L2-w2-DBS301-select-range-order

Due Friday midnight of week 2

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

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

*STEP 3: Email this back before the deadline*

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.

SELECT EMPLOYEE\_ID, LAST\_NAME, SALARY

FROM EMPLOYEES

WHERE SALARY BETWEEN 8000 AND 15000

ORDER BY SALARY DESC,

LAST\_NAME;

EMPLOYEE\_ID LAST\_NAME SALARY

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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.

SELECT EMPLOYEE\_ID, LAST\_NAME, SALARY

FROM EMPLOYEES

WHERE SALARY BETWEEN 8000 AND 15000

AND (JOB\_ID='IT\_PROG' OR JOB\_ID='SA\_REP')

ORDER BY SALARY DESC,

LAST\_NAME;

EMPLOYEE\_ID LAST\_NAME SALARY

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174 Abel 11000

103 Hunold 9000

176 Taylor 8600

3 rows selected

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.

SELECT EMPLOYEE\_ID, LAST\_NAME, SALARY

FROM EMPLOYEES

WHERE (JOB\_ID='IT\_PROG' OR JOB\_ID='SA\_REP')

AND SALARY NOT BETWEEN 8000 AND 15000

ORDER BY SALARY DESC,

LAST\_NAME;

EMPLOYEE\_ID LAST\_NAME SALARY

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178 Grant 7000

104 Ernst 6000

107 Lorentz 4200

3 rows selected

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

SELECT LAST\_NAME, JOB\_ID, SALARY

FROM EMPLOYEES

WHERE HIRE\_DATE < '98-01-01'

ORDER BY HIRE\_DATE DESC;

LAST\_NAME JOB\_ID SALARY

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Fay MK\_REP 6000

Davies ST\_CLERK 3100

Abel SA\_REP 11000

Hartstein MK\_MAN 13000

Rajs ST\_CLERK 3500

Gietz AC\_ACCOUNT 8300

Higgins AC\_MGR 12000

De Haan AD\_VP 17000

Ernst IT\_PROG 6000

Hunold IT\_PROG 9000

Kochhar AD\_VP 17000

Whalen AD\_ASST 4400

King AD\_PRES 24000

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.

SELECT LAST\_NAME, JOB\_ID, SALARY

FROM EMPLOYEES

WHERE HIRE\_DATE < '98-01-01'

AND SALARY > 10000

ORDER BY JOB\_ID,

SALARY DESC;

LAST\_NAME JOB\_ID SALARY

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Higgins AC\_MGR 12000

King AD\_PRES 24000

Kochhar AD\_VP 17000

De Haan AD\_VP 17000

Hartstein MK\_MAN 13000

Abel SA\_REP 11000

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

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AD\_VP Neena Kochhar

… more rows

SELECT JOB\_ID AS "Job Title", FIRST\_NAME || ' ' || LAST\_NAME AS "Full name"

FROM EMPLOYEES

WHERE LOWER(FIRST\_NAME) LIKE '%e%';

Job Title Full name

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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 percent for all employees that earn a commission.

SELECT LAST\_NAME AS "last name", SALARY AS "salary", COMMISSION\_PCT AS "commission percent"

FROM EMPLOYEES

WHERE COMMISSION\_PCT > 0;

(WHERE COMMISSION\_PCT IS NOT NULL;)

last name salary commission percent

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Zlotkey 10500 0.2

Abel 11000 0.3

Taylor 8600 0.2

Grant 7000 0.15

4 rows selected

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

SELECT LAST\_NAME AS "last name", SALARY AS "salary", COMMISSION\_PCT AS "commission percent"

FROM EMPLOYEES

WHERE COMMISSION\_PCT > 0

ORDER BY SALARY DESC;

last name salary commission percent

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Abel 11000 0.3

Zlotkey 10500 0.2

Taylor 8600 0.2

Grant 7000 0.15

4 rows selected

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

SELECT LAST\_NAME AS "last name", SALARY AS "salary", COMMISSION\_PCT AS "commission percent"

FROM EMPLOYEES

WHERE COMMISSION\_PCT > 0

ORDER BY 3 DESC;

last name salary commission percent

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Abel 11000 0.3

Taylor 8600 0.2

Zlotkey 10500 0.2

Grant 7000 0.15

4 rows selected