## Practice 2

The HR department needs your assistance with creating some queries.

1. Because of budget issues, the HR department needs a report that displays the last name and salary of employees who earn more than $12,000. Place your SQL statement in a text file named `lab_02_01.sql`. Run your query.

| LAST_NAME | SALARY |
|---|---|
| King | 24000 |
| Kochhar | 17000 |
| De Haan | 17000 |
| Hartstein | 13000 |

2. Create a report that displays the last name and department number for employee number 176.

| LAST_NAME | DEPARTMENT_ID |
|---|---|
| Taylor | 80 |

3. The HR department needs to find high-salary and low-salary employees. Modify `lab_02_01.sql` to display the last name and salary for any employee whose salary is not in the range of $5,000 to $12,000. Place your SQL statement in a text file named `lab_02_03.sql`.

| LAST_NAME | SALARY |
|---|---|
| King | 24000 |
| Kochhar | 17000 |
| De Haan | 17000 |
| Lorentz | 4200 |
| Rajs | 3500 |
| Davies | 3100 |
| Matos | 2600 |
| Vargas | 2500 |
| Whalen | 4400 |
| Hartstein | 13000 |

10 rows selected.

**Practice 2 (continued)**

4. Create a report to display the last name, job ID, and start date for the employees with the last names of Matos and Taylor. Order the query in ascending order by start date.

| LAST_NAME | JOB_ID | HIRE_DATE |
|---|---|---|
| Matos | ST_CLERK | 15-MAR-98 |
| Taylor | SA_REP | 24-MAR-98 |

5. Display the last name and department number of all employees in departments 20 or 50 in ascending alphabetical order by name.

| LAST_NAME | DEPARTMENT_ID |
|---|---|
| Davies | 50 |
| Fay | 20 |
| Hartstein | 20 |
| Matos | 50 |
| Mourgos | 50 |
| Rajs | 50 |
| Vargas | 50 |

7 rows selected.

6. Modify `lab_02_03.sql` to display the last name and salary of employees who earn between $5,000 and $12,000 and are in department 20 or 50. Label the columns `Employee` and `Monthly Salary`, respectively. Resave `lab_02_03.sql` as `lab_02_06.sql`. Run the statement in `lab_02_06.sql`.

| Employee | Monthly Salary |
|---|---|
| Fay | 6000 |
| Mourgos | 5800 |

## Practice 2 (continued)

7. The HR department needs a report that displays the last name and hire date for all employees who were hired in 1994.

| LAST_NAME | HIRE_DATE |
|---|---|
| Higgins | 07-JUN-94 |
| Gietz | 07-JUN-94 |

8. Create a report to display the last name and job title of all employees who do not have a manager.

| LAST_NAME | JOB_ID |
|---|---|
| King | AD_PRES |

9. Create a report to display the last name, salary, and commission of all employees who earn commissions. Sort data in descending order of salary and commissions.

| LAST_NAME | SALARY | COMMISSION_PCT |
|---|---|---|
| Abel | 11000 | .3 |
| Zlotkey | 10500 | .2 |
| Taylor | 8600 | .2 |
| Grant | 7000 | .15 |

10. Members of the HR department want to have more flexibility with the queries that you are writing. They would like a report that displays the last name and salary of employees who earn more than an amount that the user specifies after a prompt. (You can use the query that you created in practice exercise 1 and modify it.) Save this query to a file named `lab_02_10.sql`. If you enter `12000` when prompted, the report displays the following results:

| LAST_NAME | SALARY |
|---|---|
| King | 24000 |
| Kochhar | 17000 |
| De Haan | 17000 |
| Hartstein | 13000 |

## Practice 2 (continued)

11. The HR department wants to run reports based on a manager. Create a query that prompts the user for a manager ID and generates the employee ID, last name, salary, and department for that manager's employees. The HR department wants the ability to sort the report on a selected column. You can test the data with the following values:

    manager ID = 103, sorted by employee last name:

| EMPLOYEE_ID | LAST_NAME | SALARY | DEPARTMENT_ID |
|---|---|---|---|
| 104 | Ernst | 6000 | 60 |
| 107 | Lorentz | 4200 | 60 |

    manager ID = 201, sorted by salary:

| EMPLOYEE_ID | LAST_NAME | SALARY | DEPARTMENT_ID |
|---|---|---|---|
| 202 | Fay | 6000 | 20 |

    manager ID = 124, sorted by employee ID:

| EMPLOYEE_ID | LAST_NAME | SALARY | DEPARTMENT_ID |
|---|---|---|---|
| 141 | Rajs | 3500 | 50 |
| 142 | Davies | 3100 | 50 |
| 143 | Matos | 2600 | 50 |
| 144 | Vargas | 2500 | 50 |

## Practice 2 (continued)

If you have time, complete the following exercises:

12. Display all employee last names in which the third letter of the name is *a*.

| LAST_NAME |
|---|
| Grant |
| Whalen |

13. Display the last names of all employees who have both an *a* and an *e* in their last name.

| LAST_NAME |
|---|
| Davies |
| De Haan |
| Hartstein |
| Whalen |

If you want an extra challenge, complete the following exercises:

14. Display the last name, job, and salary for all employees whose jobs are either sales representative or stock clerk and whose salaries are not equal to $2,500, $3,500, or $7,000.

| LAST_NAME | JOB_ID | SALARY |
|---|---|---|
| Abel | SA_REP | 11000 |
| Taylor | SA_REP | 8600 |
| Davies | ST_CLERK | 3100 |
| Matos | ST_CLERK | 2600 |

15. Modify `lab_02_06.sql` to display the last name, salary, and commission for all employees whose commission amount is 20%. Resave `lab_02_06.sql` as `lab_02_15.sql`. Rerun the statement in `lab_02_15.sql`.

| Employee | Monthly Salary | COMMISSION_PCT |
|---|---|---|
| Zlotkey | 10500 | .2 |
| Taylor | 8600 | .2 |