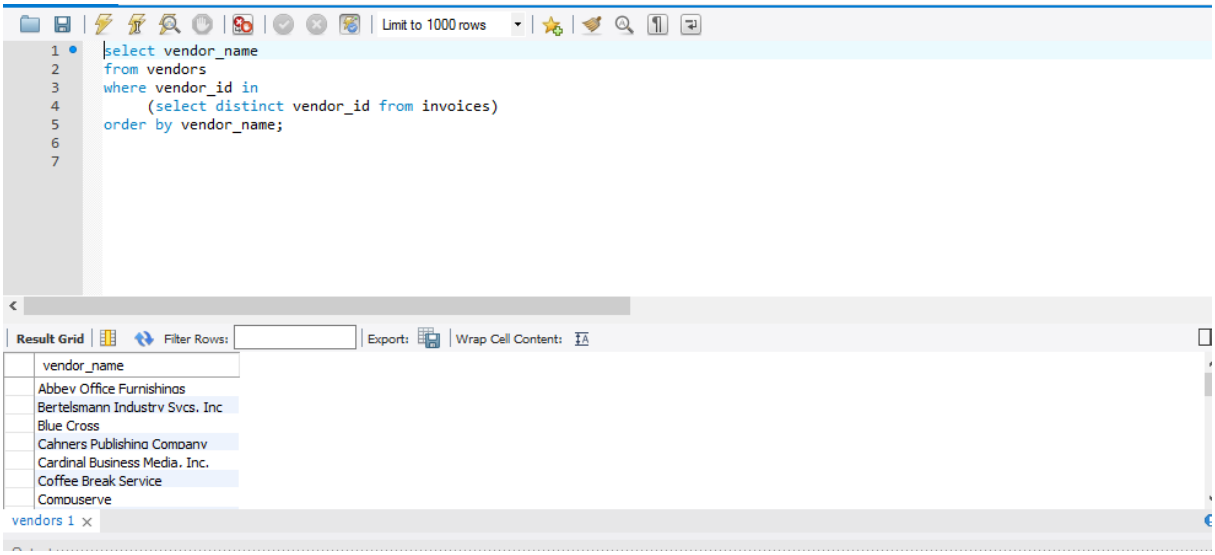
```
where invoice_date between '2014-04-01' and '2014-06-30'
group by account_description
having line_item_count > 1
order by line_item_amount_sum desc;

select account_number, sum(line_item_amount) as line_item_sum
from invoice_line_items
group by account_number with rollup;
```

account_number	line_item_sum
150	17.50
160	2317.28
170	356.48
400	148759.97
403	6175.12
507	1600.00
510	564.00
520	1750.00
521	16.62

6.7


Limit to 1000 rows
select vendor_name,
count(distinct li.account_number) as number_of_gl_accounts
from vendors v
join invoices i
on v.vendor_id = i.vendor_id
join invoice_line_items li
on i.invoice_id = li.invoice_id
group by vendor_name
having number_of_gl_accounts > 1
order by vendor_name;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
vendor_name
number_of_gl_accounts
RR Bowker 2
Wells Fargo Bank 3
Zylka Design 2
Result 7
Read Only

7.1


Limit to 1000 rows
select vendor_name
from vendors
where vendor_id in
(select distinct vendor_id from invoices)
order by vendor_name;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
vendor_name
Abbey Office Furnishings
Bertelsmann Industry Svcs. Inc
Blue Cross
Cahners Publishing Company
Cardinal Business Media, Inc.
Coffee Break Service
Compuserve
vendors 1

7.2

```
select vendor_name
from vendors
where vendor_id in
     (select distinct vendor_id from invoices)
order by vendor_name;

select invoice_number, invoice_total
from invoices
where payment_total >
     (select avg(payment_total)
      from invoices
      where payment_total > 0)
order by invoice_total desc;
```

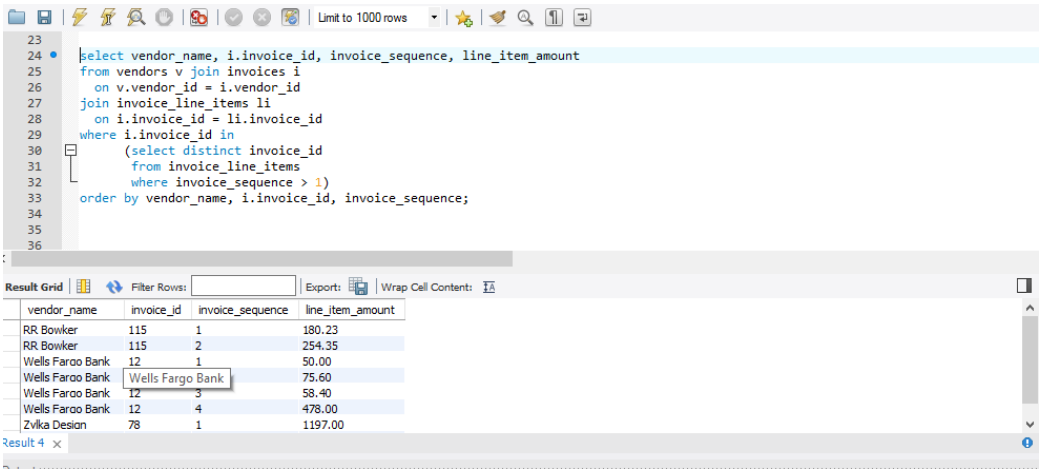
invoice_number	invoice_total
0-2058	37966.19
P-0259	26881.40
0-2060	23517.58
40318	21842.00
P02-3772	7125.34
509786	6940.25
10843	4901.26

7.3

```
select account_number, account_description
from general_ledger_accounts gl
where not exists
    (select *
     from invoice_line_items
     where account_number = gl.account_number)
order by account_number;
```

account_number	account_description
100	Cash
110	Accounts Receivable
120	Book Inventory
162	Capitalized Lease
167	Software
181	Book Development
200	Accounts Payable

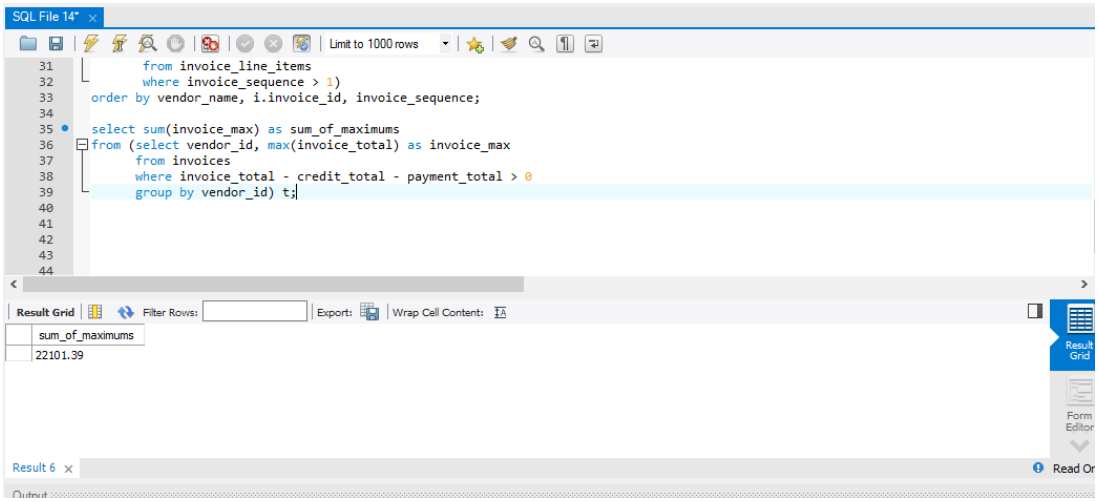
7.4



```
select vendor_name, i.invoice_id, invoice_sequence, line_item_amount
from vendors v join invoices i
  on v.vendor_id = i.vendor_id
join invoice_line_items li
  on i.invoice_id = li.invoice_id
where i.invoice_id in
      (select distinct invoice_id
       from invoice_line_items
       where invoice_sequence > 1)
order by vendor_name, i.invoice_id, invoice_sequence;
```

vendor_name	invoice_id	invoice_sequence	line_item_amount
RR Bowker	115	1	180.23
RR Bowker	115	2	254.35
Wells Fargo Bank	12	1	50.00
Wells Fargo Bank	12	2	75.60
Wells Fargo Bank	12	3	58.40
Wells Fargo Bank	12	4	478.00
Zylka Design	78	1	1197.00

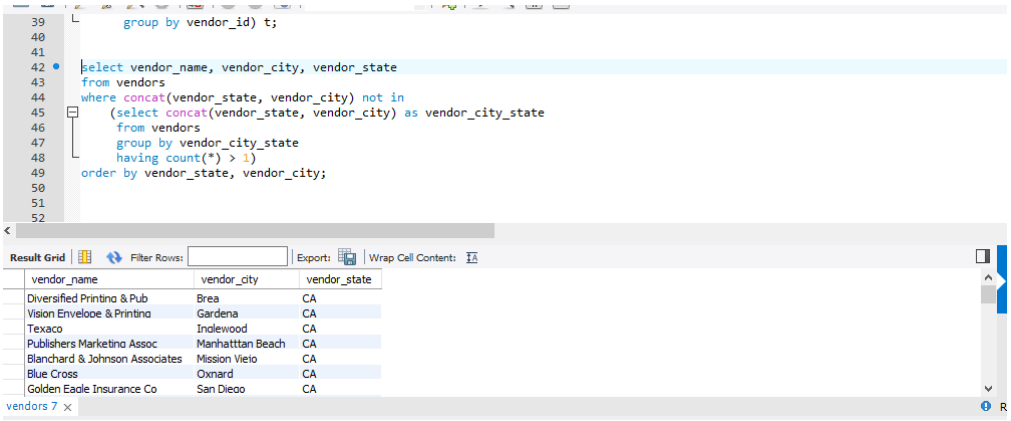
7.5



```
      from invoice_line_items
      where invoice_sequence > 1)
order by vendor_name, i.invoice_id, invoice_sequence;

select sum(invoice_max) as sum_of_maximums
from (select vendor_id, max(invoice_total) as invoice_max
      from invoices
      where invoice_total - credit_total - payment_total > 0
      group by vendor_id) t;
```

sum_of_maximums
22101.39

7.6



```
      group by vendor_id) t;

select vendor_name, vendor_city, vendor_state
from vendors
where concat(vendor_state, vendor_city) not in
    (select concat(vendor_state, vendor_city) as vendor_city_state
     from vendors
     group by vendor_city_state
     having count(*) > 1)
order by vendor_state, vendor_city;
```

vendor_name	vendor_city	vendor_state
Diversified Printing & Pub	Brea	CA
Vision Envelope & Printing	Gardena	CA
Texaco	Inglewood	CA
Publishers Marketing Assoc	Manhatttan Beach	CA
Blanchard & Johnson Associates	Mission Viejo	CA
Blue Cross	Oxnard	CA
Golden Eagle Insurance Co	San Diego	CA

7.7

```
select vendor_name, invoice_number,
       invoice_date, invoice_total
from invoices i join vendors v
  on i.vendor_id = v.vendor_id
where invoice_date =
  (select min(invoice_date)
   from invoices
   where vendor_id = i.vendor_id)
order by vendor_name
```

vendor_name	invoice_number	invoice_date	invoice_total
Abbey Office Furnishings	203339-13	2014-07-05	17.50
Bertelsmann Industry Svcs. Inc	509786	2014-06-18	6940.25
Blue Cross	547481328	2014-06-03	224.00
Cahners Publishing Company	587056	2014-06-30	2184.50
Cardinal Business Media, Inc.	133560	2014-06-22	175.00
Coffee Break Service	109596	2014-06-24	41.80
Compuserve	21-4748363	2014-05-03	9.95

7.8

```
select vendor_name, invoice_number,
       invoice_date, invoice_total
from invoices i
    join
    (
      select vendor_id, min(invoice_date) as oldest_invoice_date
      from invoices
      group by vendor_id
    ) oi
    on i.vendor_id = oi.vendor_id and
       i.invoice_date = oi.oldest_invoice_date
    join vendors v
    on i.vendor_id = v.vendor_id
order by vendor_name;
```

vendor_name	invoice_number	invoice_date	invoice_total
Abbey Office Furnishings	203339-13	2014-07-05	17.50
Bertelsmann Industry Svcs. Inc	509786	2014-06-18	6940.25
Blue Cross	547481328	2014-06-03	224.00
Cahners Publishing Company	587056	2014-06-30	2184.50
Cardinal Business Media, Inc.	133560	2014-06-22	175.00
Coffee Break Service	109596	2014-06-24	41.80