



LAB TASK

(MANUAL 3)

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CSE311L.10

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Part 1:

Activity 01:

Display the employee last name, job ID, and start date of employees hired between February 20, 1998, and May 1, 1998. Order the query in ascending order by start date.

CODE: `SELECT last_name, job_id, hire_date FROM employees WHERE hire_date BETWEEN "1998-02-20" AND "1998-05-01" order by hire_date ASC;`

The screenshot shows the SQL Developer interface. On the left, the 'hr' schema is expanded, showing tables like departments, employees, and jobs. The main window displays a query in the 'employees' table. The query is: `SELECT last_name, job_id, hire_date FROM employees WHERE hire_date BETWEEN "1998-02-20" AND "1998-05-01" order by hire_date ASC;` The result grid below the query is empty, indicating no results were returned.

(There was no employee who was hired between these dates.)

Activity 02:

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

CODE: `SELECT last_name, department_id FROM employees WHERE Department_id IN (20, 50) ORDER BY Last_Name ASC;`

The screenshot shows the SQL Developer interface. On the left, the 'hr' schema is expanded, showing tables like departments, employees, and jobs. The main window displays a query in the 'employees' table. The query is: `SELECT last_name, department_id FROM employees WHERE Department_id IN (20, 50) ORDER BY Last_Name ASC;` The result grid below the query shows 7 rows of data:

last_name	department_id
Davies	50
Fay	20
Hartstein	20
Matos	50
Mourgos	50
Rajs	50
Vargas	50

Part 2:

Activity 01:

Display the last name and hire date of every employee who was hired in 1994.

CODE: `SELECT last_name, hire_date FROM employees WHERE Hire_Date LIKE "1994%";`

The screenshot shows the SQL Developer interface with a query window titled 'Query 1' containing the following SQL code:

```
1 SELECT last_name, job_id, hire_date FROM employees WHERE hire_date BETWEEN "1998-02-20" AND "1998-05-01" order by hire_date ASC;
2 SELECT last_name, department_id FROM employees WHERE Department_id IN (20, 50) ORDER BY Last_Name ASC;
3 SELECT last_name, hire_date FROM employees WHERE Hire_Date LIKE "1994%";
```

The 'Result Grid' tab is active, showing the column headers 'last_name' and 'hire_date'. No data rows are visible, indicating that no employees were found with a hire date in 1994.

(There was no employee in the database who was hired in 1994)

Activity 02:

Display the last name, salary, and commission for all employees who earn commissions. Sort data in descending order of salary and commissions. Title.

CODE: `SELECT Last_Name, Salary, Commission_pct FROM employees WHERE Commission_pct is not null order by Salary DESC, Commission_pct DESC;`

The screenshot shows the SQL Developer interface with a query window titled 'Query 1' containing the following SQL code:

```
1 SELECT last_name, job_id, hire_date FROM employees WHERE hire_date BETWEEN "1998-02-20" AND "1998-05-01" order by hire_date ASC;
2 SELECT last_name, department_id FROM employees WHERE Department_id IN (20, 50) ORDER BY Last_Name ASC;
3 SELECT last_name, hire_date FROM employees WHERE Hire_Date LIKE "1994%";
4 SELECT Last_Name, Salary, Commission_pct FROM employees WHERE Commission_pct is not null order by Salary DESC, Commission_pct DESC;
```

The 'Result Grid' tab is active, showing the column headers 'Last_Name', 'Salary', and 'Commission_pct'. The data is sorted by salary in descending order.

Last_Name	Salary	Commission_pct
Abel	11000.00	0.30
Zlotkey	10500.00	0.20
Taylor	8600.00	0.20
Grant	7000.00	0.15

Activity 03:

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

CODE: `SELECT Last_Name FROM employees WHERE Last_Name LIKE "%a%" AND Last_Name LIKE "%e%";`

The screenshot shows a SQL query editor window titled "Query 1" with a tab for "employees". The query text is as follows:

```
1 SELECT last_name, job_id, hire_date FROM employees WHERE hire_date BETWEEN "1998-02-20" AND "1998-05-01" order by hire_date ASC;
2 • SELECT last_name, department_id FROM employees WHERE Department_id IN (20, 50) ORDER BY Last_Name ASC;
3 • SELECT last_name, hire_date FROM employees WHERE Hire_Date LIKE "1994%";
4 • SELECT Last_Name, Salary, Commission_pct FROM employees WHERE Commission_pct is not null order by Salary DESC, Commission_pct DESC;
5 • SELECT Last_Name FROM employees WHERE Last_Name LIKE "%a%" AND Last_Name LIKE "%e%";
```

Below the query editor, the "Result Grid" is displayed. It includes a "Filter Rows:" input field, an "Export:" button, and a "Wrap Cell Content:" checkbox. The results table has a single column "Last_Name" and lists the following names:

Last_Name
De Haan
Davies
Abel
Whalem
Hartstein