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Lab on Subqueries and Set operators

Copy the query and screen shot of the result beneath each question in this document. Submit on Blackboard.

Solve the following:

1. Create a report that displays the employee number, last name, and salary of all employees who earn more than the average salary. Sort the results in order of ascending salary.

ANSWER:

SELECT EMPLOYEE\_ID, LAST\_NAME, SALARY

FROM EMPLOYEES

WHERE SALARY >

(SELECT AVG(SALARY)

FROM EMPLOYEES)

ORDER BY 3 ASC;

OUTPUT:

EMPLOYEE\_ID LAST\_NAME SALARY

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103 Hunold 9000

149 Zlotkey 10500

174 Abel 11000

205 Higgins 12000

201 Hartstein 13000

101 Kochhar 17000

102 De Haan 17000

100 King 24000

1. Write a query that displays the employee number and last name of all employees who work in a department with any employee whose last name contains a “u.”

ANSWER:

SELECT EMPLOYEE\_ID, LAST\_NAME

FROM EMPLOYEES

WHERE DEPARTMENT\_ID IN

(SELECT DEPARTMENT\_ID

FROM EMPLOYEES

WHERE LAST\_NAME LIKE '%u%');

OUTPUT:

EMPLOYEE\_ID LAST\_NAME

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124 Mourgos

141 Rajs

142 Davies

143 Matos

144 Vargas

103 Hunold

104 Ernst

107 Lorentz

1. The HR department needs a report that displays the last name, department number, and job ID of all employees whose department location ID is 1700.

ANSWER:

SELECT LAST\_NAME, DEPARTMENT\_ID, JOB\_ID

FROM EMPLOYEES

WHERE DEPARTMENT\_ID IN

(SELECT DEPARTMENT\_ID

FROM DEPARTMENTS

WHERE LOCATION\_ID = '1700');

OUTPUT:

LAST\_NAME DEPARTMENT\_ID JOB\_ID

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Whalen 10 AD\_ASST

King 90 AD\_PRES

Kochhar 90 AD\_VP

De Haan 90 AD\_VP

Higgins 110 AC\_MGR

Gietz 110 AC\_ACCOUNT

1. Create a report for HR that displays the last name and salary of every employee who reports to King.

ANSWER:

SELECT LAST\_NAME, SALARY

FROM EMPLOYEES

WHERE MANAGER\_ID IN

(SELECT EMPLOYEE\_ID

FROM EMPLOYEES

WHERE LAST\_NAME = 'King');

OUTPUT:

LAST\_NAME SALARY

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Kochhar 17000

De Haan 17000

Mourgos 5800

Zlotkey 10500

Hartstein 13000

1. Create a report that displays the department number, last name, and job ID for every employee in the Executive department.

ANSWER:

SELECT DEPARTMENT\_ID, LAST\_NAME, JOB\_ID

FROM EMPLOYEES

WHERE DEPARTMENT\_ID IN

(SELECT DEPARTMENT\_ID

FROM DEPARTMENTS

WHERE DEPARTMENT\_NAME = 'Executive');

OUTPUT:

DEPARTMENT\_ID LAST\_NAME JOB\_ID

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90 King AD\_PRES

90 Kochhar AD\_VP

90 De Haan AD\_VP

1. The HR department needs a list of department IDs for departments that do not contain the job ID ST\_CLERK. Use the set operators to create this report.

ANSWER:

SELECT DEPARTMENT\_ID

FROM DEPARTMENTS

MINUS

SELECT DEPARTMENT\_ID

FROM EMPLOYEES

WHERE JOB\_ID = 'ST\_CLERK';

OUTPUT:

DEPARTMENT\_ID

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10

20

60

80

90

110

190

1. Create a report that lists the employee IDs and job IDs of those employees who currently have a job title that is the same as their job title when they were initially hired by the company (that is, they changed jobs but have now gone back to doing their original job).

ANSWER:

SELECT EMPLOYEE\_ID, JOB\_ID

FROM EMPLOYEES

INTERSECT

SELECT EMPLOYEE\_ID, JOB\_ID

FROM JOB\_HISTORY;

OUTPUT:

EMPLOYEE\_ID JOB\_ID

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176 SA\_REP

200 AD\_ASST