**SQL Extra Practice -- Solutions**

*Assuming you have execute P11 – Lab Setup file, you can copy to mySQL workbench to see the running result as well.*

use dbms\_orders;

set sql\_mode = 'ansi';

-- 1. FYI: ansi syntax: this statement only works when you set sql\_mode ='ansi'.

-- Do NOT use ansi syntax in your SQL Test

select fname||' '||lname Customer\_name, substr(zipcode, 3, 3) zipCode\_Last3digits

from customer

where state\_code IN ('CA', 'NJ', 'AZ');

-- 1. MySQL syntax. Different DBMS may have variations.

SELECT concat(fname,' ',lname) Customer\_name,

substr(zipcode, 3, 3) zipCode\_Last3digits

FROM customer

WHERE state\_code IN ('CA', 'NJ', 'AZ');

-- 2.

SELECT order\_num, ship\_charge, round(ship\_charge\*0.9) new\_ship\_charge

FROM orders;

-- 3. FYI: Ansi syntax.

select order\_num, customer\_num, order\_date, paid\_date,

paid\_date - order\_date date\_span

from orders where paid\_date is not null;

-- 3. MySQL syntax vs ansi syntax, this example illustrate that

-- Ansi does not return correct number in MySQL.

-- Correct data is very important for any decision making

SELECT order\_num, customer\_num, order\_date, paid\_date,

datediff(paid\_date, order\_date) mySql\_span,

paid\_date-order\_date ansi\_span

FROM orders

WHERE paid\_date IS NOT NULL;

-- 4.

SELECT c.customer\_num, fname, lname, order\_num, order\_date

FROM customer c

INNER JOIN orders o

ON c.customer\_num = o.customer\_num

ORDER BY 2;

-- 5.

SELECT suppl\_name, count(\*)

FROM supplier s

INNER JOIN product p

ON s.suppl\_code = p.suppl\_code

WHERE lead\_time\_in\_days > 7

GROUP BY suppl\_name;

-- 6.

SELECT c.customer\_num, c.fname, c.lname, count(o.order\_num) no\_of\_orders

FROM customer c

INNER JOIN orders o

ON c.customer\_num= o.customer\_num

WHERE order\_date BETWEEN '1994-06-01' AND '1994-06-30'

GROUP BY c.customer\_num, c.fname, c.lname

HAVING count(o.order\_num) > 1;

-- 7. product order info is in order\_detail table.

SELECT p.prod\_desc, s.suppl\_name, count(\*), sum(total\_price)

FROM order\_detail d

INNER JOIN product\_desc p

ON d.PROD\_NUM=p.prod\_num

INNER JOIN supplier s

ON d.SUPPL\_CODE= s.SUPPL\_CODE

GROUP BY p.prod\_desc, s.suppl\_name;

-- 8.

UPDATE product

SET unit\_price = unit\_price\*1.2

WHERE prod\_num=102 AND suppl\_code=’HSK’;

-- You will not be able to run this query.

-- You are expected to get 1142 error.

-- If you get error message other than the above, it means you have syntax error.