***LAB 7***

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-- Lab 7

-- Question 1

-- 1a

SELECT vendors.vendor\_id,vendor\_name,invoice\_date,invoice\_total

FROM ap.vendors, ap.invoices

WHERE vendors.vendor\_id= invoices.vendor\_id

ORDER BY invoice\_date;

-- 1a using alias

SELECT v.vendor\_id,vendor\_name,invoice\_date,invoice\_total

FROM ap.vendors v, ap.invoices i

WHERE v.vendor\_id= i.vendor\_id

ORDER BY invoice\_date;

-- 1b (INNER JOIN)

select v.vendor\_id,i.vendor\_id,

v.vendor\_name,i.invoice\_date,i.invoice\_total

from ap.vendors v

JOIN ap.invoices i

ON v.vendor\_id = i.vendor\_id

ORDER BY invoice\_date;

-- 1c Using keyword

select v.vendor\_id,i.vendor\_id,

v.vendor\_name,i.invoice\_date,i.invoice\_total

from ap.vendors v

INNER JOIN ap.invoices i

USING(vendor\_id);

-- 1d Using NATURAL JOIN

SELECT v.vendor\_id,i.vendor\_id,

v.vendor\_name,i.invoice\_date,i.invoice\_total

from ap.vendors v

NATURAL JOIN ap.invoices i;

-- Question 2

SELECT

e.employee\_id,

CONCAT\_WS(',',e.first\_name,e.last\_name)AS 'Employee Name',

d.department\_name

FROM ex.employees e

INNER JOIN

ex.departments d USING(department\_number)

ORDER BY first\_name;

-- Question 3

-- 3a

SELECT e.employee\_id,

CONCAT\_WS(',',e.first\_name,e.last\_name)AS 'EmployeeName',

d.department\_name

FROM ex.employees e

LEFT JOIN ex.departments d

ON e.department\_number = d.department\_number;

-- where d.department\_number IS NULL;

-- 3b

SELECT e.first\_name,

e.last\_name,

d.department\_name

FROM employees e

RIGHT OUTER JOIN departments d

ON e.department\_id = d.department\_id;

-- 3c

SELECT e.employee\_id,

CONCAT\_WS(',', e.first\_name, e.last\_name) AS 'EmployeeName',

d.department\_name

FROM ex.departments d

RIGHT JOIN ex.employees e ON e.department\_number = d.department\_number

WHERE d.department\_name IS NULL;

-- 3d

SELECT

CONCAT\_WS(',',e.last\_name,e.first\_name)AS 'EmployeeName',

d.department\_name

FROM ex.employees e

RIGHT JOIN ex.departments d

ON e.department\_number = d.department\_number

UNION

SELECT

CONCAT\_WS(',',e.last\_name,e.first\_name)AS 'EmployeeName',

d.department\_name

FROM ex.employees e

LEFT JOIN ex.departments d

ON e.department\_number = d.department\_number;

-- Question 4

SELECT om.customers.customer\_zip,

CONCAT\_WS(',',om.customers.customer\_last\_name,om.customers.customer\_first\_name)AS 'EmployeeName',

ap.vendors.vendor\_name

FROM ap.vendors,om.customers

WHERE ap.vendors.vendor\_zip\_code=om.customers.customer\_zip;

-- Question 5

SELECT

CONCAT(customer\_first\_name,' ',customer\_last\_name) as 'CustomerName',

orders.order\_id,title,

order\_date,order\_qty,unit\_price,order\_qty\* unit\_price as 'Total'

From om.orders

JOIN om.order\_details od on orders.order\_id = od.order\_id

JOIN om.customers c on orders.customer\_id = c. customer\_id

JOIN om.items i on i.item\_id = od.item\_id

ORDER BY 1;