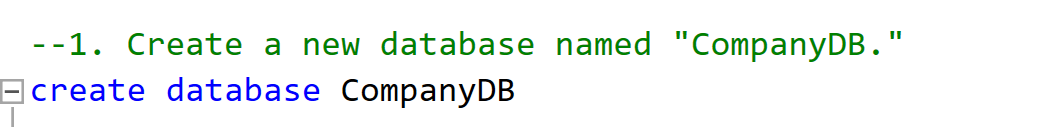
**Solve Task:**

1. Create a new database named "CompanyDB."



1. Create a schema named "Sales" within the "CompanyDB" database.

A close-up of a sign

Description automatically generated

1. Create a table named "employees" with columns: employee\_id (INT), first\_name (VARCHAR), last\_name (VARCHAR), and salary (DECIMAL) within the "Sales" schema.

Note: on employee\_id use sequence instead of identity.

A screenshot of a computer code

Description automatically generated

1. Alter the "employees" table to add a new column named "hire\_date" with the data type DATE.

A close-up of a computer screen

Description automatically generated

1. Add mock data to this table using <https://www.mockaroo.com>

**DATA MANIPULATION Exercises:**

1. Select all columns from the "employees" table.

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1. Retrieve only the "first\_name" and "last\_name" columns from the "employees" table.

A screenshot of a computer

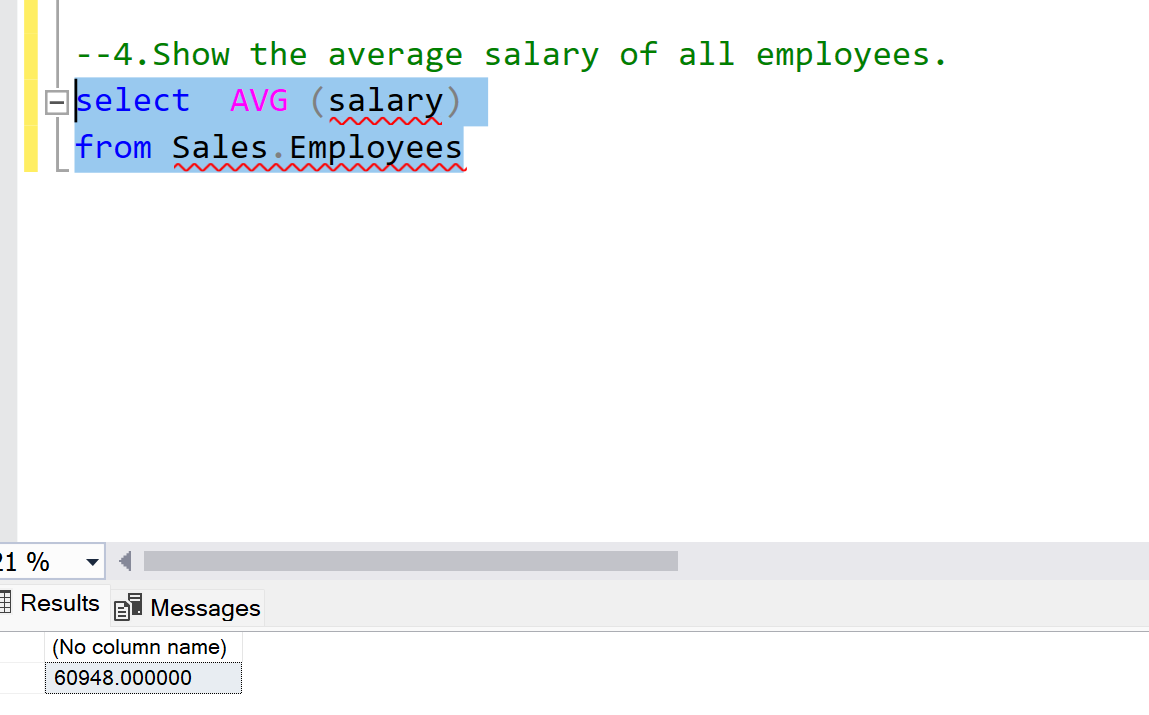
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1. Retrieve “full name” as one column from the "first\_name" and "last\_name" columns from the "employees" table.

A screenshot of a computer

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1. Show the average salary of all employees.



1. Select employees whose salary is greater than 50000.

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1. Retrieve employees hired in the year 2020.

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1. List employees whose last names start with 'S.'

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1. Display the top 10 highest-paid employees.

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1. Find employees with salaries between 40000 and 60000.

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1. Show employees with names containing the substring 'man.'

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1. Display employees with a NULL value in the "hire\_date" column.

A screenshot of a computer

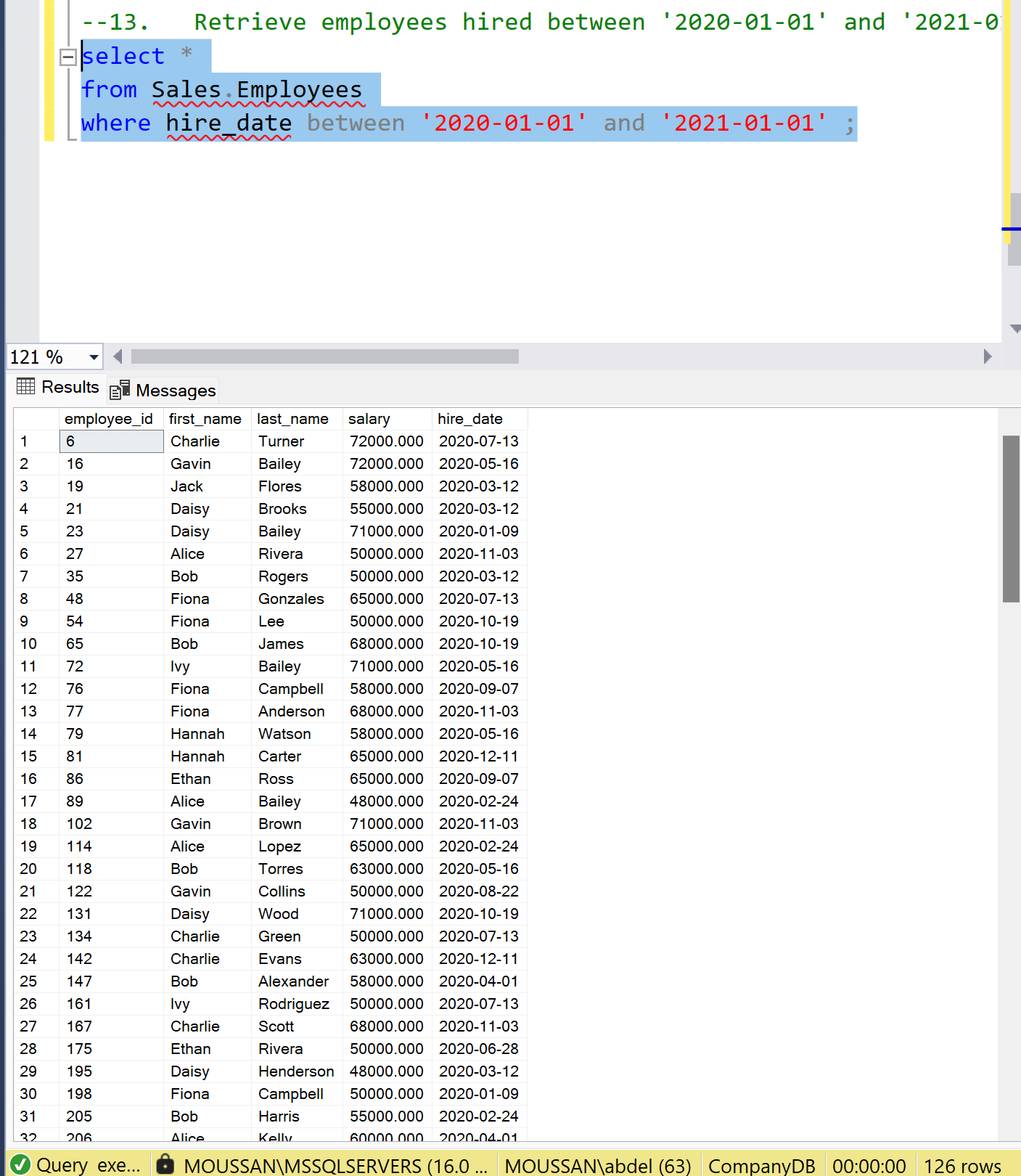
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1. Select employees with a salary in the set (40000, 45000, 50000).

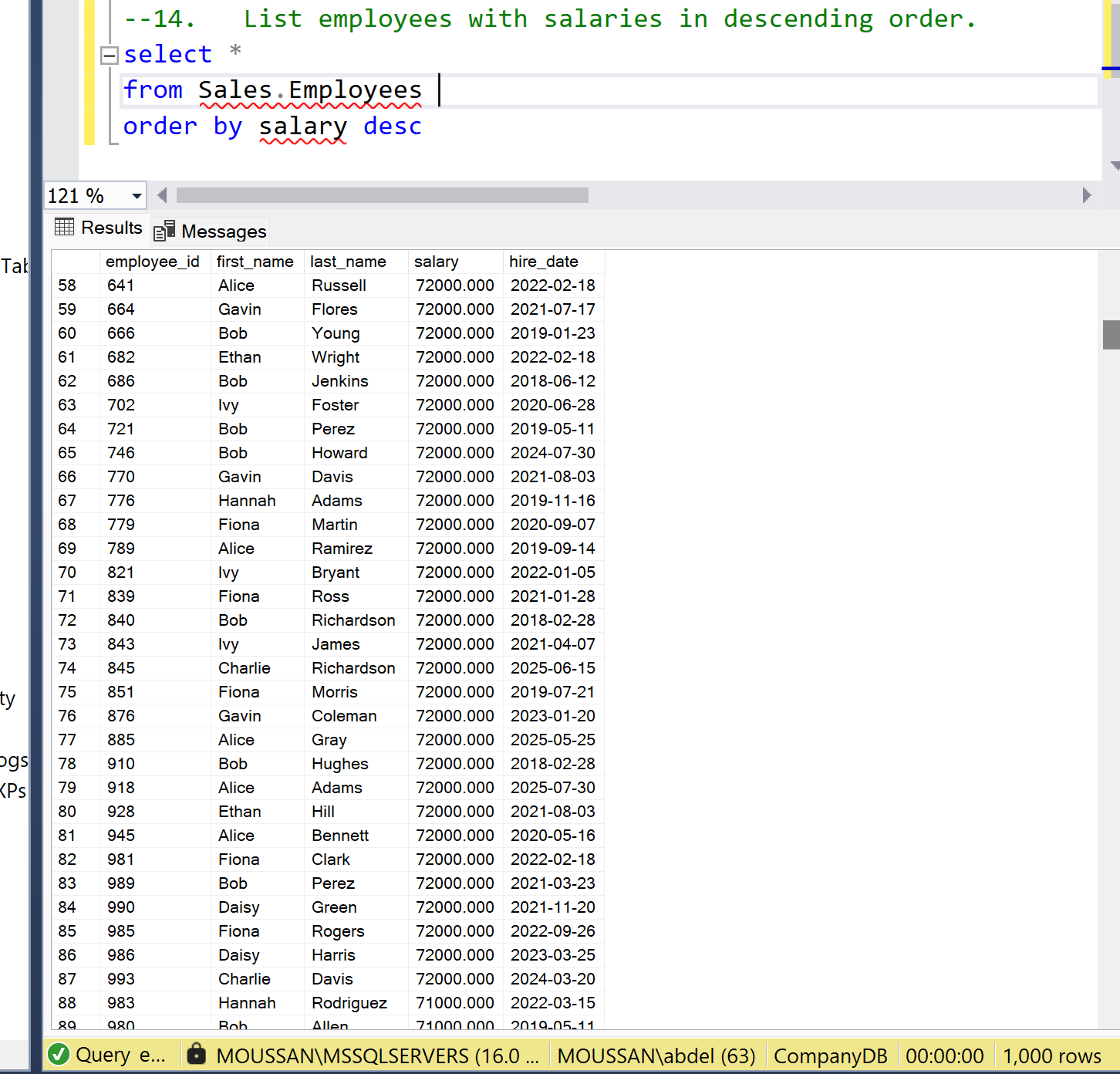
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1. Retrieve employees hired between '2020-01-01' and '2021-01-01.'



1. List employees with salaries in descending order.



1. Show the first 5 employees ordered by "last\_name" in ascending order.

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1. Display employees with a salary greater than 55000 and hired in 2020.

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Description automatically generated

1. Select employees whose first name is 'John' or 'Jane.'

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1. List employees with a salary less than or equal to 55000 and a hire date after '2022-01-01.'

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1. Retrieve employees with a salary greater than the average salary.

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1. Display the 3rd to 7th highest-paid employees.

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1. List employees hired after '2021-01-01' in alphabetical order.

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1. Retrieve employees with a salary greater than 50000 and last name not starting with 'A.'

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1. Display employees with a salary that is not NULL.

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1. Show employees with names containing 'e' or 'i' and a salary greater than 45000.

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