Chapter 7 examples

1)

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) DISTINCT vendor\_name FROM vendors WHERE vendor\_id [IN](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#function_in) ([SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) vendor\_id FROM invoices) ORDER BY vendor\_name

2)

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) invoice\_number, invoice\_total FROM invoices WHERE payment\_total > ([SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) [AVG](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_avg)(payment\_total) FROM invoices WHERE payment\_total > 0) ORDER BY invoice\_total DESC

3)

[SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) account\_number, account\_description FROM general\_ledger\_accounts WHERE [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) EXISTS ([SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) account\_number FROM invoice\_line\_items WHERE account\_number = general\_ledger\_accounts.account\_number) ORDER BY account\_number

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

5)

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

6)

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

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

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