L2-ABIODUN OKE 117180166

*STEP 1: rename the file to L2-your id name*

*STEP 2: Put the SQL and the results after each question below*

*STEP 3: Submit on Blackboard.*

1 Display the employee\_id, last name and salary of employees earning in the range of $8000 to $15,000. Sort the output by top salaries first and then by last name.

ANSWER: SELECT employee\_id, last\_name, salary

FROM employees

WHERE salary BETWEEN 8000 AND 15000

ORDER BY salary DESC, last\_name

**OUTPUT:**

**EMPLOYEE\_ID LAST\_NAME SALARY**

**----------- ------------------------- ----------**

**201 Hartstein 13000**

**205 Higgins 12000**

**174 Abel 11000**

**149 Zlotkey 10500**

**103 Hunold 9000**

**176 Taylor 8600**

**206 Gietz 8300**

**7 rows selected**

2 Modify previous query (#1) so that additional condition is to display only if they work as Programmers or Sales Representatives. Use same sorting as before.

**ANSWER:**

**SELECT employee\_id, last\_name, salary, job\_id**

**FROM employees**

**WHERE salary BETWEEN 8000 AND 15000 AND job\_id IN ('IT\_PROG', 'SA\_REP')**

**ORDER BY salary DESC, last\_name;**

**OUTPUT:**

**EMPLOYEE\_ID LAST\_NAME SALARY JOB\_ID**

**----------- ------------------------- ---------- ----------**

**174 Abel 11000 SA\_REP**

**103 Hunold 9000 IT\_PROG**

**176 Taylor 8600 SA\_REP**

3 The Human Resources department wants to find high salary and low salary employees. Modify previous query (#2) so that it displays the same job titles but for people who earn outside the given salary range from question 1. Use same sorting as before.

**ANSWER:**

**SELECT employee\_id, last\_name, salary, job\_id**

**FROM employees**

**WHERE salary NOT BETWEEN 8000 AND 15000 AND job\_id IN ('IT\_PROG', 'SA\_REP')**

**ORDER BY salary DESC, last\_name;**

**OUTPUT:**

**EMPLOYEE\_ID LAST\_NAME SALARY JOB\_ID**

**----------- ------------------------- ---------- ----------**

**178 Grant 7000 SA\_REP**

**104 Ernst 6000 IT\_PROG**

**107 Lorentz 4200 IT\_PROG**

4 The company needs a list of long term employees, in order to give them a thankyou dinner. Display the last name, job\_id and salary of employees hired before 1998. List the most recently hired employees first.

**ANSWER:**

**SELECT last\_name, job\_id, salary, hire\_date**

**FROM employees**

**WHERE hire\_date < '98-01-01'**

**ORDER BY hire\_date desc;**

**OUTPUT:**

**LAST\_NAME JOB\_ID SALARY HIRE\_DATE**

**------------------------- ---------- ---------- ---------**

**Fay MK\_REP 6000 97-08-17**

**Davies ST\_CLERK 3100 97-01-29**

**Abel SA\_REP 11000 96-05-11**

**Hartstein MK\_MAN 13000 96-02-17**

**Rajs ST\_CLERK 3500 95-10-17**

**Gietz AC\_ACCOUNT 8300 94-06-07**

**Higgins AC\_MGR 12000 94-06-07**

**De Haan AD\_VP 17000 93-01-13**

**Ernst IT\_PROG 6000 91-05-21**

**Hunold IT\_PROG 9000 90-01-03**

**Kochhar AD\_VP 17000 89-09-21**

**Whalen AD\_ASST 4400 87-09-17**

**King AD\_PRES 24000 87-06-17**

**13 rows selected**

5 Modify previous query (#4) so that it displays only employees earning more than $10,000. List the output by job title alphabetically and then by highest paid employees.

**ANSWER:**

**SELECT last\_name, job\_id, salary, hire\_date**

**FROM employees**

**WHERE hire\_date < '98-01-01' AND salary > 10000**

**ORDER BY job\_id, salary desc;**

**OUTPUT:**

**LAST\_NAME JOB\_ID SALARY HIRE\_DATE**

**------------------------- ---------- ---------- ---------**

**Higgins AC\_MGR 12000 94-06-07**

**King AD\_PRES 24000 87-06-17**

**Kochhar AD\_VP 17000 89-09-21**

**De Haan AD\_VP 17000 93-01-13**

**Hartstein MK\_MAN 13000 96-02-17**

**Abel SA\_REP 11000 96-05-11**

**6 rows selected**

6 Display the job titles and full names of employees whose first name contains an ‘e’ or ‘E’ anywhere. The output should look like:

Job Title Full name

--------------------------------------

AD\_VP Neena Kochhar

… more rows

**ANSWER**:

**SELECT job\_id "Job Title", first\_name||' '||last\_name "Full name"**

**FROM employees**

**WHERE upper(first\_name) LIKE '%E%';**

**OUTPUT:**

**Job Title Full name**

**---------- ----------------------------------------------**

**AC\_MGR Shelley Higgins**

**AD\_ASST Jennifer Whalen**

**AD\_PRES Steven King**

**AD\_VP Neena Kochhar**

**AD\_VP Lex De Haan**

**IT\_PROG Alexander Hunold**

**IT\_PROG Bruce Ernst**

**MK\_MAN Michael Hartstein**

**SA\_MAN Eleni Zlotkey**

**SA\_REP Ellen Abel**

**SA\_REP Kimberely Grant**

**ST\_CLERK Trenna Rajs**

**ST\_CLERK Peter Vargas**

**ST\_MAN Kevin Mourgos**

**14 rows selected**

7 Create a report to display last name, salary, and commission percentage for all employees that earn a commission.

**ANSWER:**

**SELECT last\_name, salary, commission\_pct**

**FROM employees**

**WHERE commission\_pct IS NOT NULL;**

**OUTPUT:**

**LAST\_NAME SALARY COMMISSION\_PCT**

**------------------------- ---------- --------------**

**Zlotkey 10500 .2**

**Abel 11000 .3**

**Taylor 8600 .2**

**Grant 7000 .15**

8 Do the same as question 7, but put the report in order of descending salaries.

**ANSWER:**

**SELECT last\_name, salary, commission\_pct**

**FROM employees**

**WHERE commission\_pct IS NOT NULL**

**ORDER BY salary desc;**

**OUTPUT:**

**LAST\_NAME SALARY COMMISSION\_PCT**

**------------------------- ---------- --------------**

**Abel 11000 .3**

**Zlotkey 10500 .2**

**Taylor 8600 .2**

**Grant 7000 .15**

9 Do the same as 8, but use a numeric value instead of a column name to do the sorting.

**ANSWER:**

**SELECT last\_name, salary, commission\_pct**

**FROM employees**

**WHERE commission\_pct IS NOT NULL**

**ORDER BY 2 desc;**

**OUTPUT:**

**LAST\_NAME SALARY COMMISSION\_PCT**

**------------------------- ---------- --------------**

**Abel 11000 .3**

**Zlotkey 10500 .2**

**Taylor 8600 .2**

**Grant 7000 .15**