Michael Campbell

Oracle: Intro to SQL

HW2

**Practice 3-1**

1. SELECT sysdate “Date” FROM dual;
2. SELECT Employee\_id, last\_name, salary, ROUND(salary \* 0.155) "New Salary"

FROM linda.employees;

1. SELECT Employee\_id, last\_name, salary, ROUND(salary \* 0.155) "New Salary"

FROM linda.employees;

1. SELECT employee\_id, last\_name, salary, ROUND(salary \* 0.155) "New

Salary", salary - ROUND(salary \* 0.155) "Increase"

FROM linda.employees;

1. SELECT INITCAP(last\_name) Name, LENGTH(last\_name) Length

FROM linda.employees

WHERE last\_name LIKE 'J%'

OR last\_name LIKE 'A%'

OR last\_name LIKE 'M%'

ORDER BY last\_name;

SELECT INITCAP(last\_name) Name, LENGTH(last\_name) Length

FROM linda.employees

WHERE last\_name LIKE '&First\_Letter\_of\_Last\_Name%'

ORDER BY last\_name;

SELECT INITCAP(last\_name) Name, LENGTH(last\_name) Length

FROM linda.employees

WHERE last\_name LIKE UPPER('&First\_Letter\_of\_Last\_Name%')

ORDER BY last\_name;

1. SELECT last\_name, ROUND(MONTHS\_BETWEEN(SYSDATE, hire\_date)) MONTHS\_WORKED

FROM linda.employees

ORDER BY MONTHS\_WORKED

**Practice 4-1**

1. SELECT last\_name || ' earns ' || TO\_CHAR(salary, 'fm$99,999.00') || ' monthly but wants ' || TO\_CHAR(salary \* 3, 'fm$99,999.00') || '.' "Dream Salaries"

FROM linda.employees

1. SELECT last\_name, hire\_date, TO\_CHAR(NEXT\_DAY(ADD\_MONTHS(hire\_date , 6), ‘MONDAY’), ‘fmDAY, “the” Ddspth “of” MONTH, YYYY.’) “REVIEW”

FROM linda.employees

1. SELECT last\_name, hire\_date, TO\_CHAR(hire\_date, ‘DAY’) “DAY”

FROM linda.employees

ORDER BY TO\_CHAR(hire\_date -1, ‘d’);

1. SELECT last\_name, NVL (TO\_CHAR(commission\_pct), ‘No Commission’) COMM

FROM linda.employees

1. SELECT job\_id

DECODE (job\_id, ‘Ad\_Pres’, ‘A’,

‘St\_Man’, ‘B’,

‘IT\_Prog’, ‘C’,

‘Sa\_Rep’, ‘D’,

‘St\_Clerk’, ‘E’,

‘0’) GRADE

FROM linda.employees;

1. SELECT job\_id,

CASE job\_id WHEN ‘Ad\_Pres’ THEN ‘A’

WHEN ‘St\_Man’ THEN ‘B’

WHEN ‘IT\_Prog’ THEN ‘C’

WHEN ‘Sa\_Rep’ THEN ‘D’

WHEN ‘St\_Clerk’ THEN ‘E’

ELSE ‘0’ END GRADE

FROM linda.employees;

**Practice 5-1**

1. True
2. False
3. True
4. SELECT ROUND(MAX(salary)) MAXIMUM, ROUND(MIN(salary)) MINIMUM, ROUND(SUM(salary)) SUM, ROUND(AVG(salary)) AVERAGE

FROM linda.employees;

1. SELECT ROUND(MAX(salary)) MAXIMUM, ROUND(MIN(salary)) MINIMUM, ROUND(SUM(salary)) SUM, ROUND(AVG(salary)) AVERAGE

FROM linda.employees;

GROUP BY job\_id;

1. SELECT job\_id, COUNT(\*)

FROM linda.employees

GROUP BY job\_id;

SELECT job\_id, COUNT(\*)

FROM linda.employees

WHERE job\_id = ‘&job\_title’

GROUP BY job\_id;

1. SELECT COUNT(DISCTINCT manager\_id) “Number of Managers”

FROM linda.employees;

1. SELECT MAX(salary) – MIN(salary) DIFFERENCE

FROM linda.employees;

**Practice 6-1**

1. SELECT L.location\_id, L.street\_address, L.city, L.state\_province, C.country\_name

FROM linda.locations L NATURAL JOIN linda.countries C;

1. SELECT last\_name, department)id, department\_name

FROM linda.employees JOIN departments USING (departments\_id);

1. SELECT E.last\_name, E.job\_id, E.department\_id, D.department\_name

FROM linda.employees E JOIN linda.departments D

ON (E.department\_id = D.departments\_id)

JOIN linda.locations L

ON (D.location\_id = L.location\_id)

WHERE L.city = ‘Toronto’;

1. SELECT E.last\_name “Employee”, E.employee\_id “EMP#”, M.last\_name “Manager”, M.employee\_id “Mgr#”

FROM linda.employees E JOIN linda.employees M

ON (E.manager\_id = M.employee\_id);

1. SELECT E.last\_name “Employee”, E.employee\_id “EMP#”, M.last\_name

“Manager”, M.employee\_id “Mgr#”

FROM linda.employees E OUTER JOIN linda.employees M

ON (E.manager\_id = M.employee\_id)

ORDER BY 2;

1. SELECT E.department\_id department, E.last\_name employee, C.last\_name Colleague

FROM linda.employees E JOIN Employees C

ON (E.department\_id = C.department\_id)

WHERE E.employee\_id <> C.Employee\_id

ORDER BY E.department\_id, E.last\_name, C.last\_name;

1. DESC linda.job\_grades
2. SELECT E.last\_name, E.job\_id, D.deparment\_name, E.salary, J.grade\_level

FROM linda.employees E JOIN linda.departments D

ON (E.department\_id = D.department\_id)

JOIN job\_grades J

ON (E.salary BETWEEN J.lowest\_sal AND J.highest\_sal;