Lab:6

Q1:

The HR department wants to determine the names of all the employees who were hired after Davies. Create a query to display the name and hire date of any employee hired after employee Davies.

Solution:

Q2:

The HR department needs to find the names and hire dates of all the employees who were hired before their managers, along with their managers' names and hire dates.

```
SQL Plus
   QL> Select x.last_name,x.hire_date,
2 y.last_name,y.hire_date
3 FROM
4 employees x JOIN employees y
5 ON
6 y.employee_id=x.manager_id
7 AND
8 y.hire_date > x.hire_date;
                                                                                              HIRE_DATE LAST_NAME
                                                                                                                                                                                                                                            HIRE_DATE
                              9 01-MAY-03 King

97-DEC-02 King

13-JAN-01 King

07-JUN-02 Kochhar

07-JUN-02 Kochhar

07-JUN-02 Kochhar

17-SEP-03 Kochhar

17-AUG-02 Kochhar

25-JUN-05 Hunold

16-AUG-02 Greenberg

20-FEB-05 Fripp
                                                                                                                                                                                                                                            17-JUN-03
17-JUN-03
17-JUN-03
21-SEP-05
21-SEP-05
21-SEP-05
21-SEP-05
03-JAN-06
17-AUG-02
10-APR-05
    aufling
aphaely
   aer
lavris
                                                                                                                                                                                                                                             HIRE_DATE
                                                                                               27-JAN-04 Fripp
16-FEB-05 Fripp
03-MAR-05 Vollman
04-FEB-04 Vollman
14-JUL-03 Vollman
21-JUN-07 Mourgos
23-MAY-06 Mourgos
09-JUL-06 Mourgos
09-JUL-06 Mourgos
29-JAN-05 Mourgos
                                                                                                                                                                                                                                             10-APR-05
                                                                                                                                                                                                                                            10-APR-05
10-APR-05
10-OCT-05
10-OCT-05
16-NOV-07
16-NOV-07
16-NOV-07
16-NOV-07
16-NOV-07
16-NOV-07
  /argas
·latos
    AST_NAME
                                                                                                  HIRE_DATE LAST_NAME
                                                                                                                                                                                                                                             HIRE_DATE
                                                                                                 17-OCT-03 Mourgos
01-AUG-04 Partners
04-MAR-04 Partners
30-JAN-04 Partners
24-MAR-07 Cambrault
23-FEB-07 Cambrault
                                                                                                                                                                                                                                              05-JAN-05
05-JAN-05
05-JAN-05
```

Q3:

The HR department needs a report of all employees. Write a query to display the last name, department number, and department name for all the employees.

```
Use SELECT
List.name.x.department_id,
3 y.department,name
4 FROM
5 employes x 301M departments y
6 ON
7 x.department_id - y.department_id;
AST.NAME DEPARTMENT_ID DEPARTMENT_MAME
halen
10 Administration
10 Admin
```

Q4:

The HR department needs a report of employees in Toronto. Display the last name, job, department number, and the department name for all employees who work in Toronto

```
SQL Plus
SQL> Select
 2 x.last_name, x.job_id,
3 y.department_id, y.department_name
4 FROM
 5 employees x JOIN departments y
 6 ON (x.department_id = y.department_id)
 7 JOIN locations k
8 ON (y.location_id = k.location_id)
 9 WHERE
 10 lower(k.city) = 'toronto';
LAST_NAME
                             JOB_ID
                                         DEPARTMENT_ID
DEPARTMENT_NAME
Hartstein
                            MK_MAN
                                                      20
Marketing
Fay
Marketing
                            MK_REP
                                                      20
SQL>
```

Q5:

Create a report to display employees' last name and employee number along with their manager's last name and manager number. Label the columns Employee, Emp#, Manager, and Mgr#, respectively

```
x.last_name Employee,
x.employee_id EMP#,
y.last_name Manager,
y.employee_id Mgr#
FROM
    employees x JOIN employees y
ON
    x.manager_id=y.employee_id;
EMPLOYEE
MGR#
                                        EMP# MANAGER
                                         201 King
                                         149 King
                                         148 King
                                          147 King
                                          146 King
                                          145 King
                                          124 King
                                          123 King
                                          121 King
                                          120 King
MPLOYEE
MGR#
                                        EMP# MANAGER
                                         114 King
                                         102 King
                                          101 King
```

Q6:

Create a report for the HR department that displays employee last names, department numbers, and all the employees who work in the same department as a given employee. Give each column an appropriate label.

```
SQL Plus
SQL> SELECT
 2 x.last name EMP Name,
 3 x.department id emp department,
 4 y.last_name Colleague
 5 FROM
 6 employees x JOIN employees y
 7 ON
    (x.department_id=y.department_id)
 8
 9
    WHERE
 10 x.employee_id <> y.employee_id
11 AND x.last_name='King';
EMP NAME
                           EMP DEPARTMENT COLLEAGUE
King
                                       90 Kochhar
King
                                       90 De Haan
King
                                       80 Russell
King
                                       80 Partners
King
                                       80 Errazuriz
King
                                       80 Cambrault
King
                                       80 Zlotkey
King
                                       80 Tucker
King
                                       80 Bernstein
King
                                       80 Hall
King
                                       80 Olsen
EMP NAME
                         EMP DEPARTMENT COLLEAGUE
King
                                       80 Cambrault
King
                                       80 Tuvault
King
                                       80 Sully
King
                                       80 McEwen
King
                                       80 Smith
King
                                       80 Doran
King
                                       80 Sewall
King
                                       80 Vishney
King
                                       80 Greene
                                       80 Marvins
King
King
                                       80 Lee
EMP_NAME
                          EMP DEPARTMENT COLLEAGUE
King
                                       80 Ande
King
                                       80 Banda
King
                                       80 Ozer
King
                                       80 Bloom
```

Q7:

The HR department needs a report on job grades and salaries. To familiarize yourself with the JOB_GRADES table, first show the structure of the JOB_GRADES table. Then create a query that displays the name, job, department name, salary, and grade for all employees

```
SQL Plus
SQL> SELECT
     x.last_name,x.job_id,x.salary,
    y.department_name,
    z.grade
FROM
    employees x,
    departments y,
    salgrade z
    WHERE
10
   x.department_id=y.department_id
11 AND
12
    x.salary BETWEEN z.losal
13 AND
14 z.hisal;
AST_NAME
                          JOB_ID
                                         SALARY DEPARTMENT_NAME
    GRADE
                          SA_REP
                                           9600 Sales
ox
                                            9500 Sales
Bernstein
                          SA_REP
ireene
                          SA_REP
                                            9500 Sales
AST_NAME
                                         SALARY DEPARTMENT_NAME
                          JOB_ID
    GRADE
Sully
                                            9500 Sales
                          SA_REP
                                            9000 Sales
                          SA_REP
McEwen
                          FI_ACCOUNT
                                            9000 Finance
aviet
AST NAME
                          JOB_ID
                                         SALARY DEPARTMENT_NAME
```

Q8:

The HR department needs a query that prompts the user for an employee last name. The query then displays the last name and hire date of any employee in the same department as the employee whose name they supply (excluding that employee). For example, if the user enters Zlotkey, find all employees who work with Zlotkey (excluding Zlotkey).

```
SQL Plus
SQL> SELECT
2 last_name , hire_date
3 FROM
 4 employ
5 WHERE
     employees
  6 department_id=(SELECT department_id
  8 employees
  9 WHERE
 10 last_name = 'Zlotkey')
11 AND last_name <> 'Zlotkey';
LAST_NAME
                            HIRE_DATE
Russell
                            01-0CT-04
Partners
                             05-JAN-05
Errazuriz
Cambrault
                            10-MAR-05
                            15-0CT-07
Tucker
                            30-JAN-05
                            24-MAR-05
Bernstein
Hall
Olsen
                            20-AUG-05
                            30-MAR-06
Cambrault
                            09-DEC-06
Tuvault
                            23-NOV-07
King
                             30-JAN-04
LAST_NAME
                             HIRE_DATE
Sully
                             04-MAR-04
McEwen
                             01-AUG-04
Smith
                            10-MAR-05
                            15-DEC-05
Doran
Sewall
                            03-NOV-06
Vishney
                            11-NOV-05
Greene
                            19-MAR-07
Marvins
                            24-JAN-08
Lee
                            23-FEB-08
Ande
                             24-MAR-08
Banda
                             21-APR-08
LAST_NAME
                             HIRE_DATE
                             11-MAR-05
0zer
Bloom
                             23-MAR-06
                             24-JAN-06
```

Q9:

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 the letter "u".

```
### SQL Plus

##
```

Q10:

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.

```
SQL Plus
SQL> SELECT
 2 last_name,department_id,job_id
 3 FROM
 4 employees
 5 WHERE
 6 department_id IN
 8 SELECT
 9 department_id
10 FROM
11 departments
12 WHERE
13 location_id = 1700
14 );
LAST_NAME DEPARTMENT_ID JOB_ID
Whalen
                                   10 AD_ASST
                                   30 PU MAN
Raphaely
Khoo
                                    30 PU CLERK
Baida
                                    30 PU CLERK
Tobias
                                    30 PU CLERK
                                    30 PU_CLERK
Himuro
Colmenares
                                    30 PU CLERK
King
                                    90 AD PRES
Kochhar
                                    90 AD VP
De Haan
                                    90 AD_VP
                                   100 FI MGR
Greenberg
LAST_NAME
                        DEPARTMENT_ID JOB_ID
Faviet
                                   100 FI ACCOUNT
Chen
                                   100 FI_ACCOUNT
100 FI_ACCOUNT
Sciarra
Urman
                                   100 FI_ACCOUNT
                                   100 FI ACCOUNT
Popp
Higgins
                                   110 AC MGR
Gietz
                                   110 AC_ACCOUNT
18 rows selected.
SQL>
```