Emerson Drapac

IT 440

DB Phase 4 12 Queries

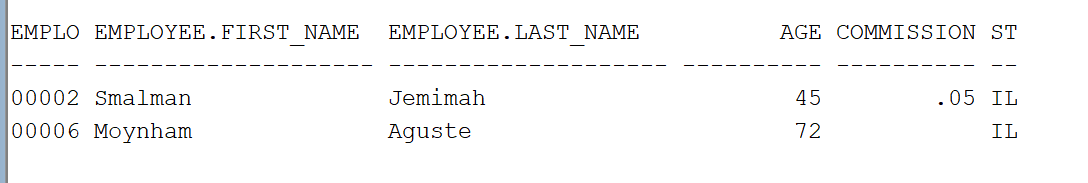
1. List all employees (employee number, first and last names, age,

and commission details) from Illinois.

SELECT e.employee\_id, e.employee.first\_name, e.employee.last\_name,e.employee.age() AGE, e.employee.comission COMMISSION, a.state

FROM O\_employee e, TABLE (address) a

WHERE a.state = 'IL';

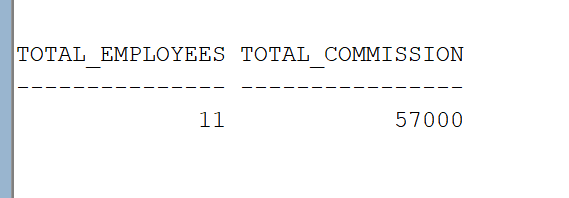


2. Find number of employees and their total

commissions.

SELECT COUNT(e.employee\_id) TOTAL\_EMPLOYEES, SUM(e.employee.commission) TOTAL\_COMMISSION

FROM O\_employee e;



3. List all employees whose commission is greater than the average

commission, and show by how much.

SELECT e.employee\_id EMP\_NO, e.employee.first\_name FNAME,

e.employee.last\_name LNAME,e.employee.commission COMMISSION,

s.AVGS AVG\_COM,

(e.employee.commission - s.AVGS) DIFFERENCE

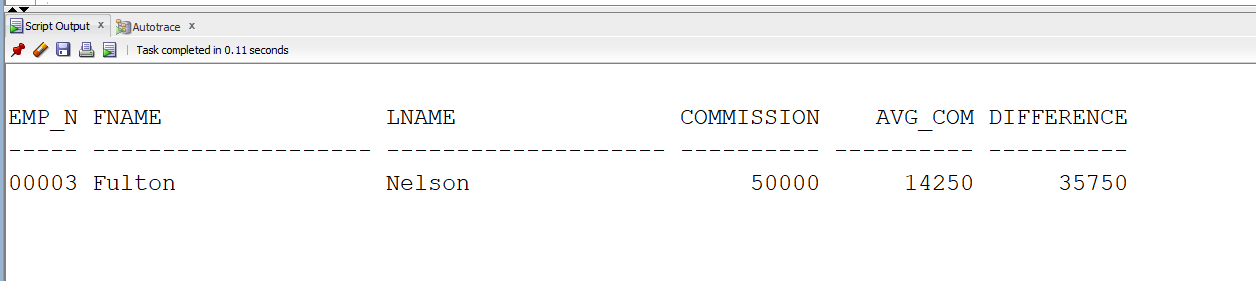
FROM

(select avg(e.employee.commission) AVGS

from o\_employee e) s,

o\_employee e

WHERE e.employee.commission > s.AVGS;



4. Find employees whose commission is larger than commission of

the employee with ID '00002'.

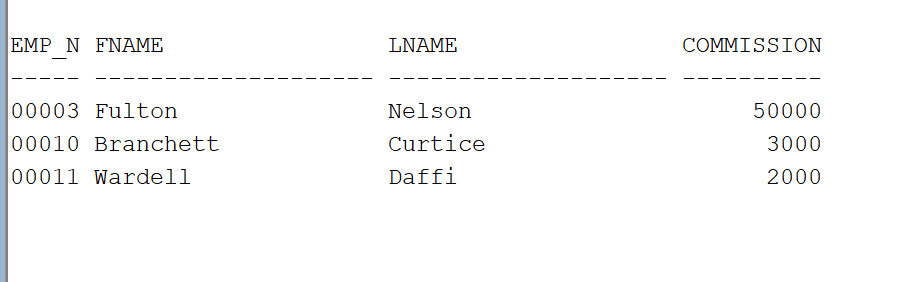
SELECT e.employee\_id EMP\_NO, e.employee.first\_name FNAME,

e.employee.last\_name LNAME,e.employee.commission COMMISSION

FROM o\_employee e

WHERE e.employee\_id NOT LIKE '00002'

AND e.employee.commission IS NOT NULL;



5. List numbers and first names of employee

who deal with the customers and the customers they deal with.

SELECT distinct e.employee\_id , o.customer\_id, e.employee.first\_name FNAME,

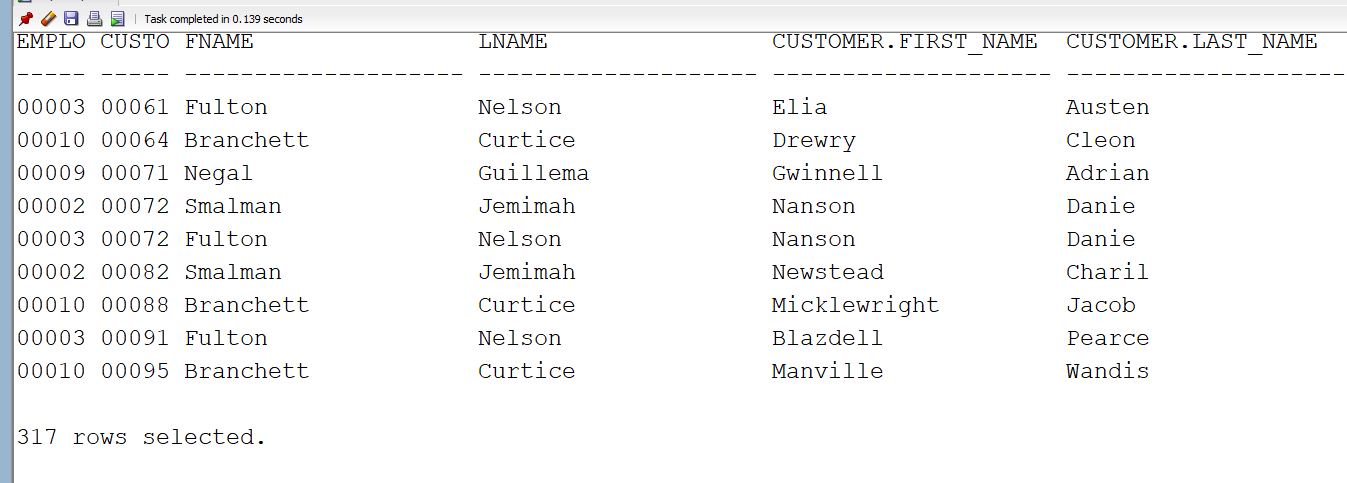
e.employee.last\_name LNAME, c.customer.first\_name,

c.customer.last\_name

FROM o\_employee e

JOIN customer\_order o on o.employee\_id = e.employee\_id

JOIN o\_CUSTOMER c on c.customer\_id = o.customer\_id;



6. Find number of customers handled by each employee member.

SELECT e.employee\_id , count(o.customer\_id) CUST\_COUNT, e.employee.first\_name FNAME,

e.employee.last\_name LNAME

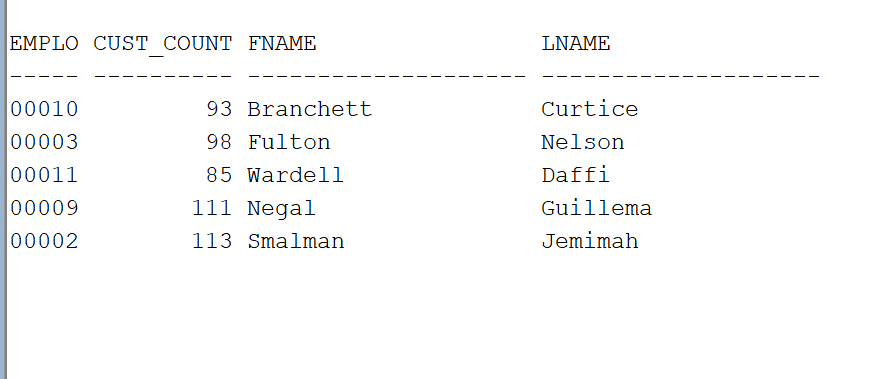
FROM o\_employee e

JOIN customer\_order o on o.employee\_id = e.employee\_id

JOIN o\_CUSTOMER c on c.customer\_id = o.customer\_id

GROUP BY e.employee\_id,e.employee.first\_name,

e.employee.last\_name;



7. List all employees who are either dealing with customers or

not, and also their customer names.

SELECT e.employee\_id , count(o.customer\_id) CUST\_COUNT, e.employee.first\_name FNAME,

e.employee.last\_name LNAME, c.customer.first\_name

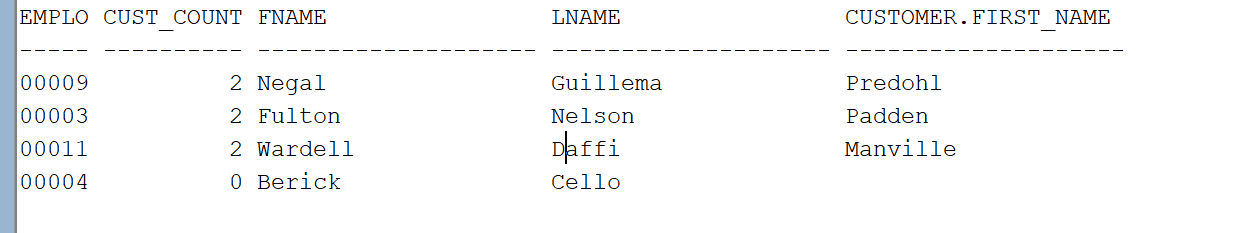
FROM o\_employee e

left JOIN customer\_order o on o.employee\_id = e.employee\_id

left JOIN o\_CUSTOMER c on c.customer\_id = o.customer\_id

GROUP BY e.employee\_id,e.employee.first\_name,

e.employee.last\_name, c.customer.first\_name;



8. List employees have helped customers fulfill orders and which employees don't have orders as well as order count

SELECT e.employee\_id , count(o.customer\_id) ORDER\_COUNT, e.employee.first\_name FNAME,

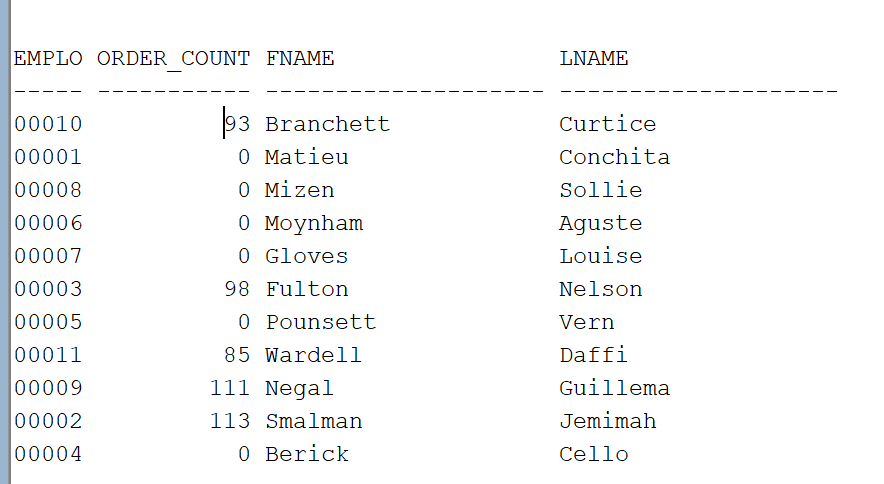
e.employee.last\_name LNAME

FROM o\_employee e

LEFT JOIN customer\_order o on o.employee\_id = e.employee\_id

GROUP BY e.employee\_id,e.employee.first\_name,

e.employee.last\_name;



9. List employees have helped customers fulfill orders and which employees don't have orders as well as order count and the total commission generated by each employee

SELECT e.employee\_id , count(o.customer\_id) ORDER\_COUNT, e.employee.first\_name FNAME,

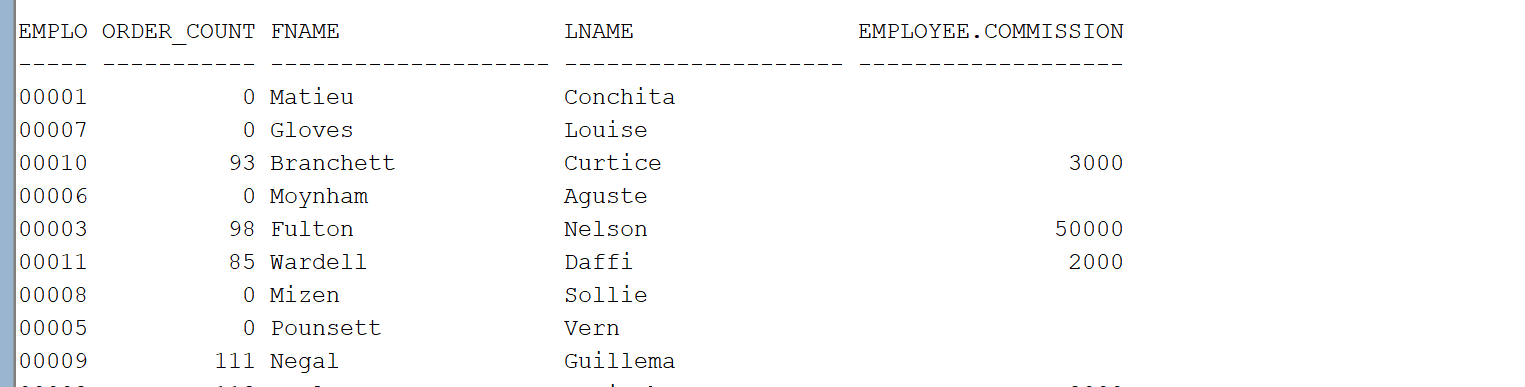
e.employee.last\_name LNAME, e.employee.commission

FROM o\_employee e

LEFT JOIN customer\_order o on o.employee\_id = e.employee\_id

GROUP BY e.employee\_id,e.employee.first\_name,

e.employee.last\_name, e.employee.commission;



10. List all cities where there is either an employee in that city

or there is a customer from that city.

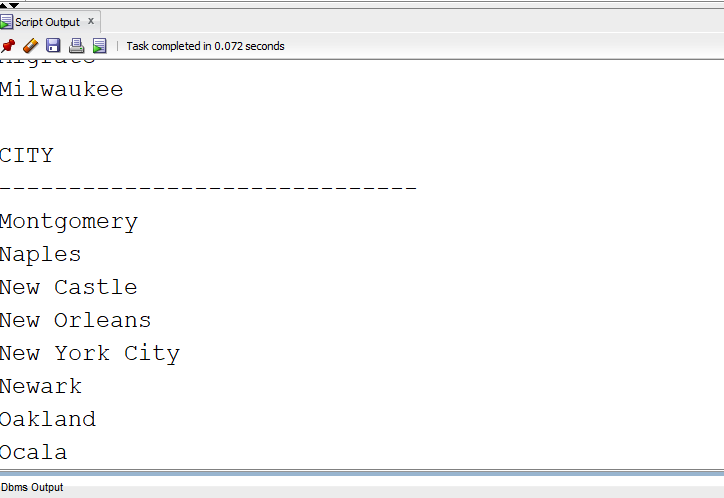
SELECT e.city

from o\_employee e, TABLE(ADDRESS) e

UNION

SELECT c.city

FROM o\_customer c, TABLE(ADDRESS) c;



101 rows selected

11. Show the top three customers according to their total sales.

With qty1 as

(

select count(o.customer\_id) qty, o.customer\_id cust\_id

from customer\_order o

group by o.customer\_id

)

SELECT t.rank, t.customer, t.first\_name, t.total

FROM

(

SELECT RANK() over (order by sum(qty1.qty\*paint.price)desc) as RANK,

c.customer\_id CUSTOMER, c.customer.first\_name first\_name, sum((count(o.customer\_id)\*paint.price)) TOTAL

FROM o\_customer c, customer\_order o, painting\_order p, painting paint, qty1

WHERE c.customer\_id = o.customer\_id

AND qty1.cust\_id = o.customer\_id

AND o.order\_id = p.order\_id

AND p.painting\_id = paint.painting\_id

GROUP BY c.CUSTOMER\_ID, c.customer.first\_name,qty1.qty) t

WHERE t.rank <=3;

12. Show employee Id, employee full name (last, first), city,

state, and their position. Your result should be sorted

according to Sales Manager first, Sales second, Finance third,

and the others as fourth. (Hint: uses the DECODE to order the

result)

select e.employee\_id EMPLOYEE\_NO, e.employee.first\_name FNAME, e.employee.last\_name LNAME,

a.city CITY, a.state ST, e.employee.position POSITION

from o\_employee e, TABLE (address) a

order by Decode(e.employee.position, 'Sales Manager', 1,

'Sales', 2,

'Finance', 3,

4), e.employee\_id;

