# ASSIGNMENT-3

**1. select all record of employees.**

Autocommit Display 10 Save Run

```
Select *
from hr.employees
```

Results Explain Describe Saved SQL History

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALA |
|---|---|---|---|---|---|---|---|
| 100 | Steven | King | SKING | 515.123.4567 | 17-JUN-87 | AD_PRES | 24000 |
| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 21-SEP-89 | AD_VP | 17000 |
| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 13-JAN-93 | AD_VP | 17000 |
| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 03-JAN-90 | IT_PROG | 9000 |
| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 21-MAY-91 | IT_PROG | 6000 |
| 105 | David | Austin | DAUSTIN | 590.423.4569 | 25-JUN-97 | IT_PROG | 4800 |
| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 05-FEB-98 | IT_PROG | 4800 |
| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 07-FEB-99 | IT_PROG | 4200 |
| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 17-AUG-94 | FI_MGR | 12000 |
| 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 16-AUG-94 | FI_ACCOUNT | 9000 |

More than 10 rows available. Increase rows selector to view more rows.

**2. Select all records of employees where salary is >10000**

Results Explain Describe Saved SQL History

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALA |
|---|---|---|---|---|---|---|---|
| 100 | Steven | King | SKING | 515.123.4567 | 17-JUN-87 | AD_PRES | 24000 |
| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 21-SEP-89 | AD_VP | 17000 |
| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 13-JAN-93 | AD_VP | 17000 |
| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 03-JAN-90 | IT_PROG | 9000 |
| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 21-MAY-91 | IT_PROG | 6000 |
| 105 | David | Austin | DAUSTIN | 590.423.4569 | 25-JUN-97 | IT_PROG | 4800 |
| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 05-FEB-98 | IT_PROG | 4800 |
| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 07-FEB-99 | IT_PROG | 4200 |
| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 17-AUG-94 | FI_MGR | 12000 |
| 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 16-AUG-94 | FI_ACCOUNT | 9000 |

More than 10 rows available. Increase rows selector to view more rows.

**3. Select first_name, last_name and title of employees having salary between 25000 >=salary >=10000**

Results Explain Describe Saved SQL History

| FIRST_NAME | LAST_NAME |
|---|---|
| Steven | King |
| Neena | Kochhar |
| Lex | De Haan |
| Nancy | Greenberg |
| Den | Raphaely |
| John | Russell |
| Karen | Partners |
| Alberto | Errazuriz |
| Gerald | Cambrault |
| Eleni | Zlotkey |
| More than 10 rows available. Increase rows selector to view more rows. | |

10 rows returned in 0.00 seconds CSV Export

**4. select first_name, emp_id , phone no of records of employees having department id=90**

Autocommit Display 10 Save Run

```
Select first_name,employee_id,phone_number
from hr.employees
where department_id=90
```

Results Explain Describe Saved SQL History

| FIRST_NAME | EMPLOYEE_ID | PHONE_NUMBER |
|---|---|---|
| Steven | 100 | 515.123.4567 |
| Neena | 101 | 515.123.4568 |
| Lex | 102 | 515.123.4569 |

3 rows returned in 0.00 seconds CSV Export

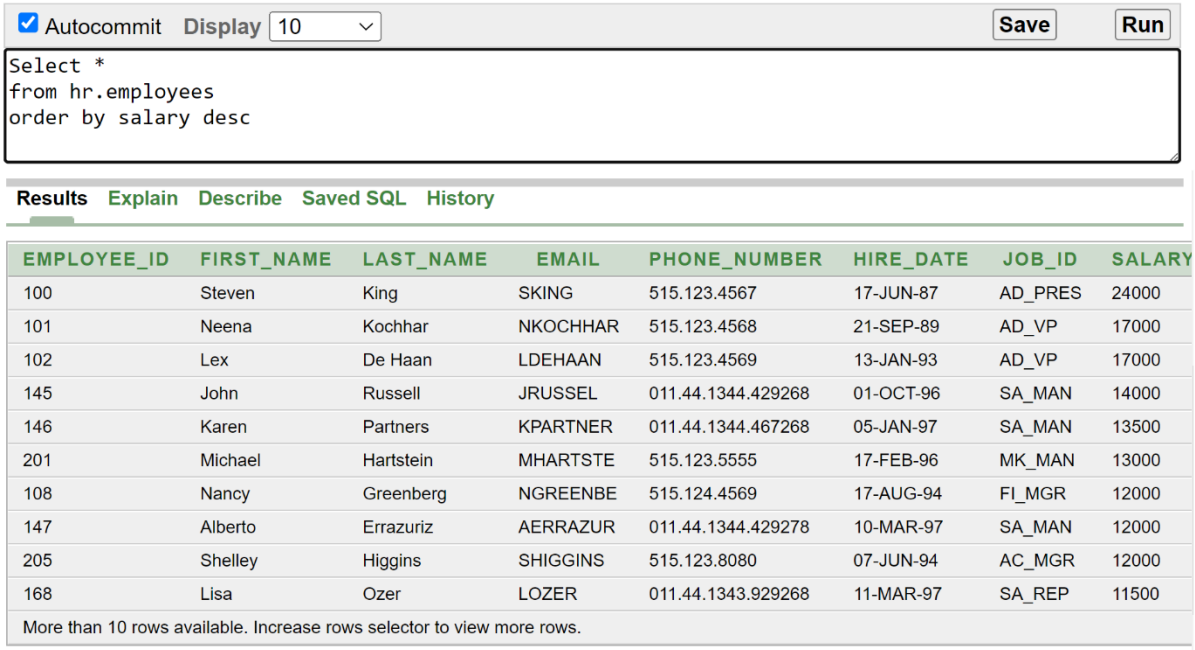
**5. Select all records of employees in the increasing order of salary.**

Results Explain Describe Saved SQL History

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY |
|---|---|---|---|---|---|---|---|
| 132 | TJ | Olson | TJOLSON | 650.124.8234 | 10-APR-99 | ST_CLERK | 2100 |
| 128 | Steven | Markle | SMARKLE | 650.124.1434 | 08-MAR-00 | ST_CLERK | 2200 |
| 136 | Hazel | Philtanker | HPHILTAN | 650.127.1634 | 06-FEB-00 | ST_CLERK | 2200 |
| 127 | James | Landry | JLANDRY | 650.124.1334 | 14-JAN-99 | ST_CLERK | 2400 |
| 135 | Ki | Gee | KGEE | 650.127.1734 | 12-DEC-99 | ST_CLERK | 2400 |
| 119 | Karen | Colmenares | KCOLMENA | 515.127.4566 | 10-AUG-99 | PU_CLERK | 2500 |
| 131 | James | Marlow | JAMRLOW | 650.124.7234 | 16-FEB-97 | ST_CLERK | 2500 |
| 140 | Joshua | Patel | JPATEL | 650.121.1834 | 06-APR-98 | ST_CLERK | 2500 |
| 144 | Peter | Vargas | PVARGAS | 650.121.2004 | 09-JUL-98 | ST_CLERK | 2500 |
| 182 | Martha | Sullivan | MSULLIVA | 650.507.9878 | 21-JUN-99 | SH_CLERK | 2500 |
| More than 10 rows available. Increase rows selector to view more rows. | | | | | | | |

10 rows returned in 0.00 seconds CSV Export

**6. Select all records of employees in the decreasing order of salary.**



Autocommit Display 10 Save Run

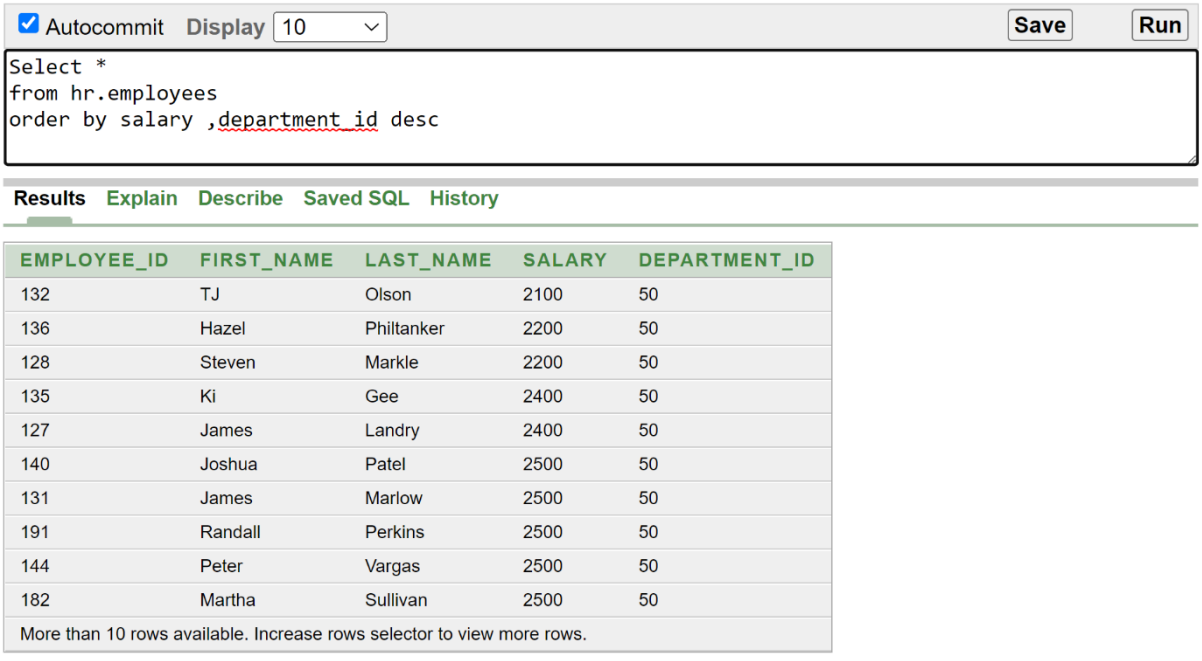
```
Select *
from hr.employees
order by salary desc
```

Results Explain Describe Saved SQL History

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALARY |
|---|---|---|---|---|---|---|---|
| 100 | Steven | King | SKING | 515.123.4567 | 17-JUN-87 | AD_PRES | 24000 |
| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 21-SEP-89 | AD_VP | 17000 |
| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 13-JAN-93 | AD_VP | 17000 |
| 145 | John | Russell | JRUSSEL | 011.44.1344.429268 | 01-OCT-96 | SA_MAN | 14000 |
| 146 | Karen | Partners | KPARTNER | 011.44.1344.467268 | 05-JAN-97 | SA_MAN | 13500 |
| 201 | Michael | Hartstein | MHARTSTE | 515.123.5555 | 17-FEB-96 | MK_MAN | 13000 |
| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 17-AUG-94 | FI_MGR | 12000 |
| 147 | Alberto | Errazuriz | AERRAZUR | 011.44.1344.429278 | 10-MAR-97 | SA_MAN | 12000 |
| 205 | Shelley | Higgins | SHIGGINS | 515.123.8080 | 07-JUN-94 | AC_MGR | 12000 |
| 168 | Lisa | Ozer | LOZER | 011.44.1343.929268 | 11-MAR-97 | SA_REP | 11500 |

More than 10 rows available. Increase rows selector to view more rows.

**7. Select first_name of employees in the increasing order of salary and if salary matches then decreasing order of the department_id.**



Autocommit Display 10 Save Run

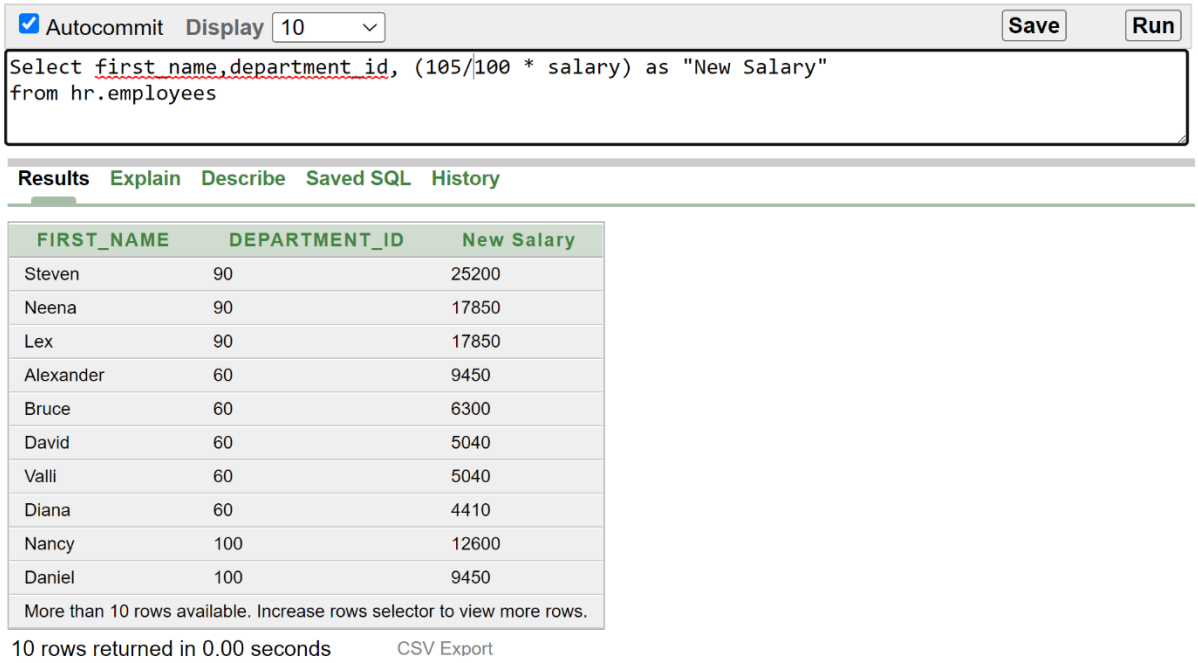
```
Select *
from hr.employees
order by salary ,department_id desc
```

Results Explain Describe Saved SQL History

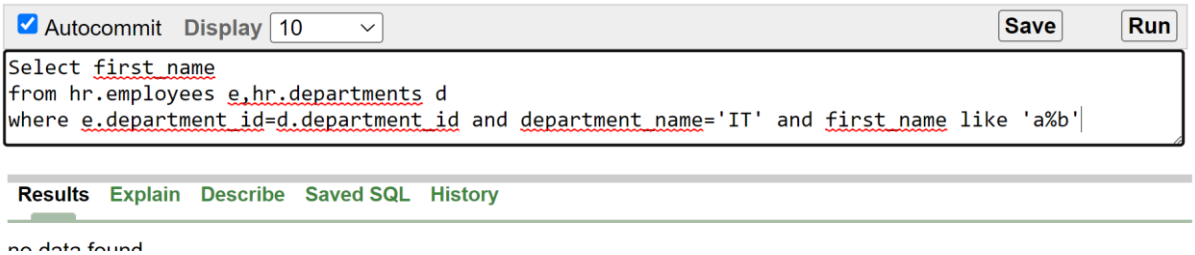
| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | SALARY | DEPARTMENT_ID |
|---|---|---|---|---|
| 132 | TJ | Olson | 2100 | 50 |
| 136 | Hazel | Philtanker | 2200 | 50 |
| 128 | Steven | Markle | 2200 | 50 |
| 135 | Ki | Gee | 2400 | 50 |
| 127 | James | Landry | 2400 | 50 |
| 140 | Joshua | Patel | 2500 | 50 |
| 131 | James | Marlow | 2500 | 50 |
| 191 | Randall | Perkins | 2500 | 50 |
| 144 | Peter | Vargas | 2500 | 50 |
| 182 | Martha | Sullivan | 2500 | 50 |

More than 10 rows available. Increase rows selector to view more rows.

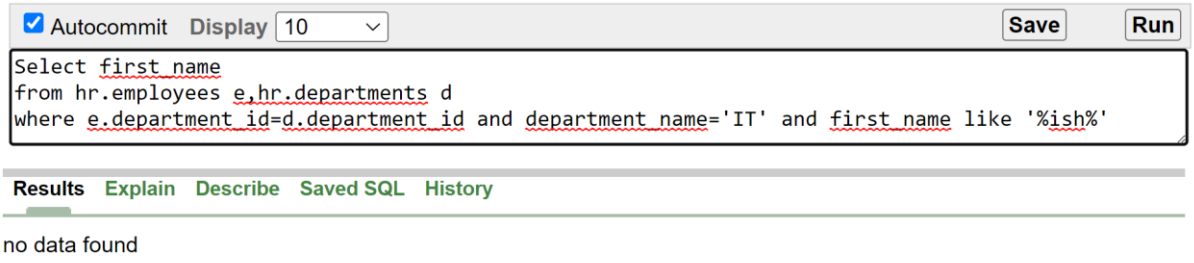
**8. Retrieve first_name and depart_id and the salary of all the puchase managers and display them with modified salary(5% increase in salaryrename the coloumn by new_salary) for there good work.**



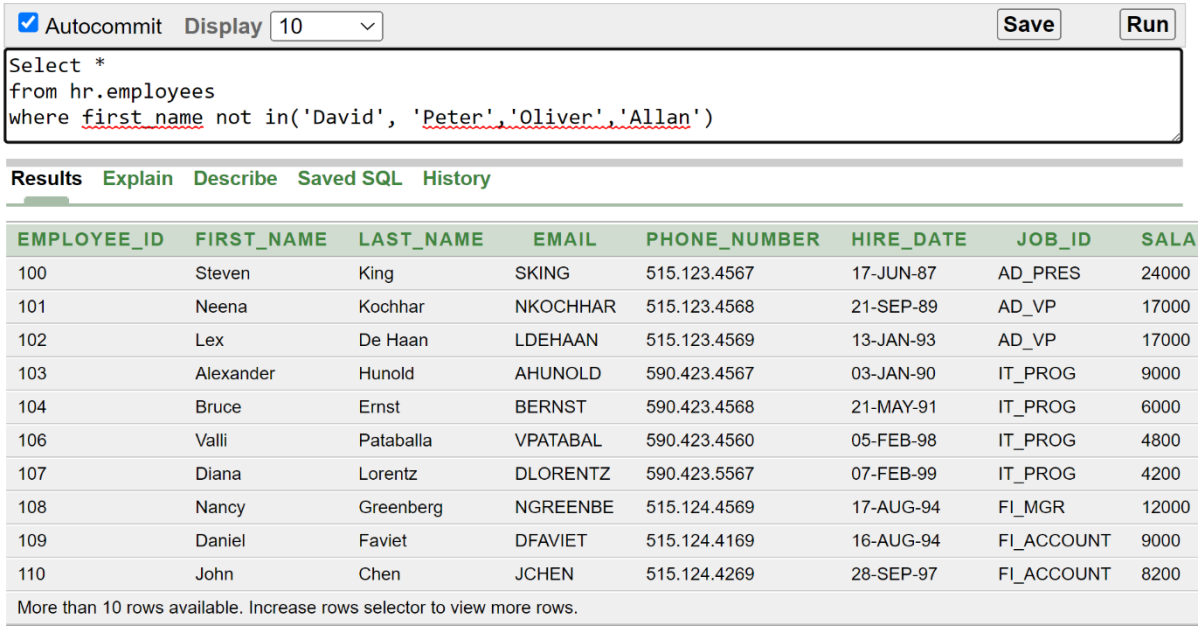

**9. Retrieve first_name of all programmers of IT department whose first name starts with a and ends with b.**




**10. Retrieve first_name of all programmers of IT department whose first name contains a substring 'ish'.**



**11. Retrieve all the records except David, Peter,Oliver,Allan.**



Autocommit Display 10 Save Run

```
Select *
from hr.employees
where first_name not in('David', 'Peter','Oliver','Allan')
```

Results Explain Describe Saved SQL History

| EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER | HIRE_DATE | JOB_ID | SALA |
|---|---|---|---|---|---|---|---|
| 100 | Steven | King | SKING | 515.123.4567 | 17-JUN-87 | AD_PRES | 24000 |
| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 21-SEP-89 | AD_VP | 17000 |
| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 13-JAN-93 | AD_VP | 17000 |
| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 03-JAN-90 | IT_PROG | 9000 |
| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 21-MAY-91 | IT_PROG | 6000 |
| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 05-FEB-98 | IT_PROG | 4800 |
| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 07-FEB-99 | IT_PROG | 4200 |
| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 17-AUG-94 | FI_MGR | 12000 |
| 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 16-AUG-94 | FI_ACCOUNT | 9000 |
| 110 | John | Chen | JCHEN | 515.124.4269 | 28-SEP-97 | FI_ACCOUNT | 8200 |

More than 10 rows available. Increase rows selector to view more rows.

**13. There are four coding errors in this statement. Can you identify them?**

**SELECT employee_id, last_name sal x 12 ANNUAL SALARY**

Ans: - SELECT employee_id, last_name , salary * 12 " Annual Salary" from employees

**14. The following SELECT statement executes successfully: (True / False)**

**SELECT last_name, job_id, salary AS Sal FROM employees;**

Ans: - True.

**15. The following SELECT statement executes successfully: (True / False)**

SELECT * FROM job_grades;

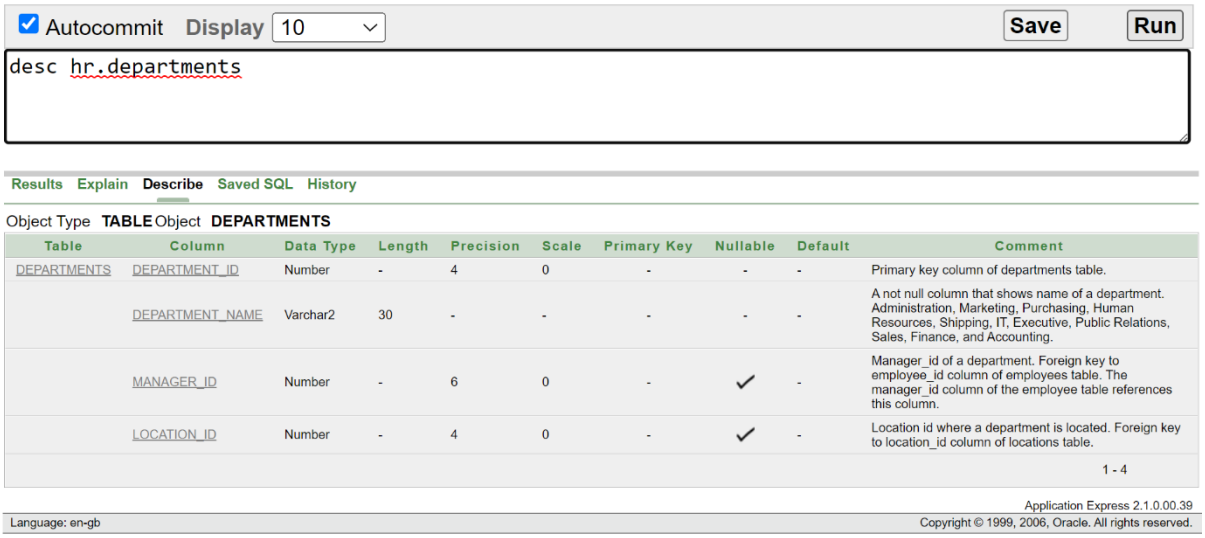
Ans: - True;

**16. There are four coding errors in this statement. Can you identify them?**

**SELECT employee_id, last_name sal x 12 ANNUAL SALARY FROM employees;**

Ans: - SELECT employee_id, last_name , salary * 12 " Annual Salary" from employees

**17. Show the structure of the DEPARTMENTS table. Select all data from the table.**



Autocommit Display 10 Save Run

```
desc hr.departments
```

Results Explain Describe Saved SQL History

Object Type **TABLE** Object **DEPARTMENTS**

| Table | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|---|---|---|---|---|---|---|---|---|---|
| DEPARTMENTS | DEPARTMENT_ID | Number | - | 4 | 0 | - | - | - | Primary key column of departments table. |
| | DEPARTMENT_NAME | Varchar2 | 30 | - | - | - | - | - | A not null column that shows name of a department. Administration, Marketing, Purchasing, Human Resources, Shipping, IT, Executive, Public Relations, Sales, Finance, and Accounting. |
| | MANAGER_ID | Number | - | 6 | 0 | - | ✓ | - | Manager_id of a department. Foreign key to employee_id column of employees table. The manager_id column of the employee table references this column. |
| | LOCATION_ID | Number | - | 4 | 0 | - | ✓ | - | Location id where a department is located. Foreign key to location_id column of locations table. |

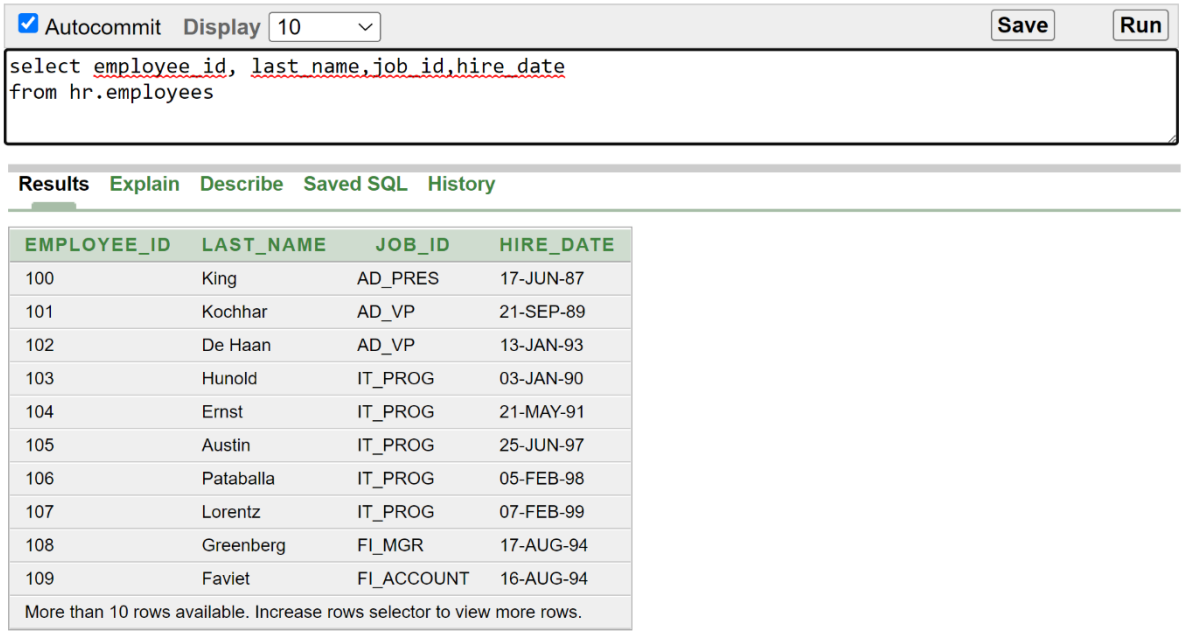
1 - 4

Application Express 2.1.0.00.39

Language: en-gb



**18. Show the structure of the EMPLOYEES table. Create a query to display the last name, job code, hire date, and employee number for each employee, with employee number appearing first.**



Autocommit Display 10 Save Run

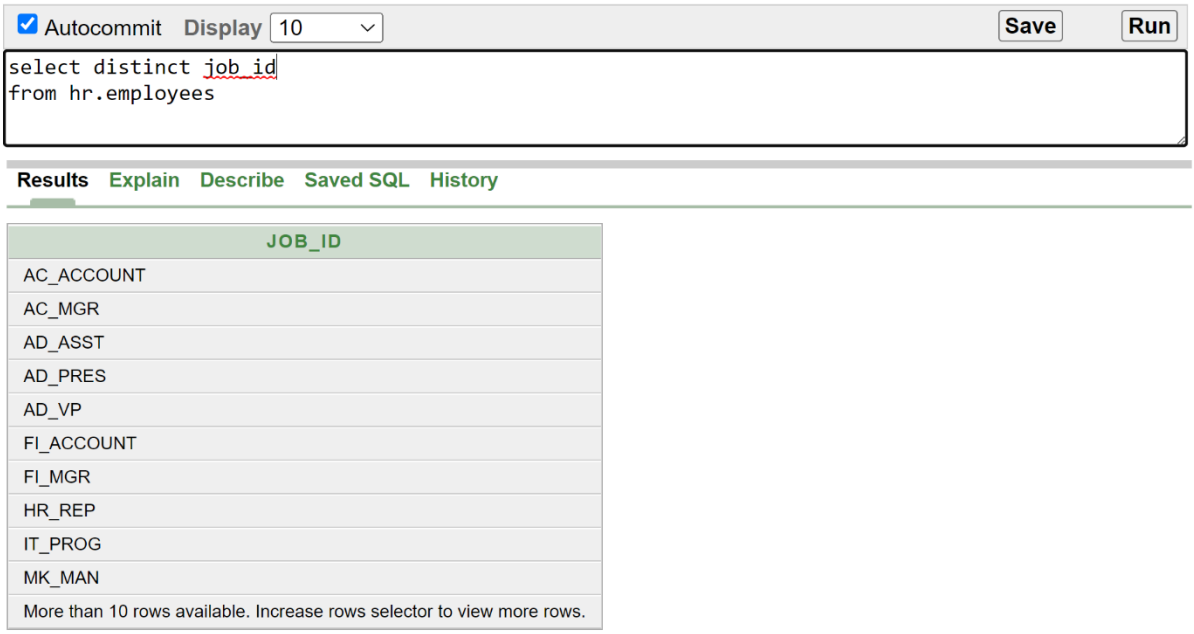
```
select employee_id, last_name,job_id,hire_date
from hr.employees
```

Results Explain Describe Saved SQL History

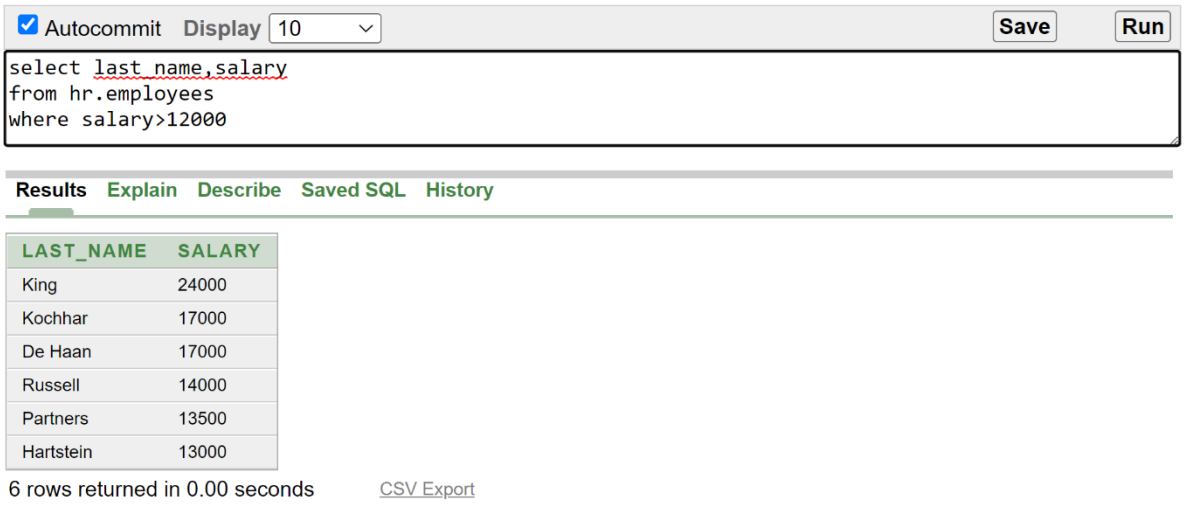
| EMPLOYEE_ID | LAST_NAME | JOB_ID | HIRE_DATE |
|---|---|---|---|
| 100 | King | AD_PRES | 17-JUN-87 |
| 101 | Kochhar | AD_VP | 21-SEP-89 |
| 102 | De Haan | AD_VP | 13-JAN-93 |
| 103 | Hunold | IT_PROG | 03-JAN-90 |
| 104 | Ernst | IT_PROG | 21-MAY-91 |
| 105 | Austin | IT_PROG | 25-JUN-97 |
| 106 | Pataballa | IT_PROG | 05-FEB-98 |
| 107 | Lorentz | IT_PROG | 07-FEB-99 |
| 108 | Greenberg | FI_MGR | 17-AUG-94 |
| 109 | Faviet | FI_ACCOUNT | 16-AUG-94 |

More than 10 rows available. Increase rows selector to view more rows.

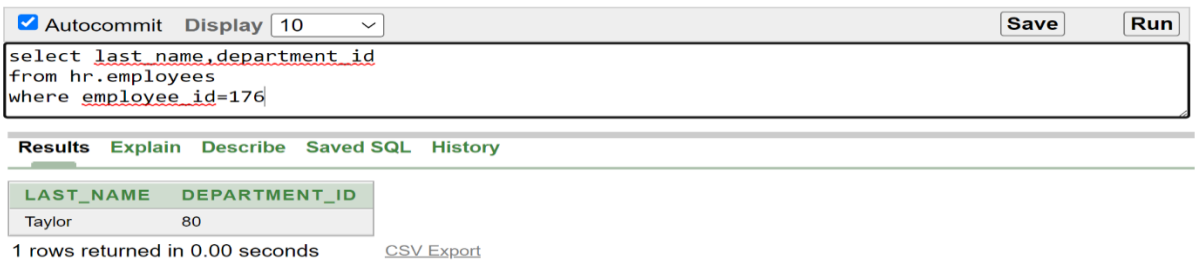
**19. Create a query to display unique job codes from the EMPLOYEES table.**



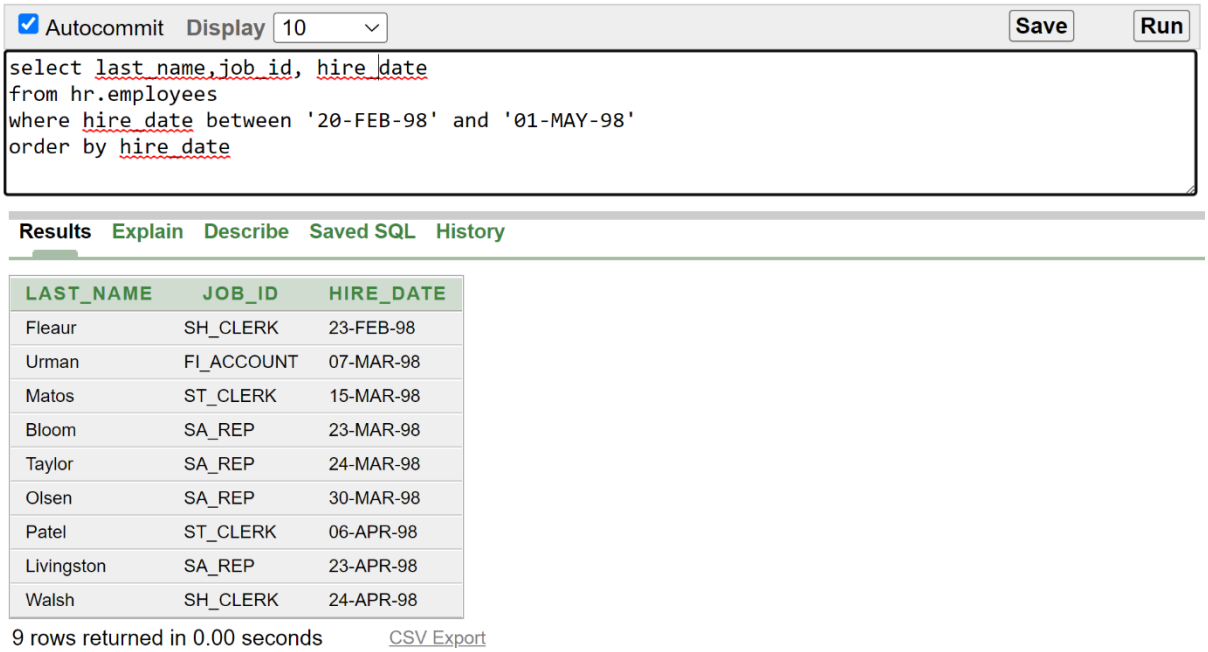

**20. Create a query to display the last name and salary of employees earning more than 12,000.**




**21. Create a query to display the employee last name and department number for employee number 176.**



**22. Display the employee's 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**



Autocommit Display 10 Save Run

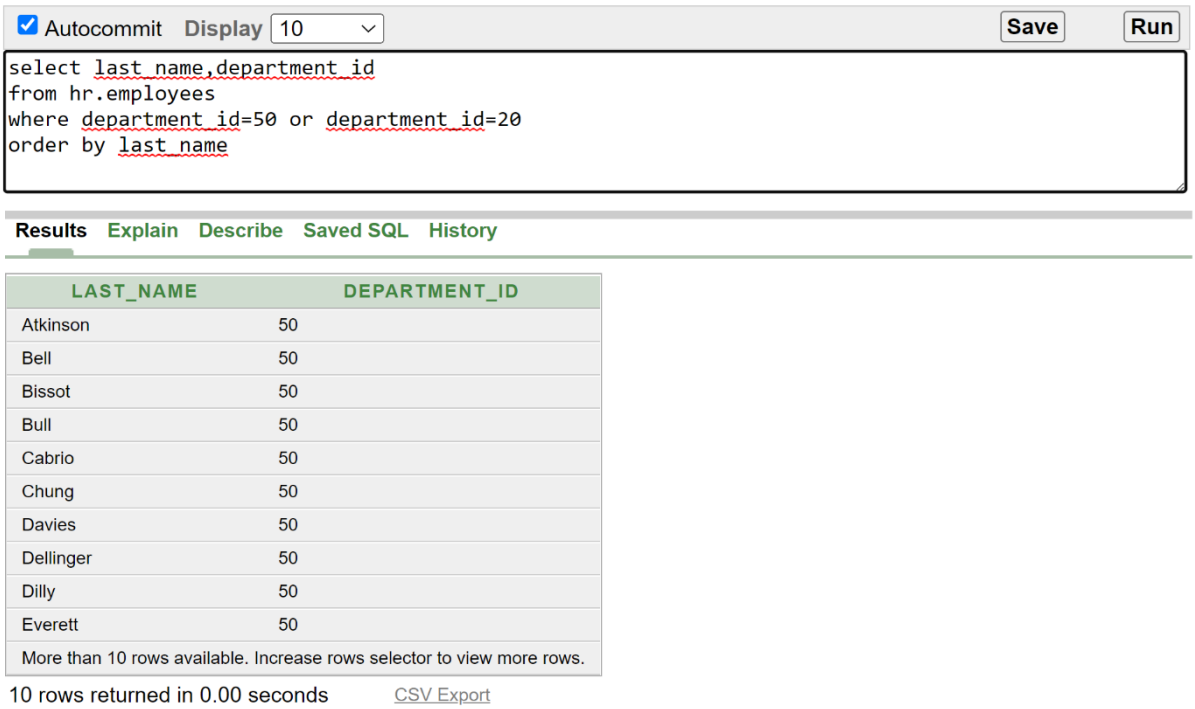
```
select last_name,job_id, hire_date
from hr.employees
where hire_date between '20-FEB-98' and '01-MAY-98'
order by hire_date
```

Results Explain Describe Saved SQL History

| LAST_NAME | JOB_ID | HIRE_DATE |
|---|---|---|
| Fleaur | SH_CLERK | 23-FEB-98 |
| Urman | FI_ACCOUNT | 07-MAR-98 |
| Matos | ST_CLERK | 15-MAR-98 |
| Bloom | SA_REP | 23-MAR-98 |
| Taylor | SA_REP | 24-MAR-98 |
| Olsen | SA_REP | 30-MAR-98 |
| Patel | ST_CLERK | 06-APR-98 |
| Livingston | SA_REP | 23-APR-98 |
| Walsh | SH_CLERK | 24-APR-98 |

9 rows returned in 0.00 seconds CSV Export

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



Autocommit Display 10 Save Run

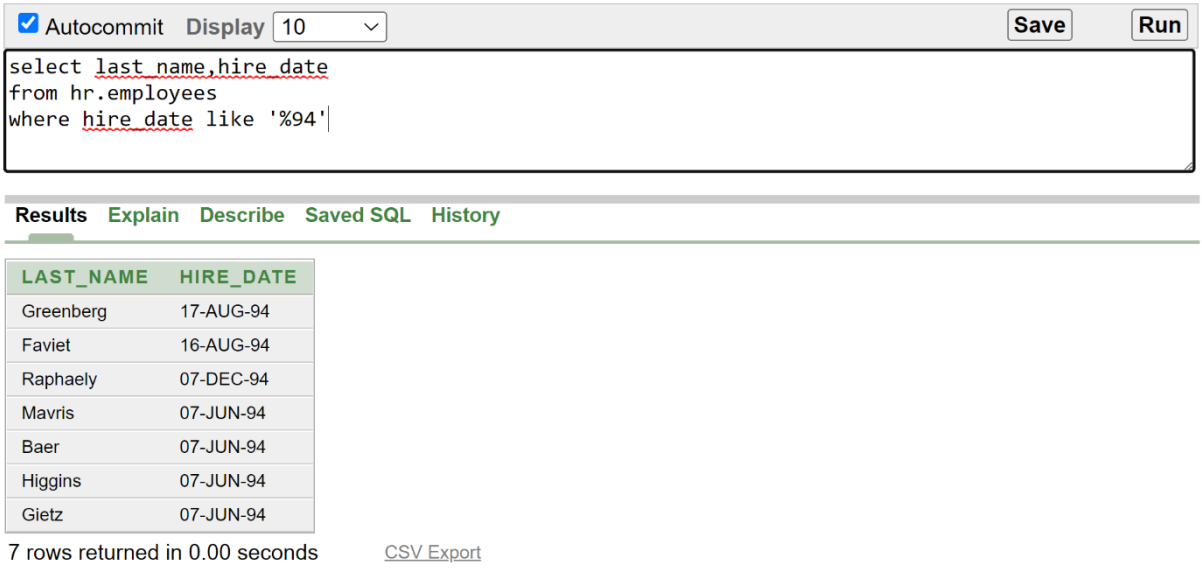
```
select last_name,department_id
from hr.employees
where department_id=50 or department_id=20
order by last_name
```

Results Explain Describe Saved SQL History

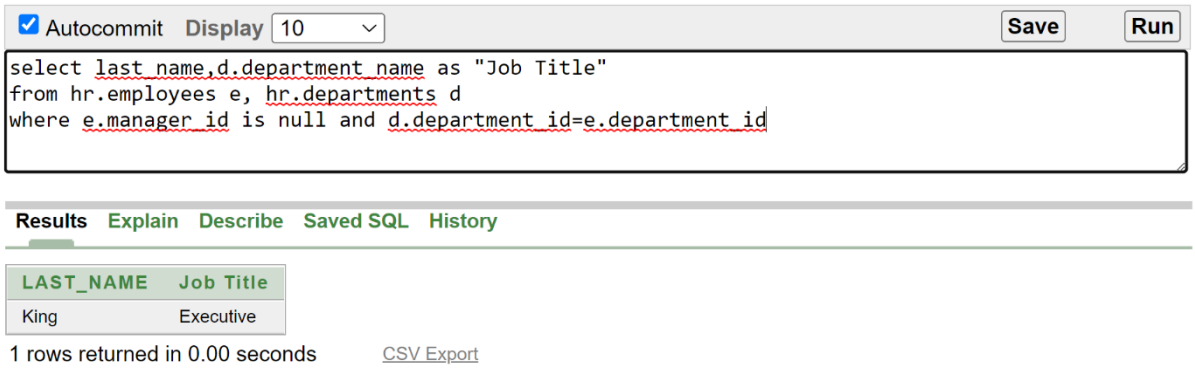
| LAST_NAME | DEPARTMENT_ID |
|---|---|
| Atkinson | 50 |
| Bell | 50 |
| Bissot | 50 |
| Bull | 50 |
| Cabrio | 50 |
| Chung | 50 |
| Davies | 50 |
| Dellinger | 50 |
| Dilly | 50 |
| Everett | 50 |
| More than 10 rows available. Increase rows selector to view more rows. | |

10 rows returned in 0.00 seconds CSV Export

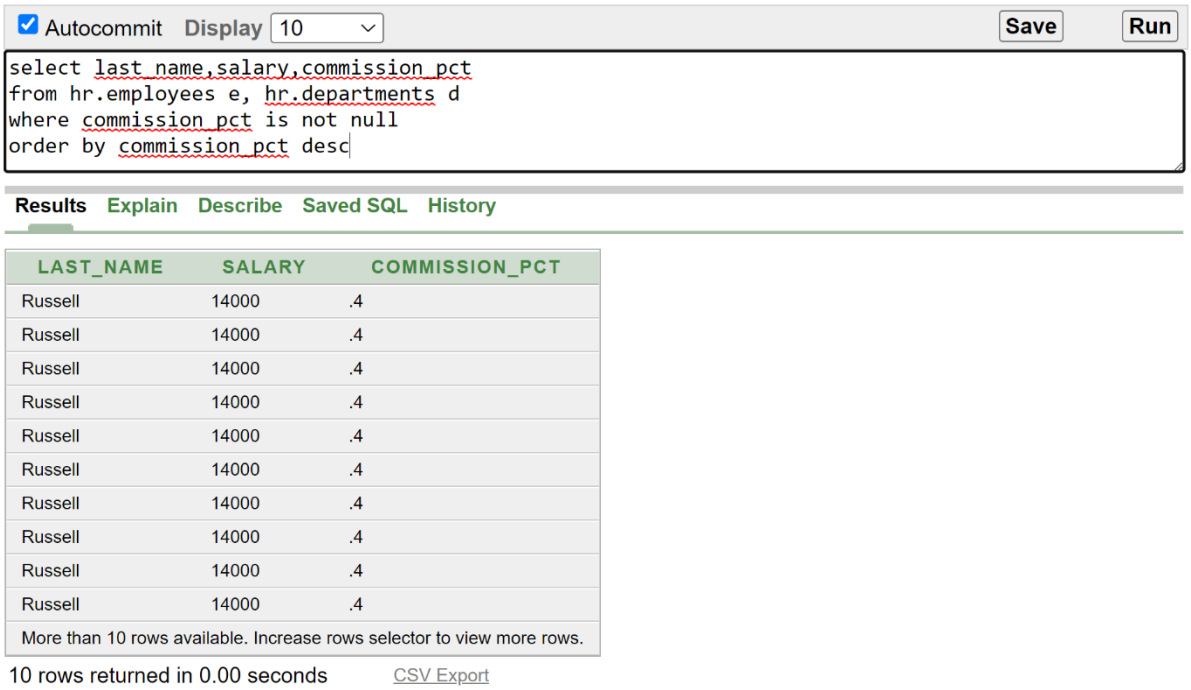
**25. Display the last name and hire date of every employee who was hired in 1994.**




**26. Display the last name and job title (department_name) of all employees who do not have a manager.**



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



Autocommit Display 10 Save Run

```
select last_name,salary,commission_pct
from hr.employees e, hr.departments d
where commission_pct is not null
order by commission_pct desc
```

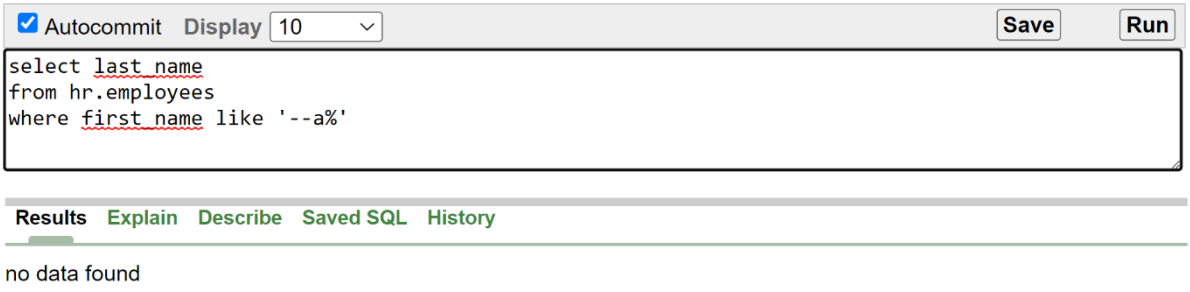
Results Explain Describe Saved SQL History

| LAST_NAME | SALARY | COMMISSION_PCT |
|---|---|---|
| Russell | 14000 | .4 |
| Russell | 14000 | .4 |
| Russell | 14000 | .4 |
| Russell | 14000 | .4 |
| Russell | 14000 | .4 |
| Russell | 14000 | .4 |
| Russell | 14000 | .4 |
| Russell | 14000 | .4 |
| Russell | 14000 | .4 |
| Russell | 14000 | .4 |

More than 10 rows available. Increase rows selector to view more rows.

10 rows returned in 0.00 seconds CSV Export

**28. Display the last names of all employees where the third letter of the first_name is an a.**



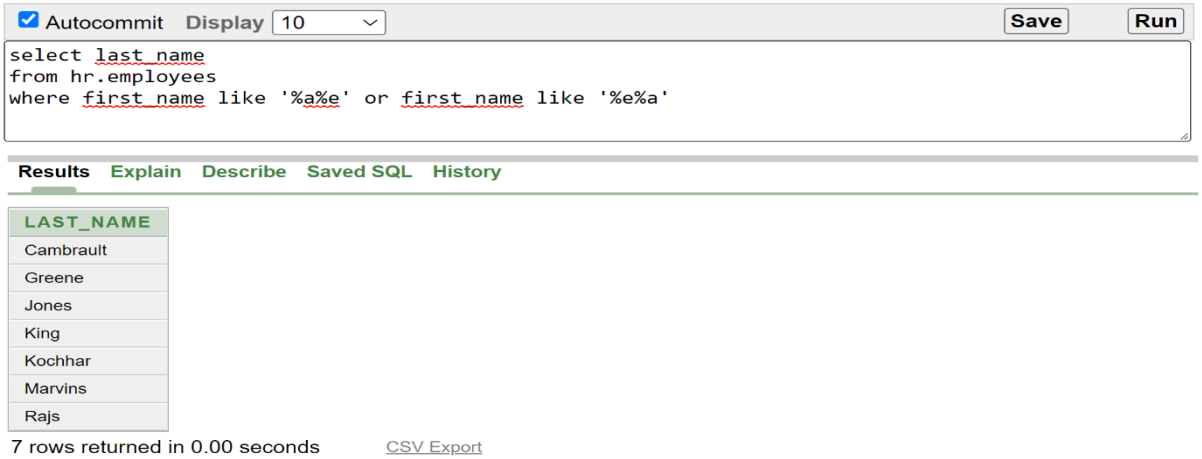
Autocommit Display 10 Save Run

```
select last_name
from hr.employees
where first_name like '--a%'
```

Results Explain Describe Saved SQL History

no data found

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



Autocommit Display 10 Save Run

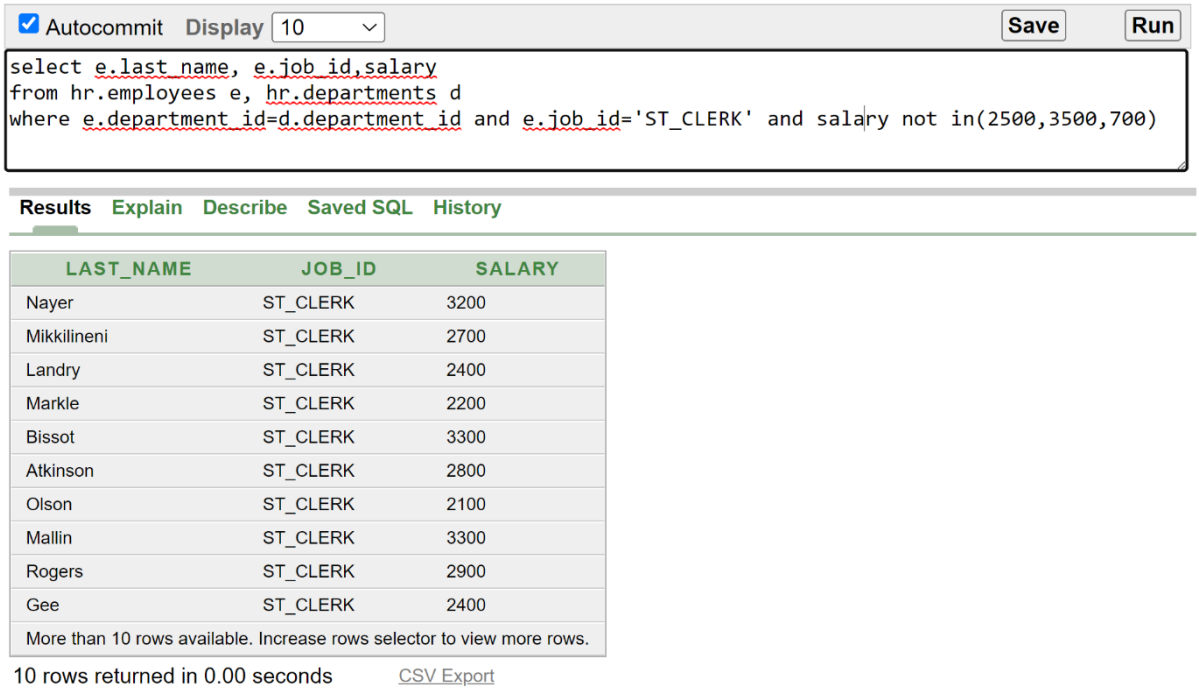
```
select last_name
from hr.employees
where first_name like '%a%e' or first_name like '%e%a'
```

Results Explain Describe Saved SQL History

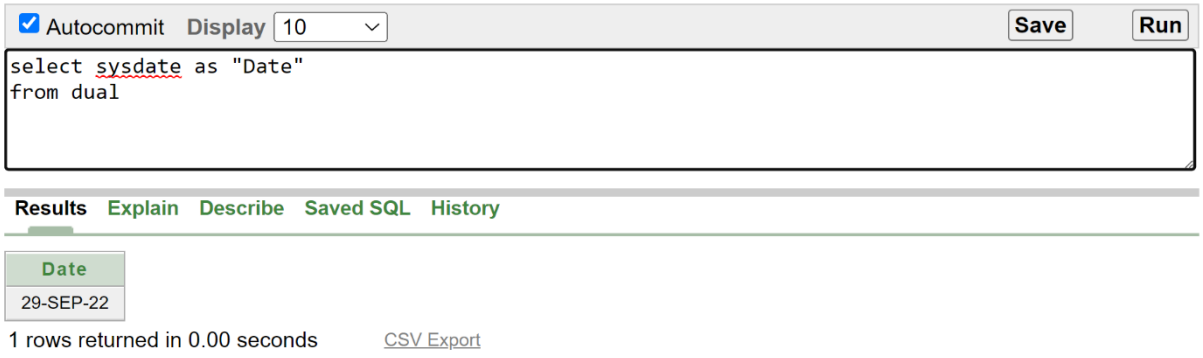
| LAST_NAME |
|---|
| Cambrault |
| Greene |
| Jones |
| King |
| Kochhar |
| Marvins |
| Rajs |

7 rows returned in 0.00 seconds CSV Export

**30. Display the last name, job, and salary for all employees whose job is sales representative or stock clerk and whose salary is not equal to 2,500, 3,500, or 7,000.**




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



**35. List the first_name,location id, hire date, job id of all the managers**

Autocommit Display 10 Save Run

```
select m.first_name, d.location_id,m.hire_date,m.job_id
from hr.employees e, hr.employees m, hr. departments d
where e.department_id=m.department_id and e.employee_id=m.manager_id
```

Results Explain Describe Saved SQL History

| FIRST_NAME | LOCATION_ID | HIRE_DATE | JOB_ID |
|---|---|---|---|
| Lex | 1700 | 13-JAN-93 | AD_VP |
| Neena | 1700 | 21-SEP-89 | AD_VP |
| Diana | 1700 | 07-FEB-99 | IT_PROG |
| Valli | 1700 | 05-FEB-98 | IT_PROG |
| David | 1700 | 25-JUN-97 | IT_PROG |
| Bruce | 1700 | 21-MAY-91 | IT_PROG |
| Luis | 1700 | 07-DEC-99 | FI_ACCOUNT |
| Jose Manuel | 1700 | 07-MAR-98 | FI_ACCOUNT |
| Ismael | 1700 | 30-SEP-97 | FI_ACCOUNT |
| John | 1700 | 28-SEP-97 | FI_ACCOUNT |

More than 10 rows available. Increase rows selector to view more rows.