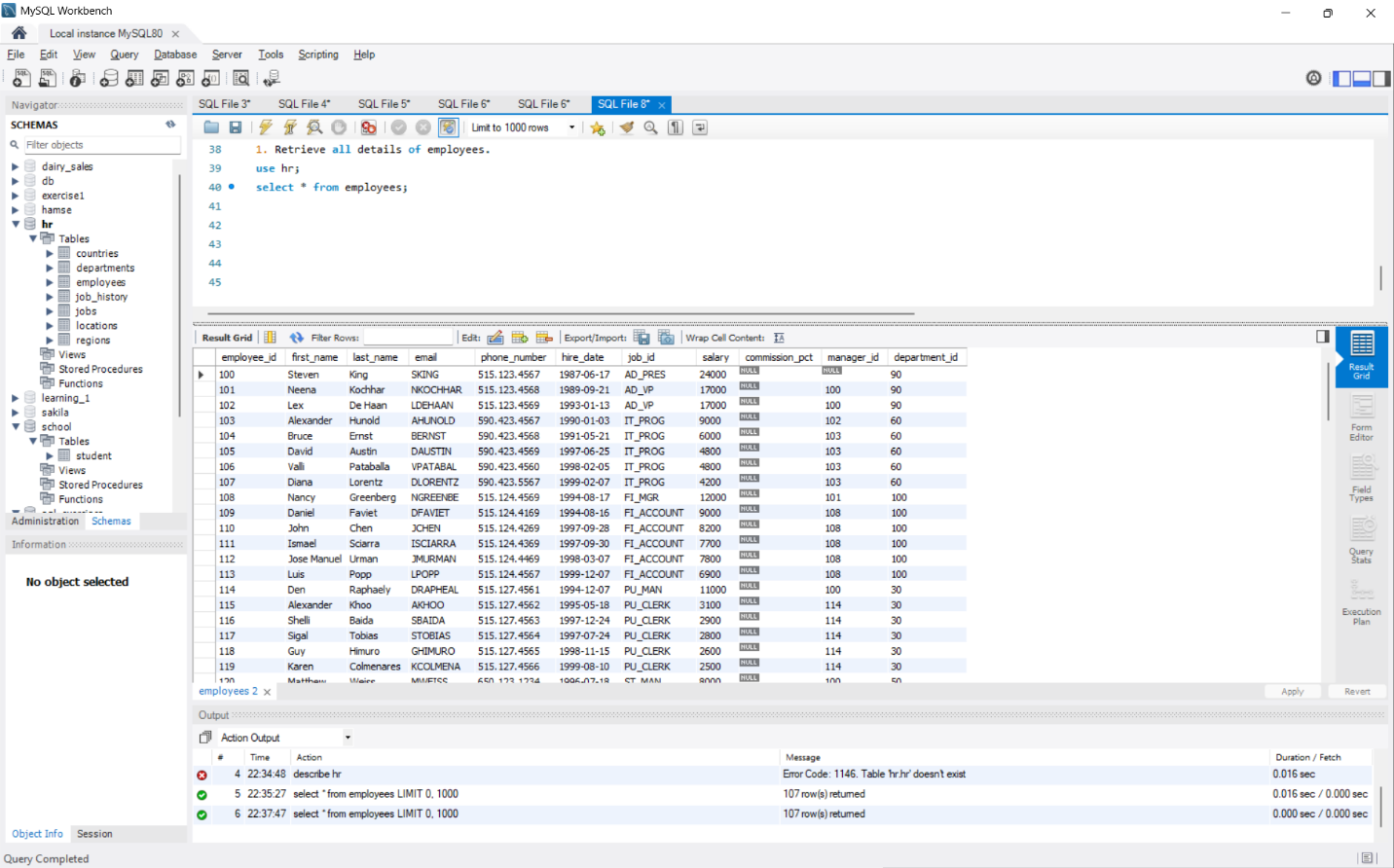
**HR Database SQL Project**

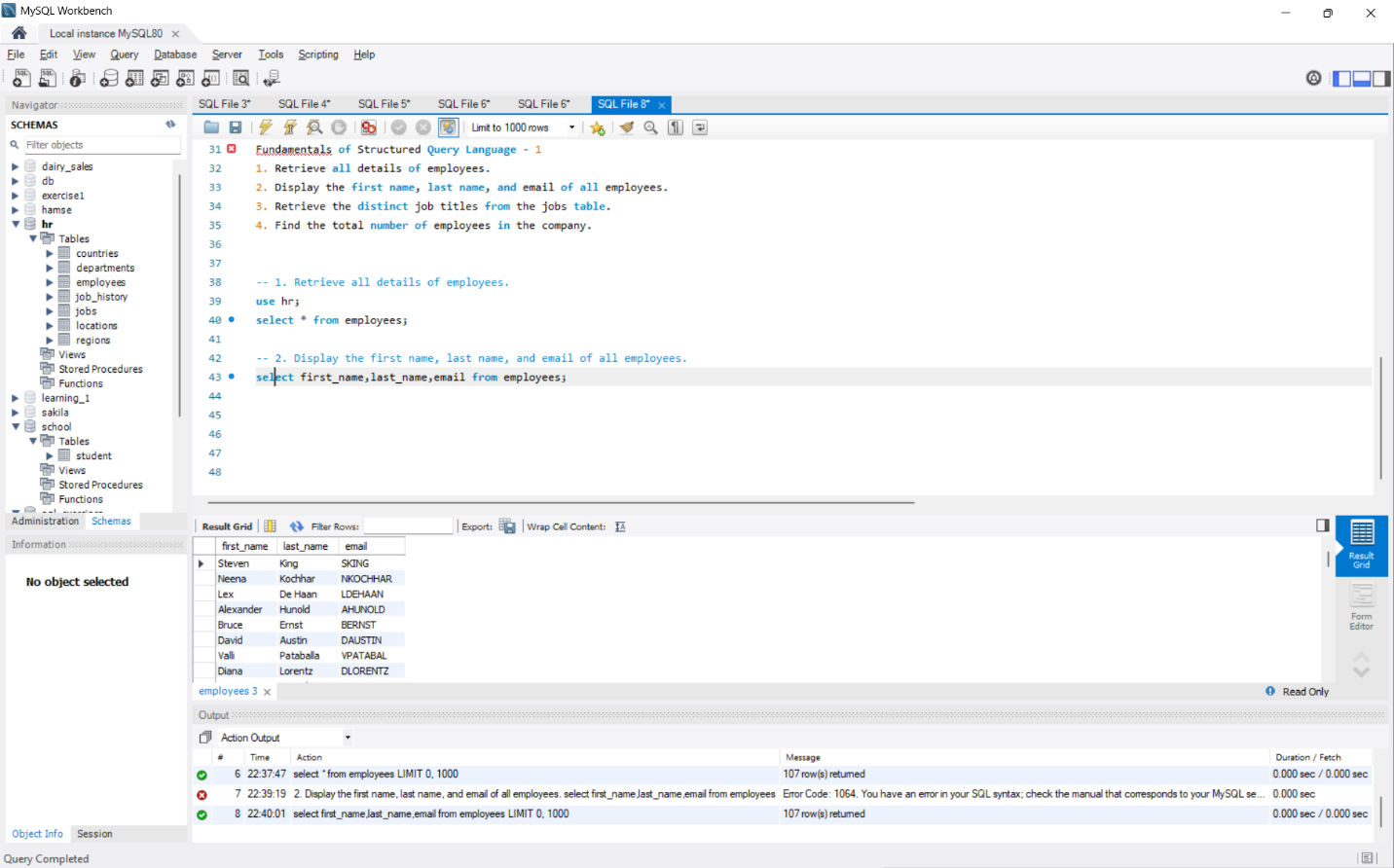
**1. Retrieve all details of employees**

**-SELECT \* FROM employees;**

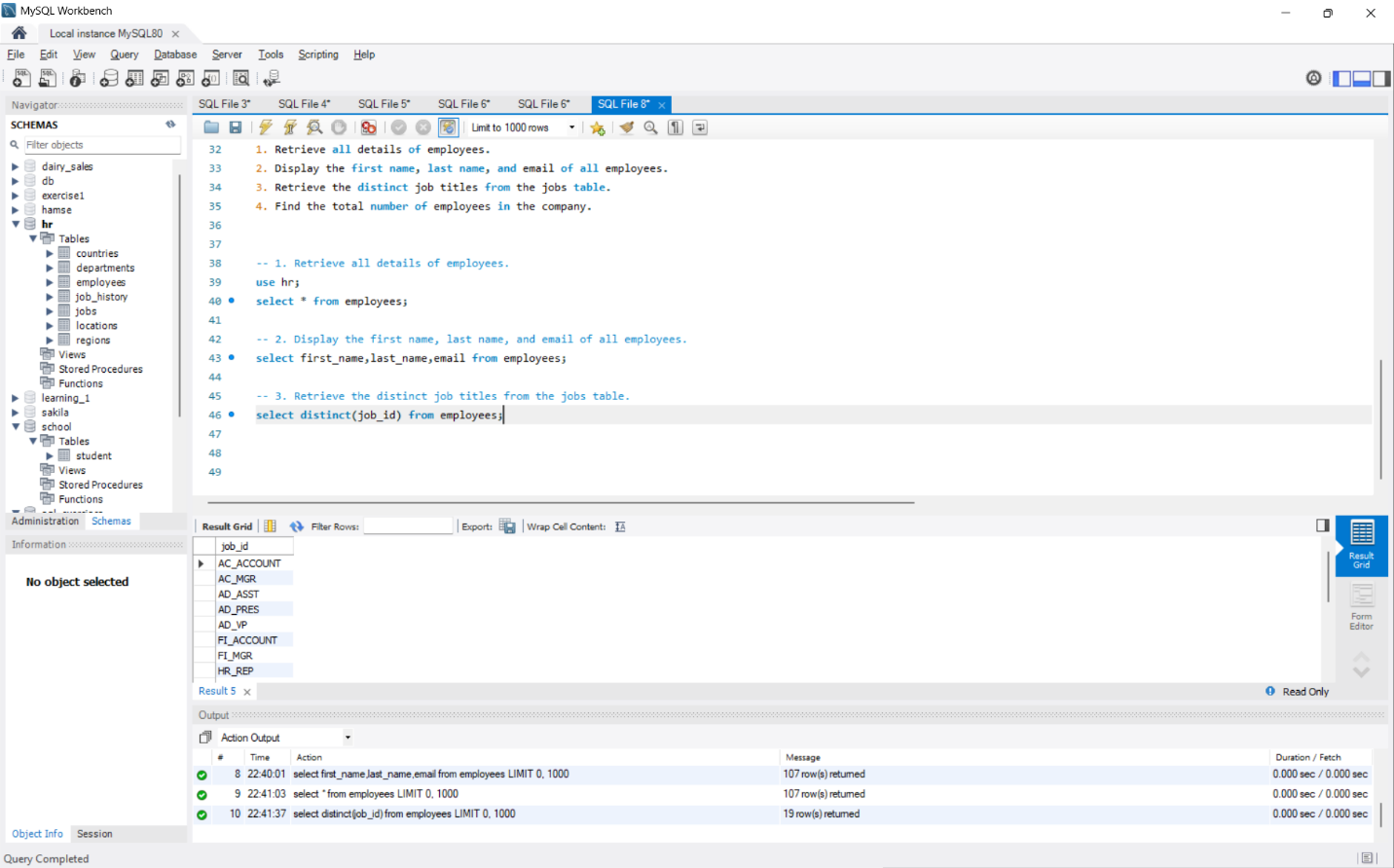


**2. Display first name, last name, and email of all employees**

**-SELECT first\_name, last\_name, email FROM employees;**

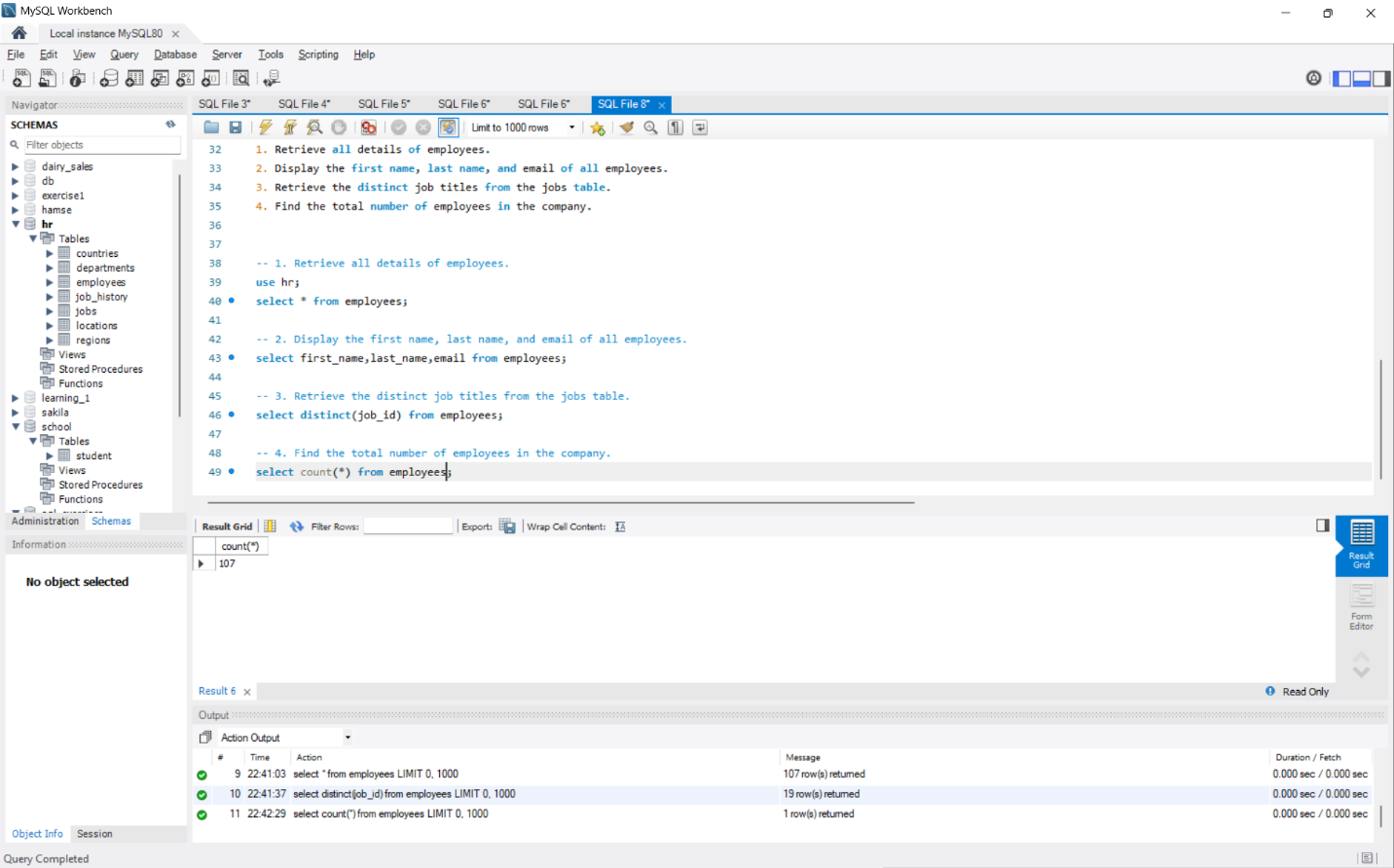


**3. Retrieve the distinct job titles from the jobs table**

**-SELECT DISTINCT job\_title FROM jobs;** 

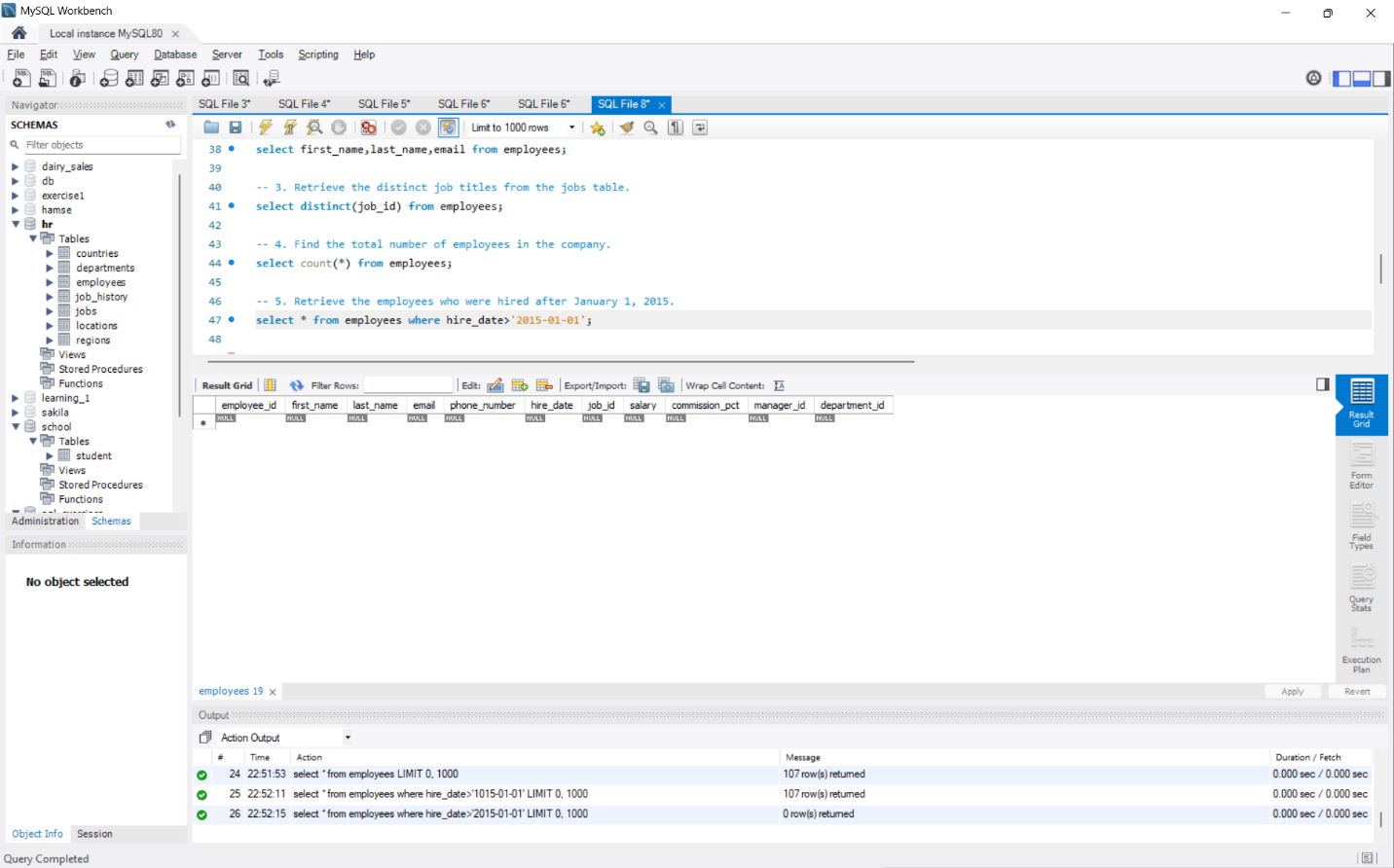
**4. Find the total number of employees**

**-SELECT COUNT(\*) AS total\_employees FROM employees;**



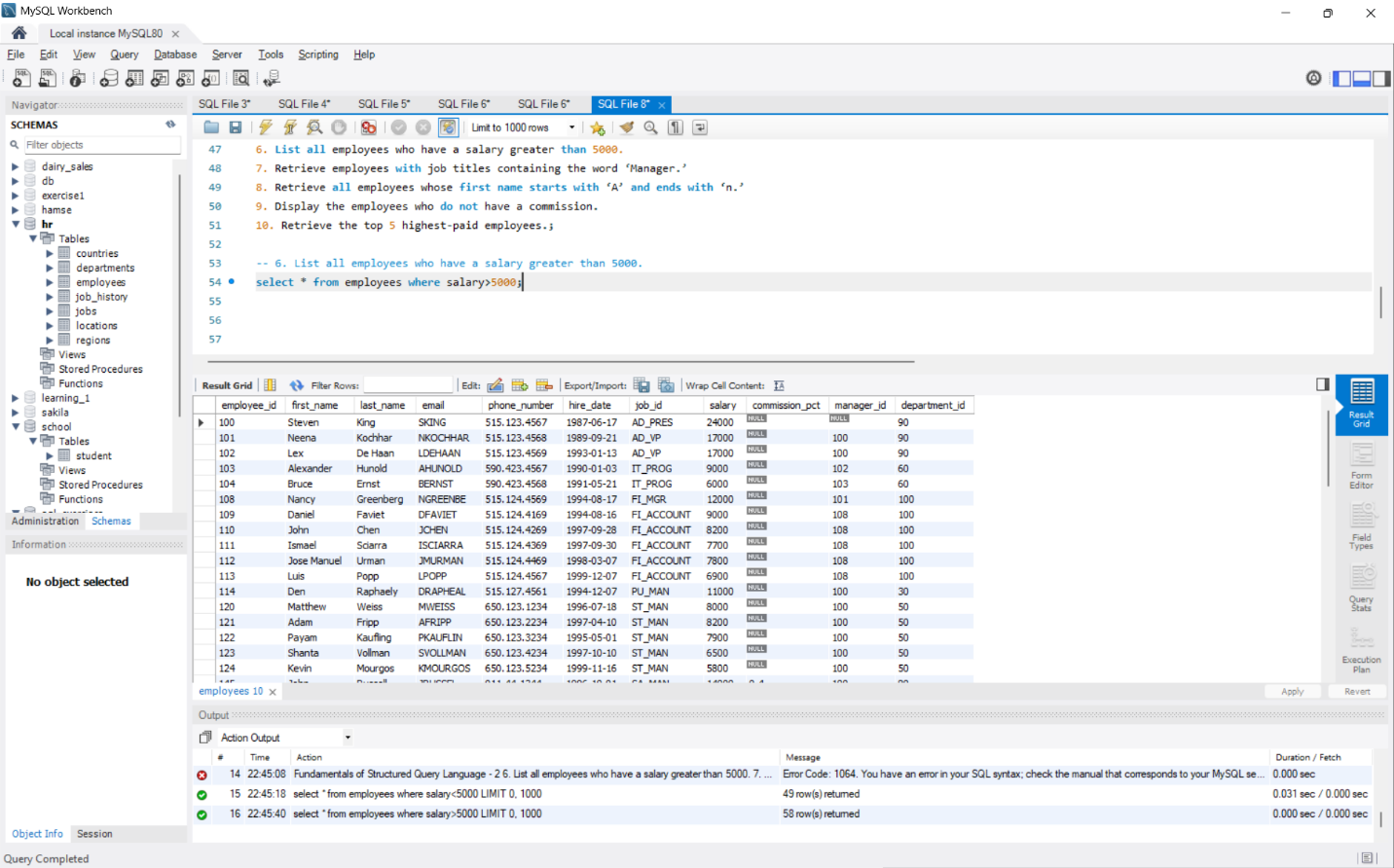
**5. Retrieve employees hired after January 1, 2015**

**-SELECT \* FROM employees WHERE hire\_date > '2015-01-01';**



**6. Employees with salary greater than 5000**

**-SELECT \* FROM employees WHERE salary > 5000;**

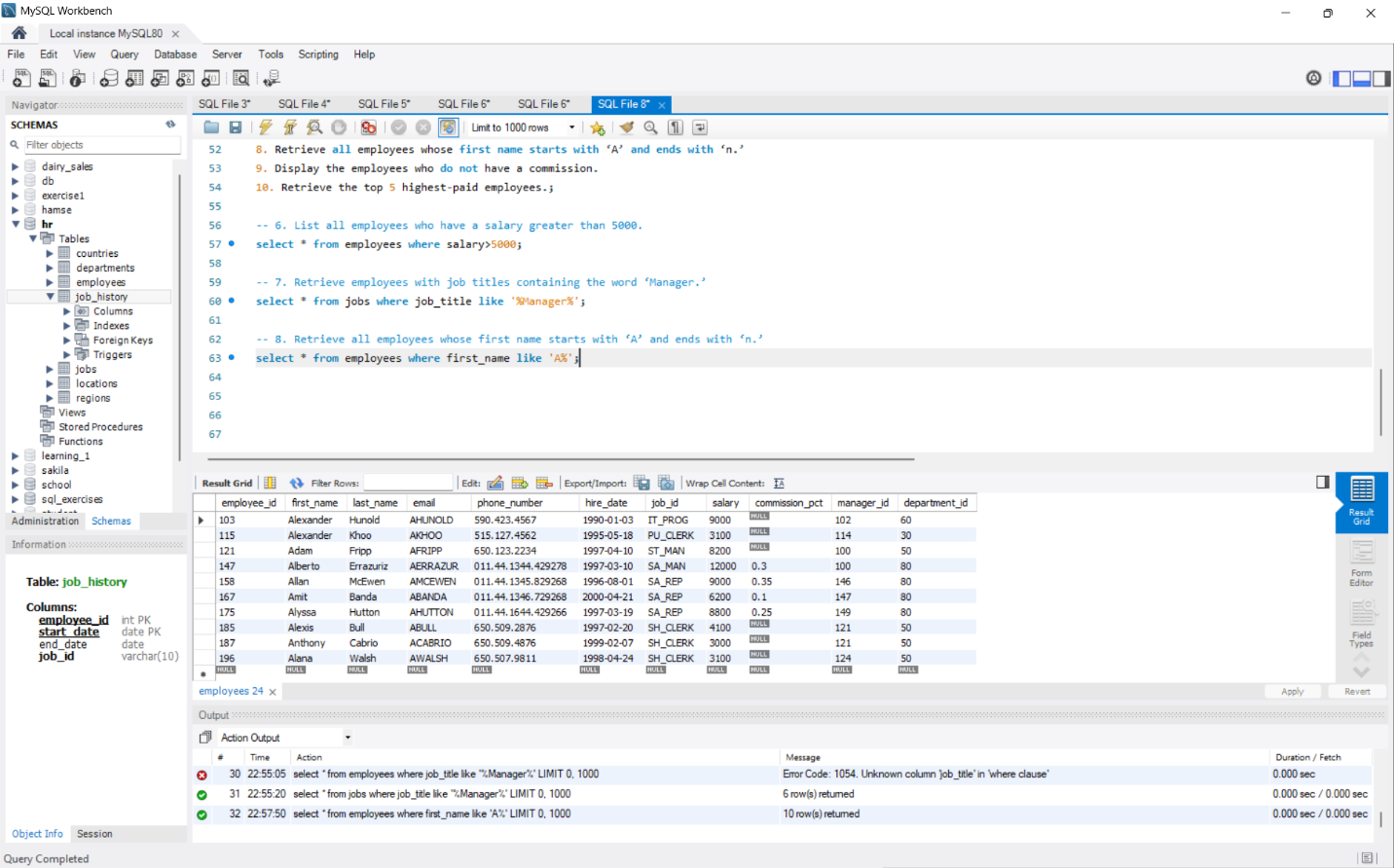


**7. Employees with job titles containing ‘Manager’ -SELECT \* FROM employees WHERE job\_title LIKE '%Manager%';**



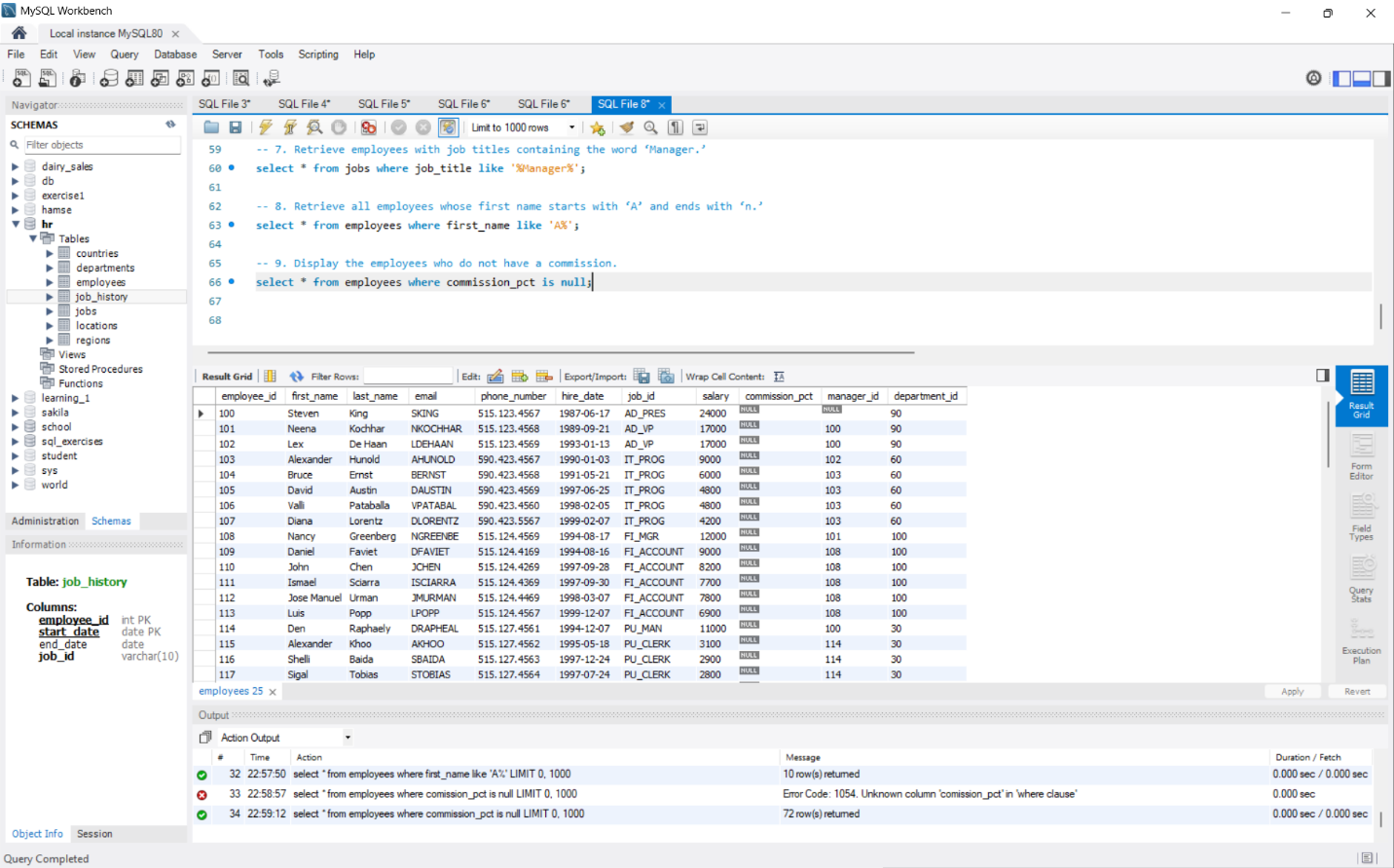
**8. Employees whose first name starts with ‘A’ and ends with ‘n’**

**-SELECT \* FROM employees WHERE first\_name LIKE 'A%n';**



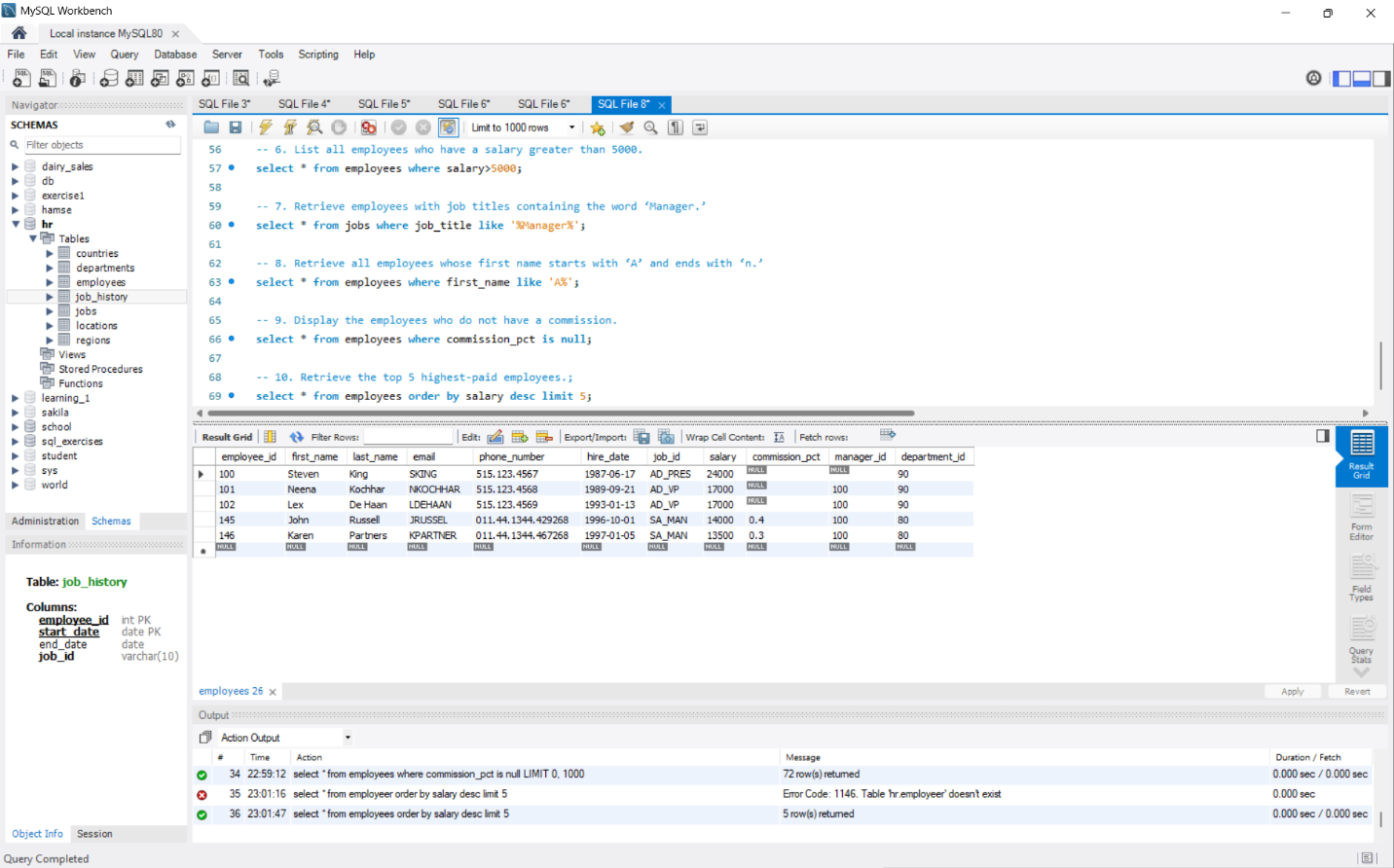
**9. Employees without a commission**

**-SELECT \* FROM employees WHERE commission\_pct IS NULL;**



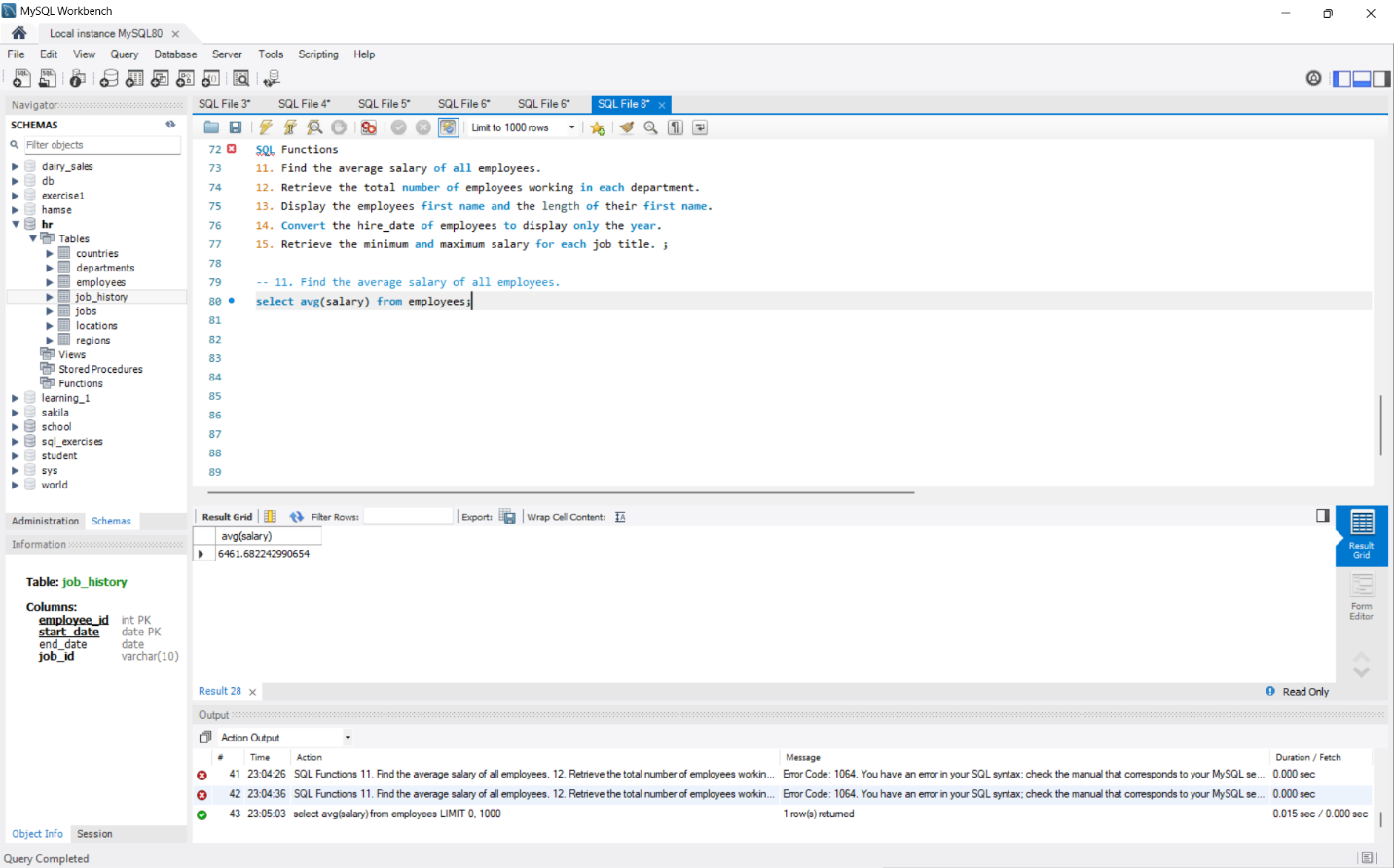
**10. Retrieve the top 5 highest-paid employees**

**-SELECT \* FROM employees ORDER BY salary DESC LIMIT 5;**



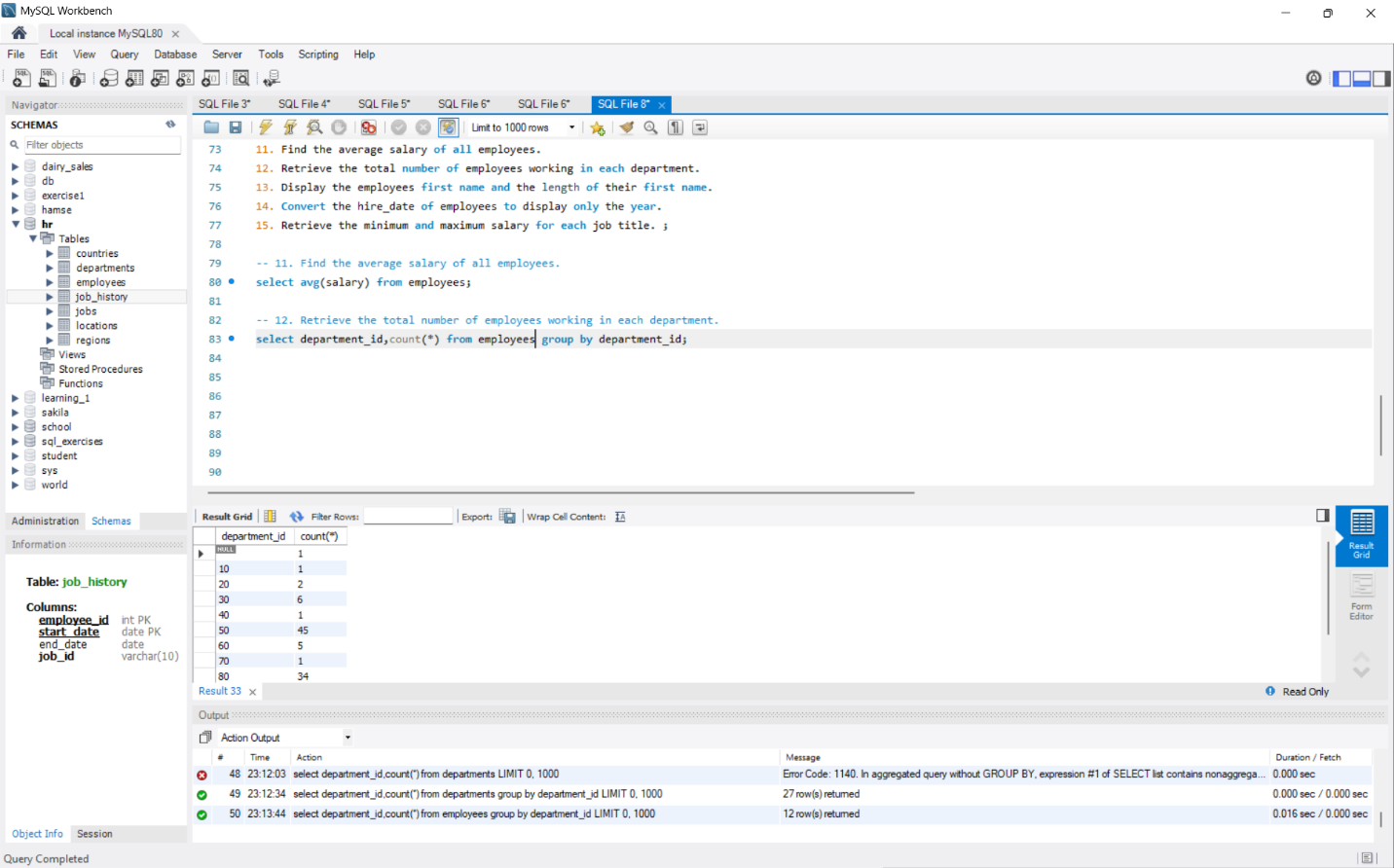
**11. Find the average salary of all employees**

**SELECT AVG(salary) AS average\_salary FROM employees;**



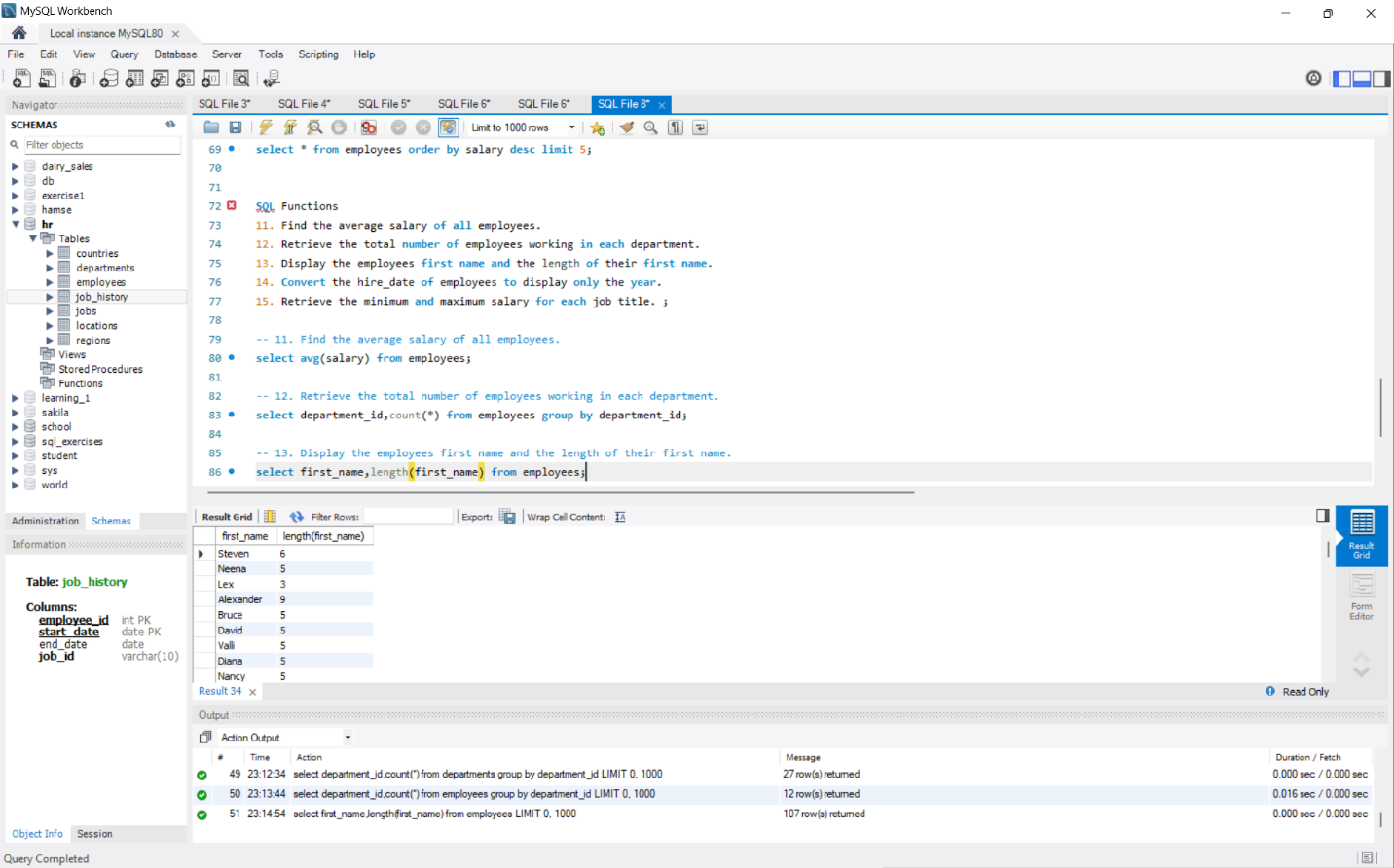
**12. Total employees in each department**

**-SELECT department\_id, COUNT(\*) AS total\_employees FROM employees GROUP BY department\_id;**



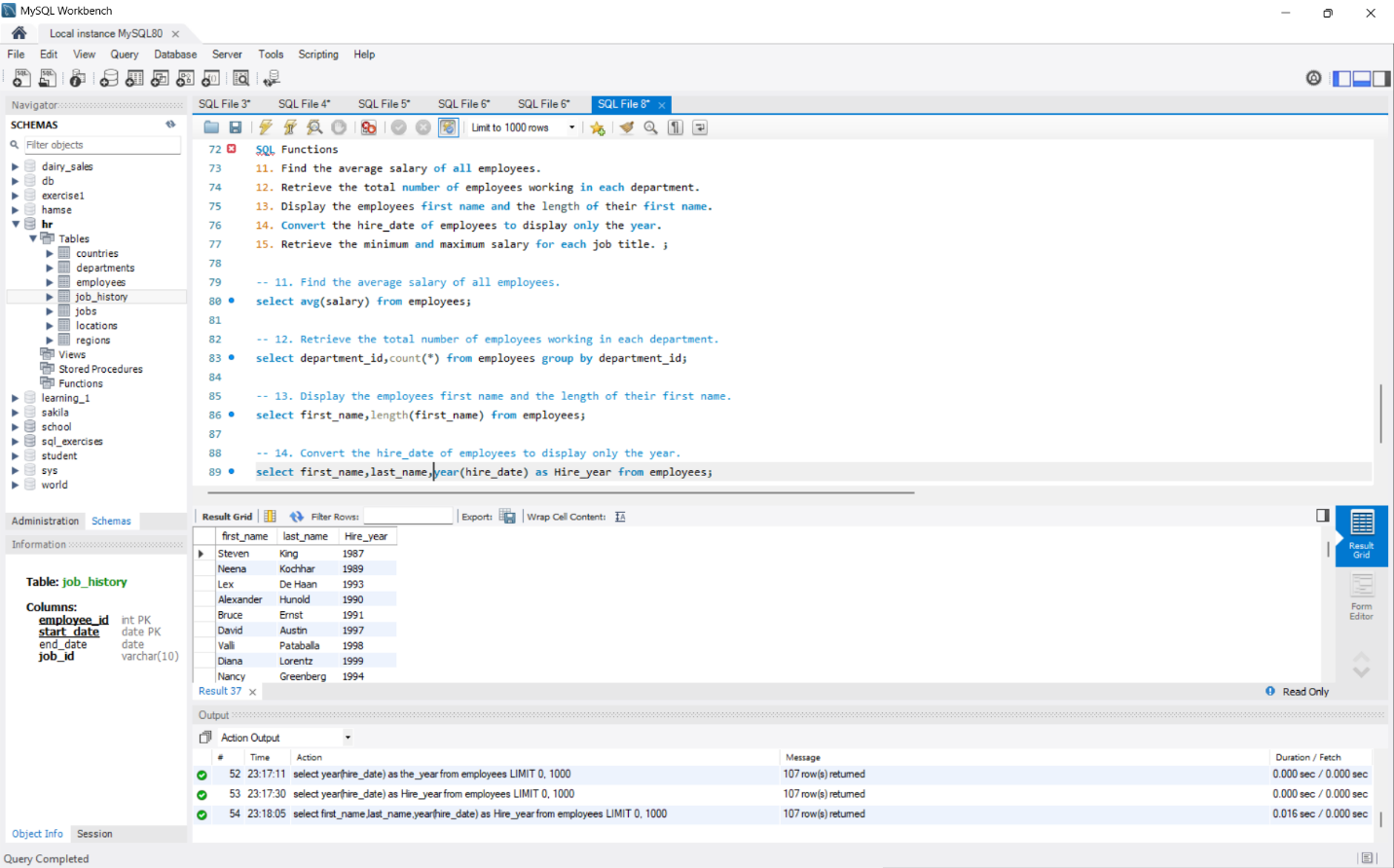
**13. Employee's first name and its length**

**-SELECT first\_name, LENGTH(first\_name) AS name\_length FROM employees;**

****

**14. Convert hire\_date to display only the year**

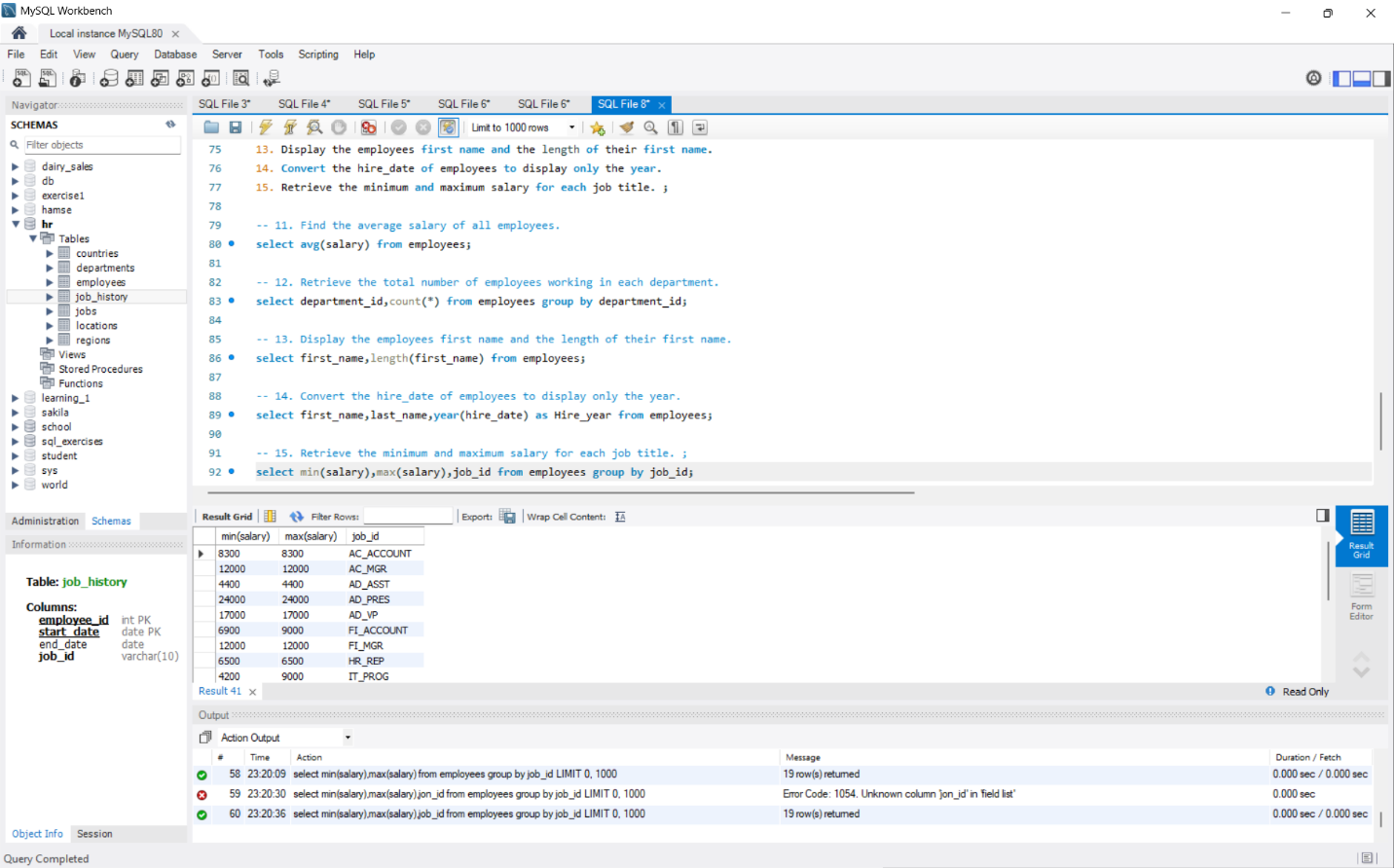
**–SELECT first\_name, last\_name, YEAR(hire\_date) AS hire\_year FROM employees;**



**15. Minimum and maximum salary for each job title**

**-SELECT job\_title, MIN(salary) AS min\_salary, MAX(salary)**

**AS max\_salary FROM employees GROUP BY job\_title;**

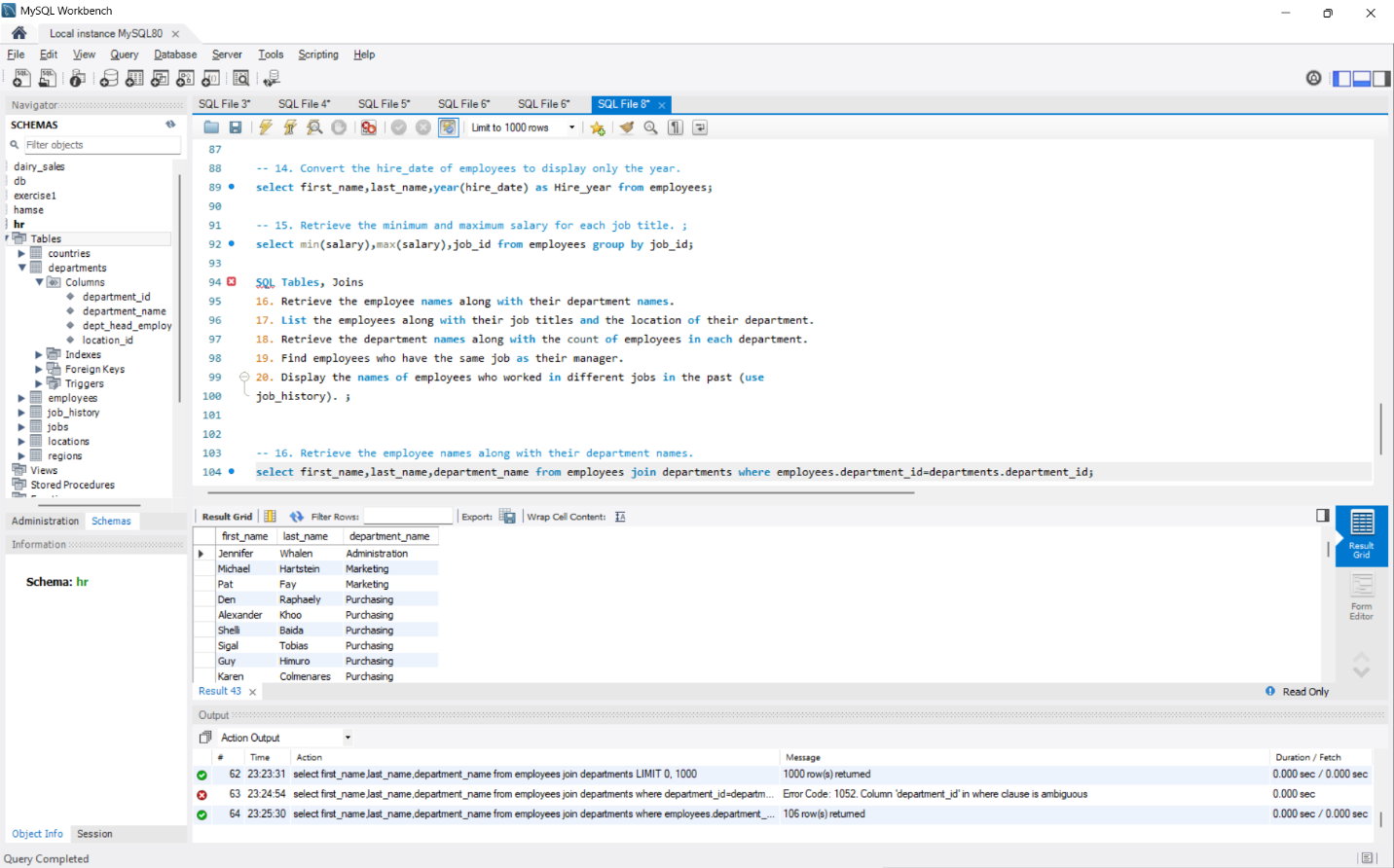


**16. Employees and their department names**

**-SELECT e.first\_name, e.last\_name, d.department\_name**

**FROM employees e**

**JOIN departments d ON e.department\_id = d.department\_id;**



**17. Employees, job titles, and department locations**

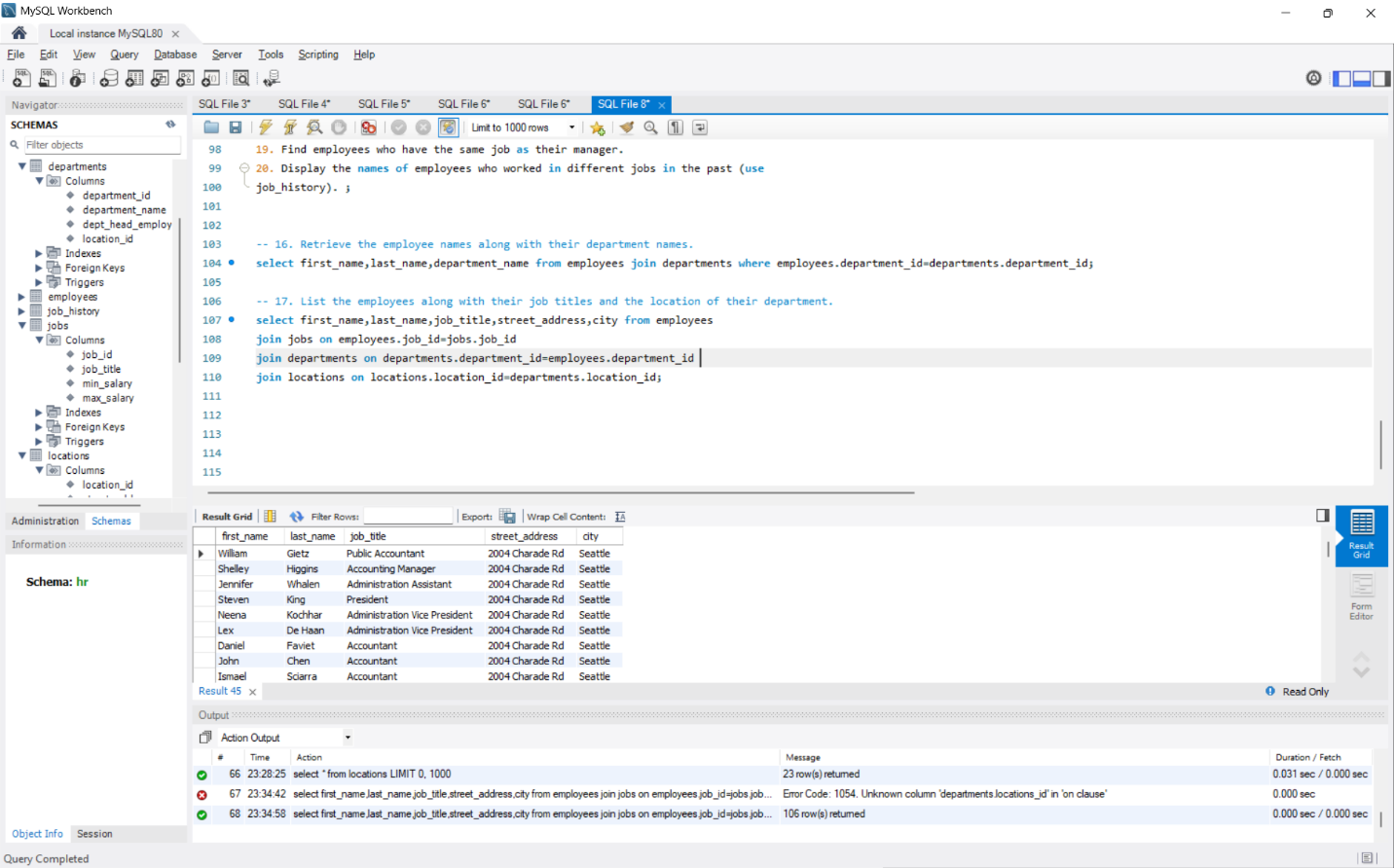
**-SELECT e.first\_name, e.last\_name, j.job\_title, l.city**

**FROM employees e**

**JOIN jobs j ON e.job\_id = j.job\_id**

**JOIN departments d ON e.department\_id = d.department\_id**

**JOIN locations l ON d.location\_id = l.location\_id;**

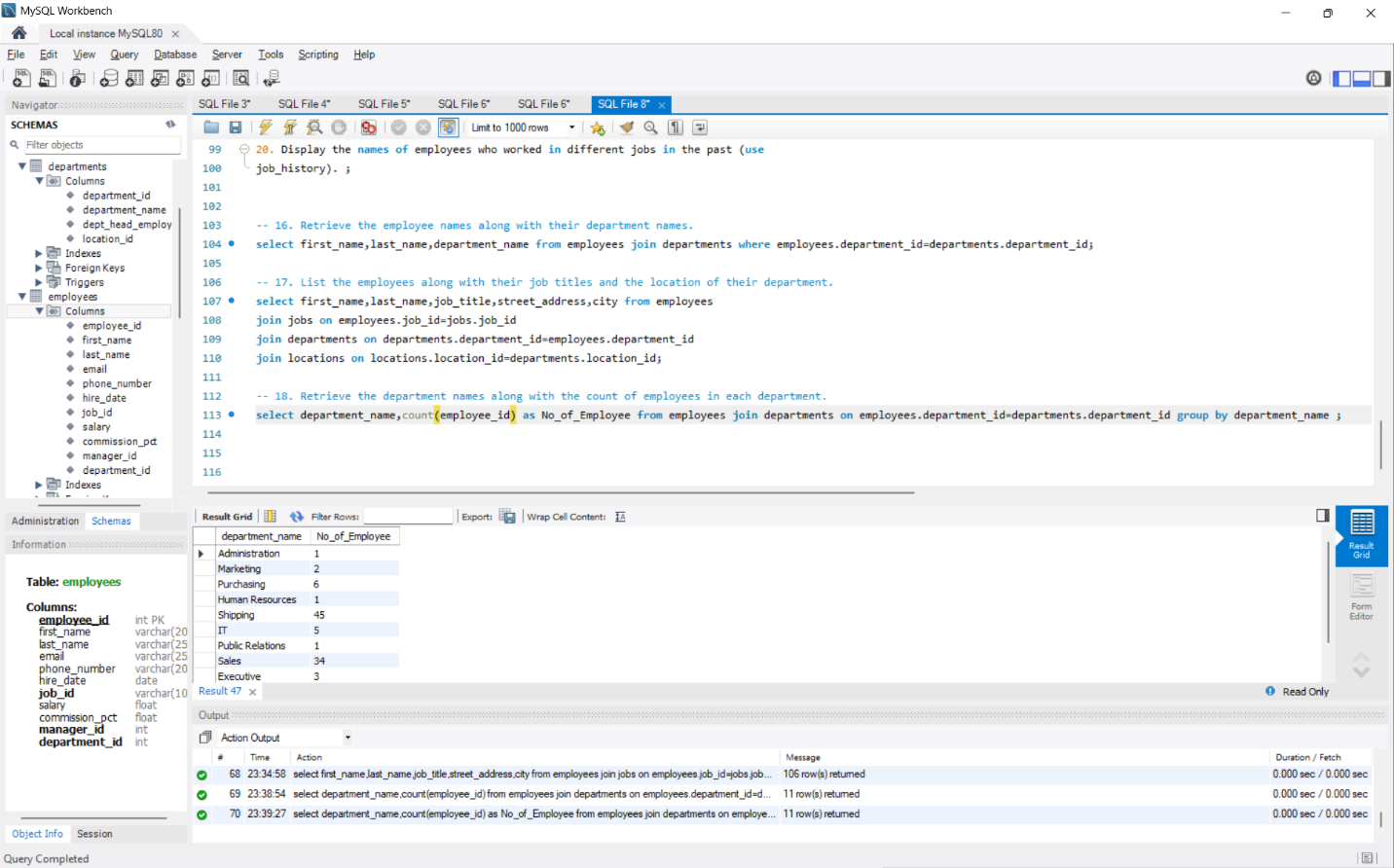


**18. Department names with employee count**

**-SELECT d.department\_name, COUNT(e.employee\_id) AS employee\_count FROM departments d**

**LEFT JOIN employees e ON d.department\_id = e.department\_id**

**GROUP BY d.department\_name;**



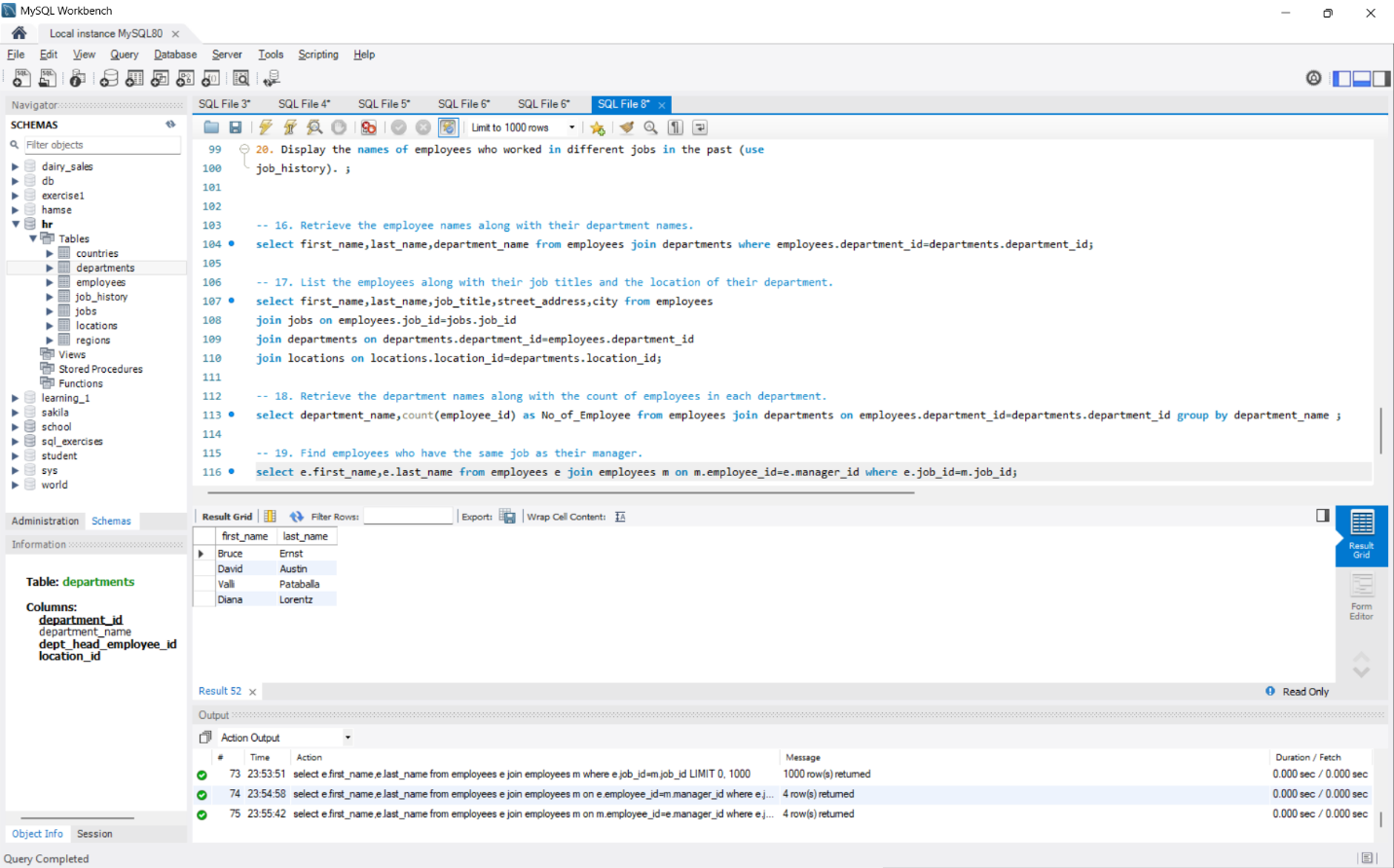
**19. Employees with the same job as their manager**

**-SELECT e.first\_name, e.last\_name**

**FROM employees e**

**JOIN employees m ON e.manager\_id = m.employee\_id**

**WHERE e.job\_id = m.job\_id;**



**20. Employees who worked in different jobs in the past**

**-SELECT e.first\_name, e.last\_name**

**FROM employees e**

**JOIN job\_history jh ON e.employee\_id = jh.employee\_id**

**GROUP BY e.first\_name, e.last\_name**

**HAVING COUNT(DISTINCT jh.job\_id) > 1;**

