EXERCISE 6 SINGLE ROW FUNCTIONS

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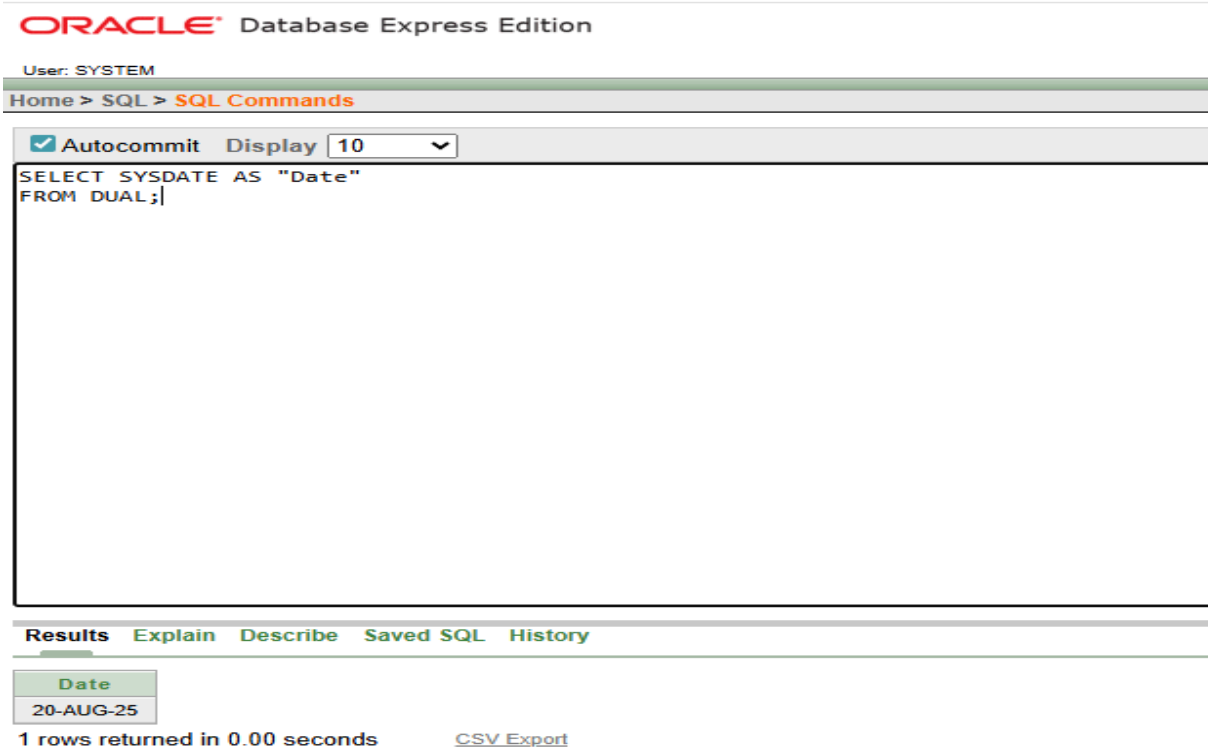
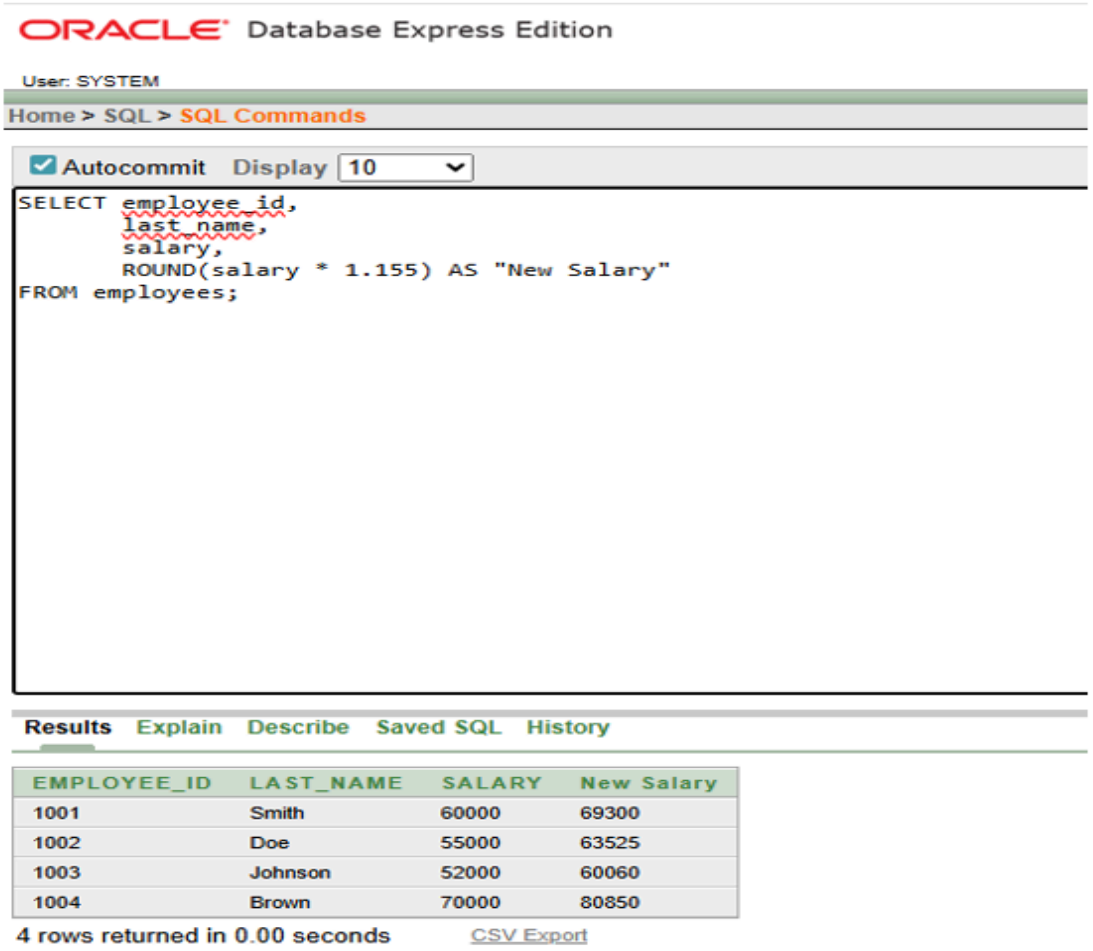
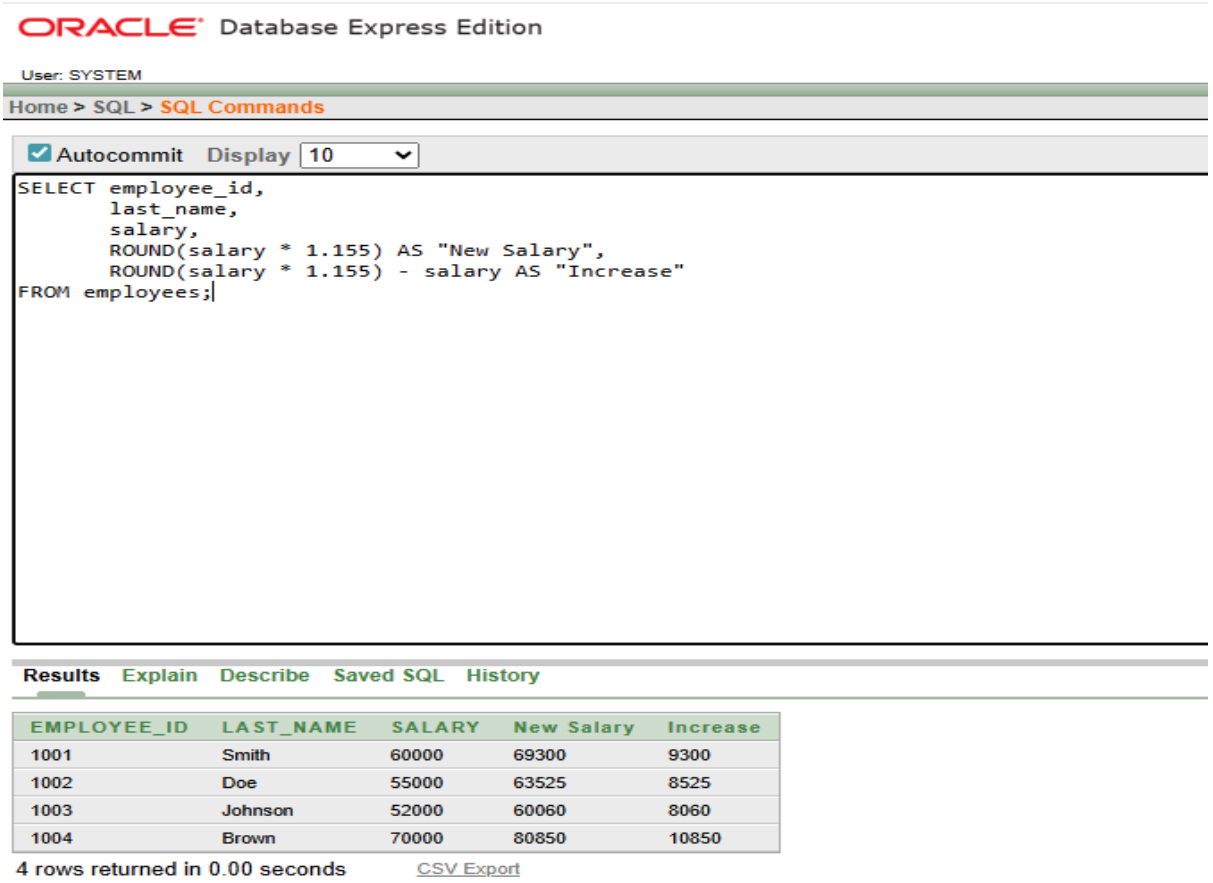
1.Write a query to display the current date. Label the column Date.



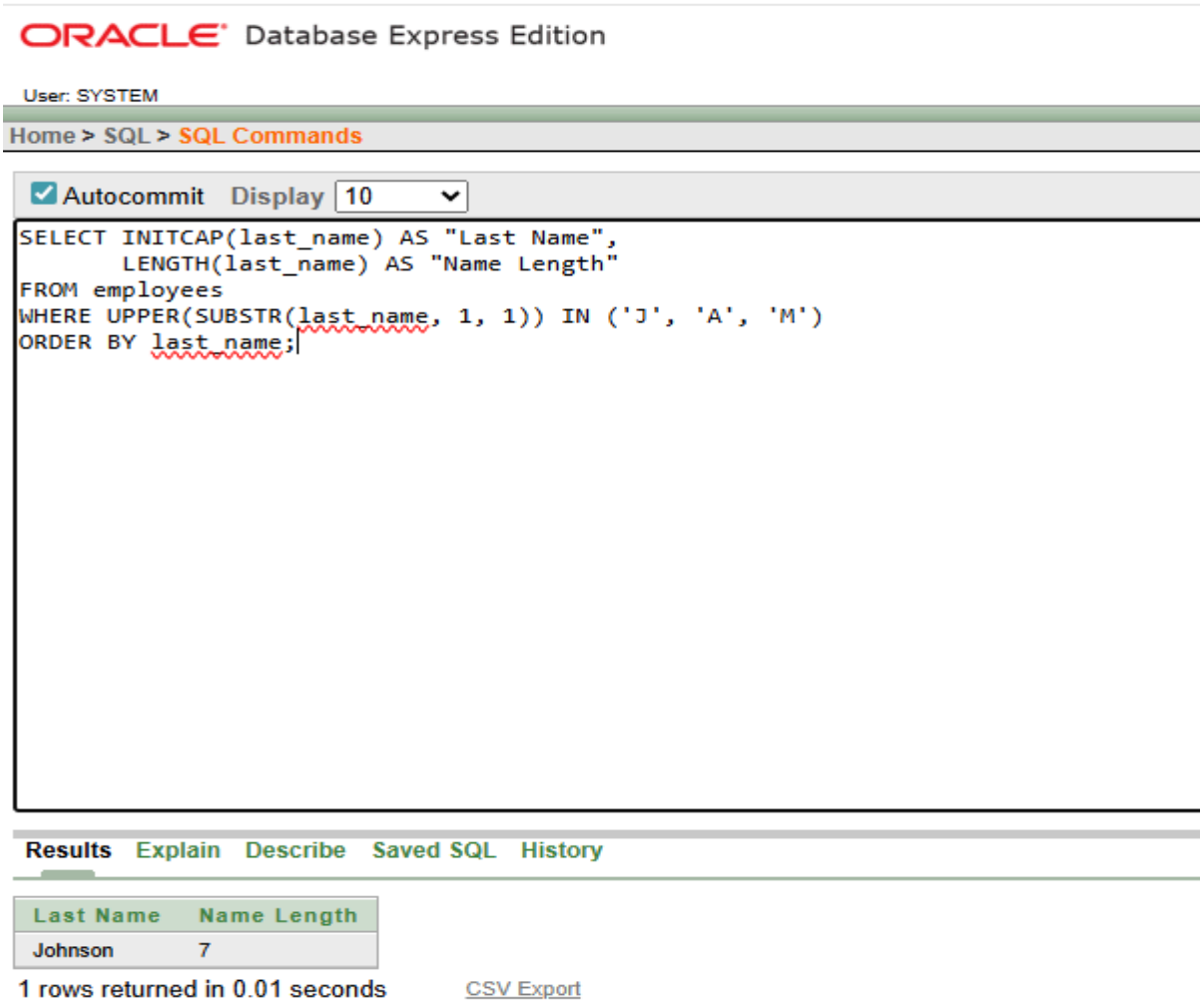
2. The HR department needs a report to display the employee number, last name, salary, and increased by 15.5% (expressed as a whole number) for each employee. Label the column New Salary.



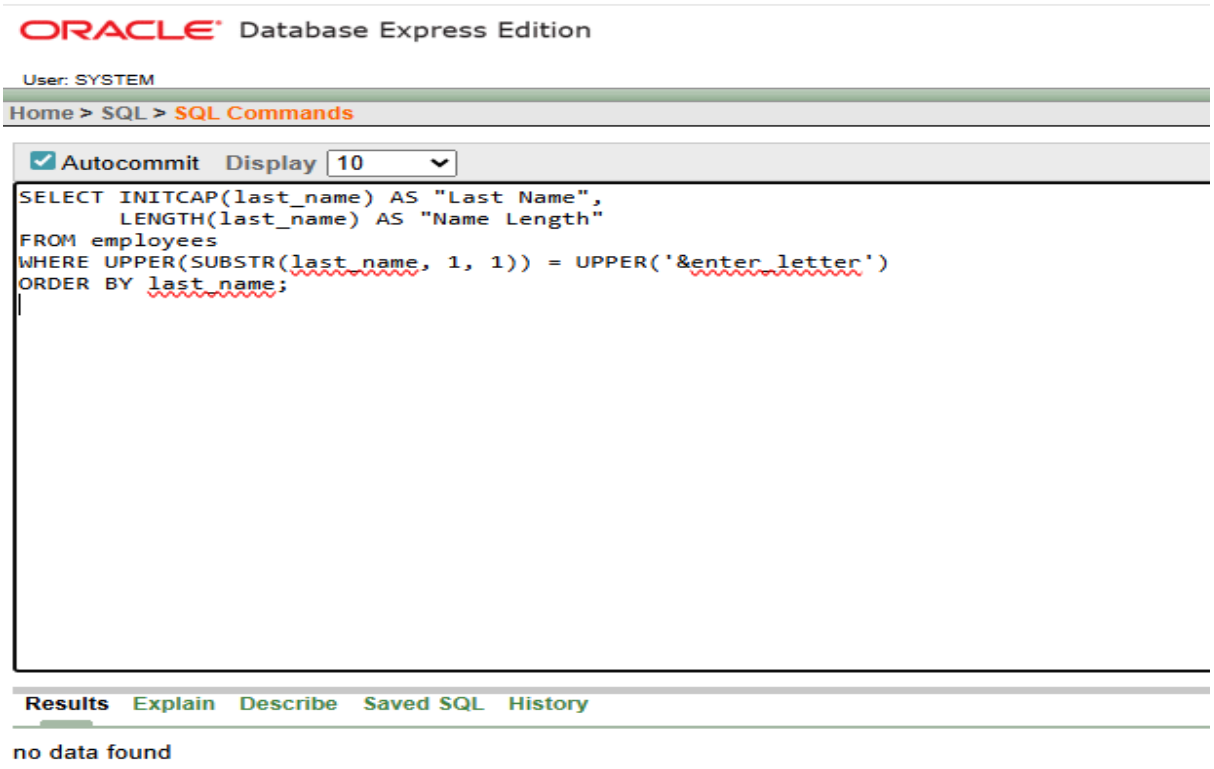
3. Modify your query lab_03_02.sql to add a column that subtracts the old salary from the new salary. Label the column Increase.



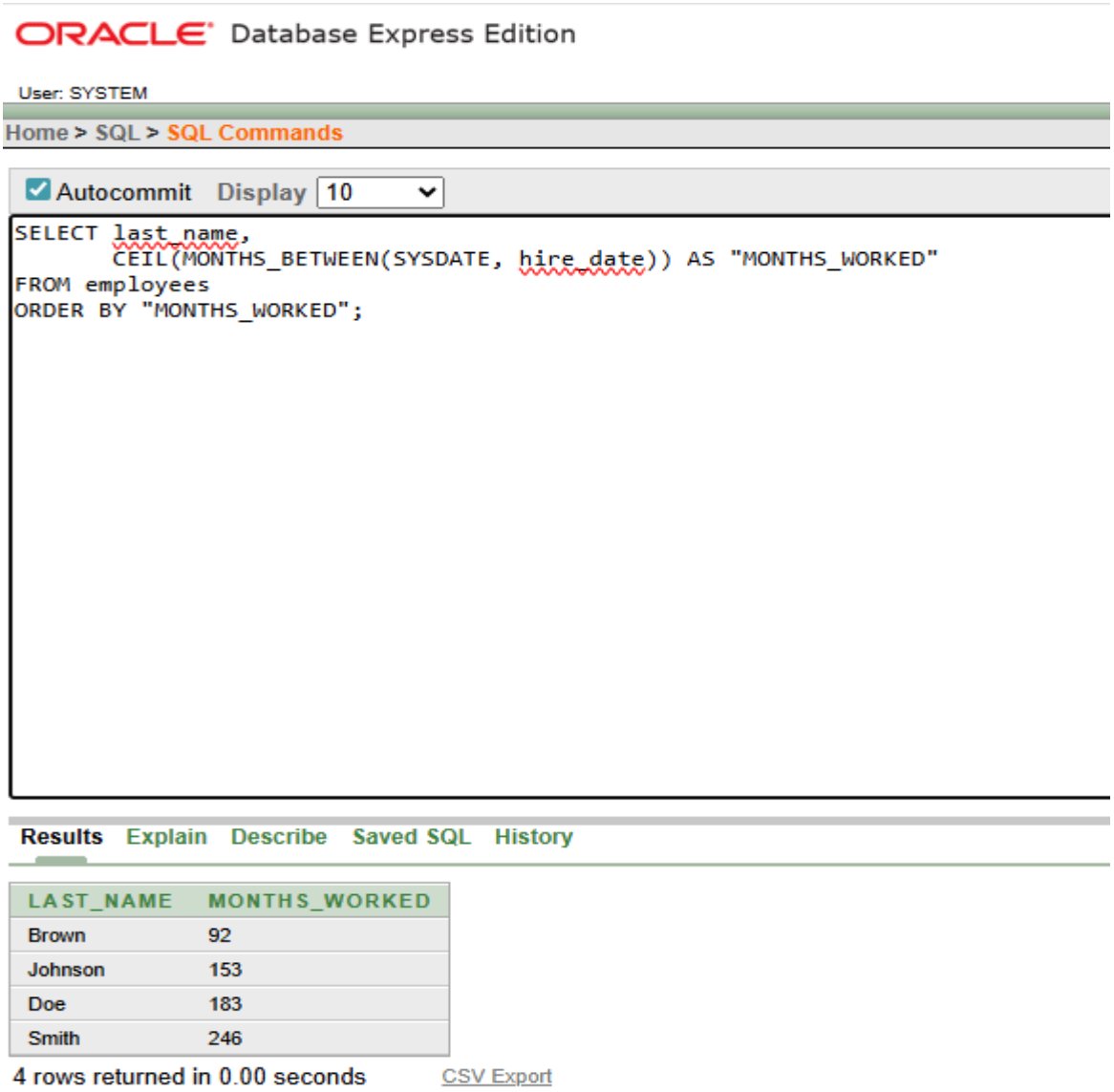
4. Write a query that displays the last name (with the first letter uppercase and all other letters lowercase) and the length of the last name for all employees whose name starts with the letters J, A, or M. Give each column an appropriate label. Sort the results by the employees' last names.



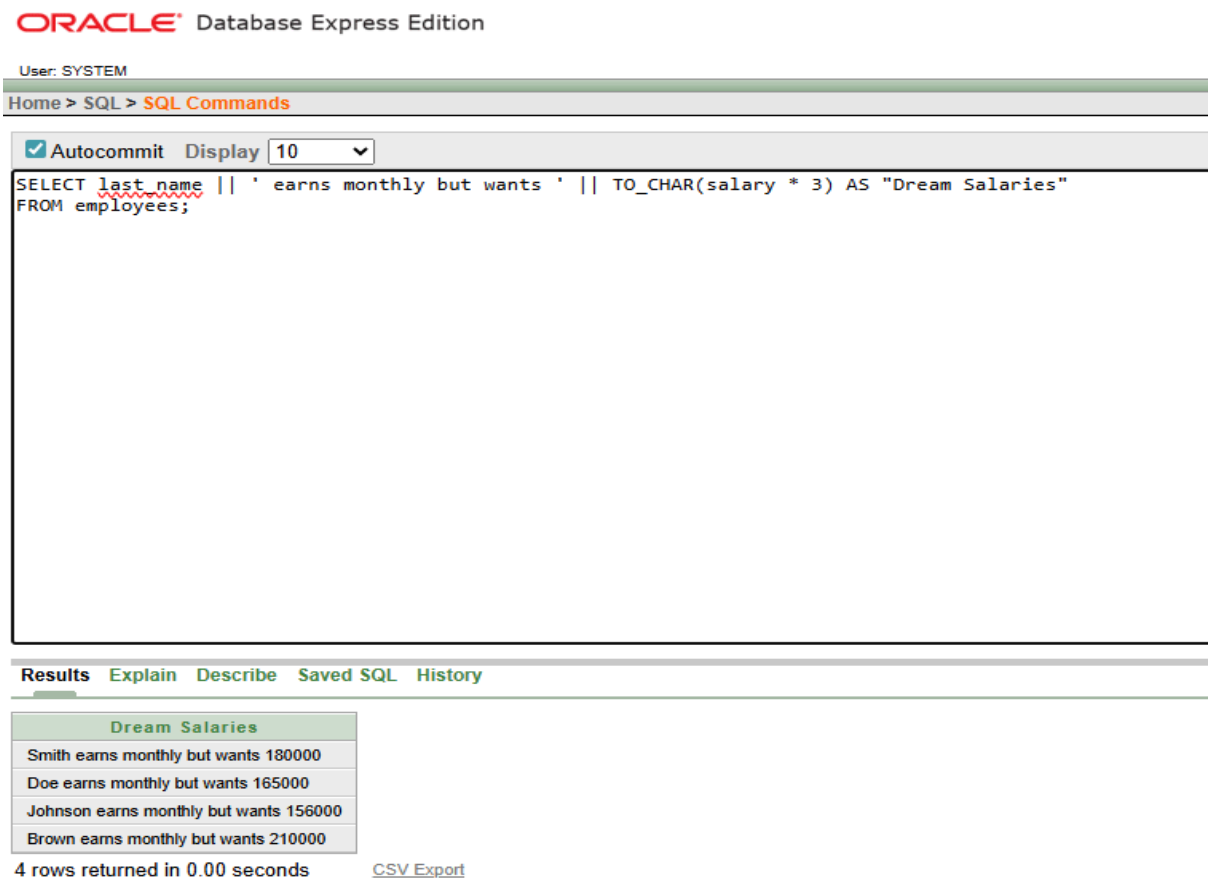
5. Rewrite the query so that the user is prompted to enter a letter that starts the last name. For example, if the user enters H when prompted for a letter, then the output should show all employees whose last name starts with the letter H.



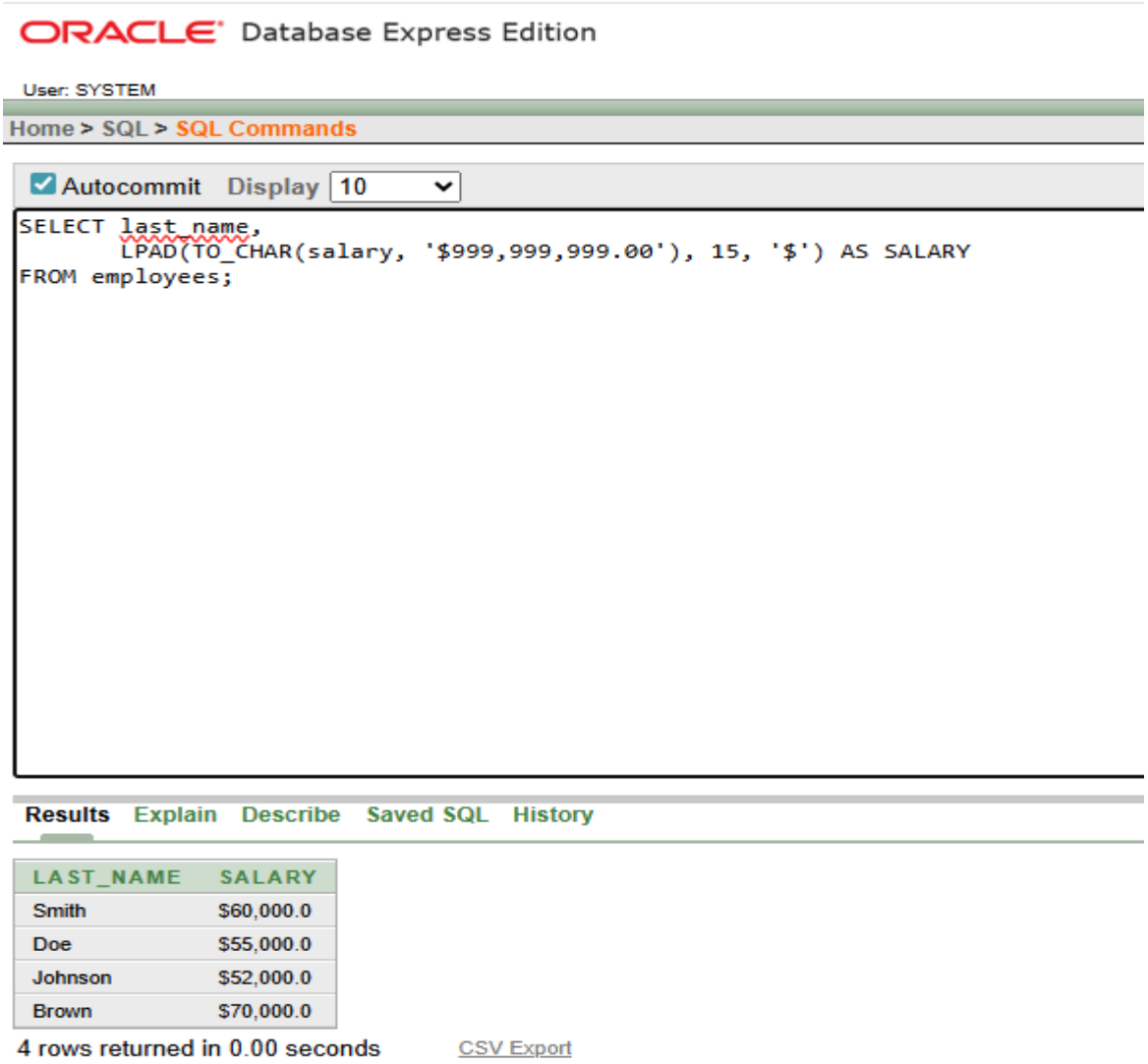
6. The HR department wants to find the length of employment for each employee. For each employee, display the last name and calculate the number of months between today and the date on which the employee was hired. Label the column MONTHS_WORKED. Order your results by the number of months employed. Round the number of months up to the closest whole number



7. Create a report that produces the following for each employee: earns monthly but wants . Label the column Dream Salaries.



8. Create a query to display the last name and salary for all employees. Format the salary to be 15 characters long, left-padded with the $ symbol. Label the column SALARY.



9. Display each employee's last name, hire date, and salary review date, which is the first Monday after six months of service. Label the column REVIEW. Format the dates to appear in the format similar to "Monday, the Thirty-First of July, 2000."

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT last_name,
       TO_CHAR(hire_date, 'fmDay, "the" DDth "of" Month, YYYY') AS hire_date,
       TO_CHAR(
         NEXT_DAY(ADD_MONTHS(hire_date, 6) - 1, 'MONDAY'),
         'fmDay, "the" DDth "of" Month, YYYY'
       ) AS REVIEW
FROM employees;
```

Results Explain Describe Saved SQL History

LAST_NAME	HIRE_DATE	REVIEW
Smith	Tuesday, the 15TH of March, 2005	Monday, the 19TH of September, 2005
Doe	Tuesday, the 1ST of June, 2010	Monday, the 6TH of December, 2010
Johnson	Friday, the 23RD of November, 2012	Monday, the 27TH of May, 2013
Brown	Wednesday, the 10TH of January, 2018	Monday, the 16TH of July, 2018

4 rows returned in 0.02 seconds CSV Export

10. Display the last name, hire date, and day of the week on which the employee started. Label the column DAY. Order the results by the day of the week, starting with Monday.

ORACLE Database Express Edition

User: SYSTEM

Home > SQL > SQL Commands

Autocommit Display 10

```
SELECT last_name,
       hire_date,
       TO_CHAR(hire_date, 'Day') AS DAY
FROM employees
ORDER BY TO_CHAR(hire_date, 'D');
```

Results Explain Describe Saved SQL History

LAST_NAME	HIRE_DATE	DAY
Smith	15-MAR-05	Tuesday
Doe	01-JUN-10	Tuesday
Brown	10-JAN-18	Wednesday
Johnson	23-NOV-12	Friday

4 rows returned in 0.00 seconds CSV Export