**ASSIGNMENT 3**

|  |  |
| --- | --- |
| NAME | KASHAN HUMAYUN |
| SAP | **24773** |
| CLASS | **BSCS** |
| SECTION | **4-B** |
|  |  |
| SUBMITTEDN TO: | **QAZI SHUJJAH** |

**FACULTY OF COMPUTING**

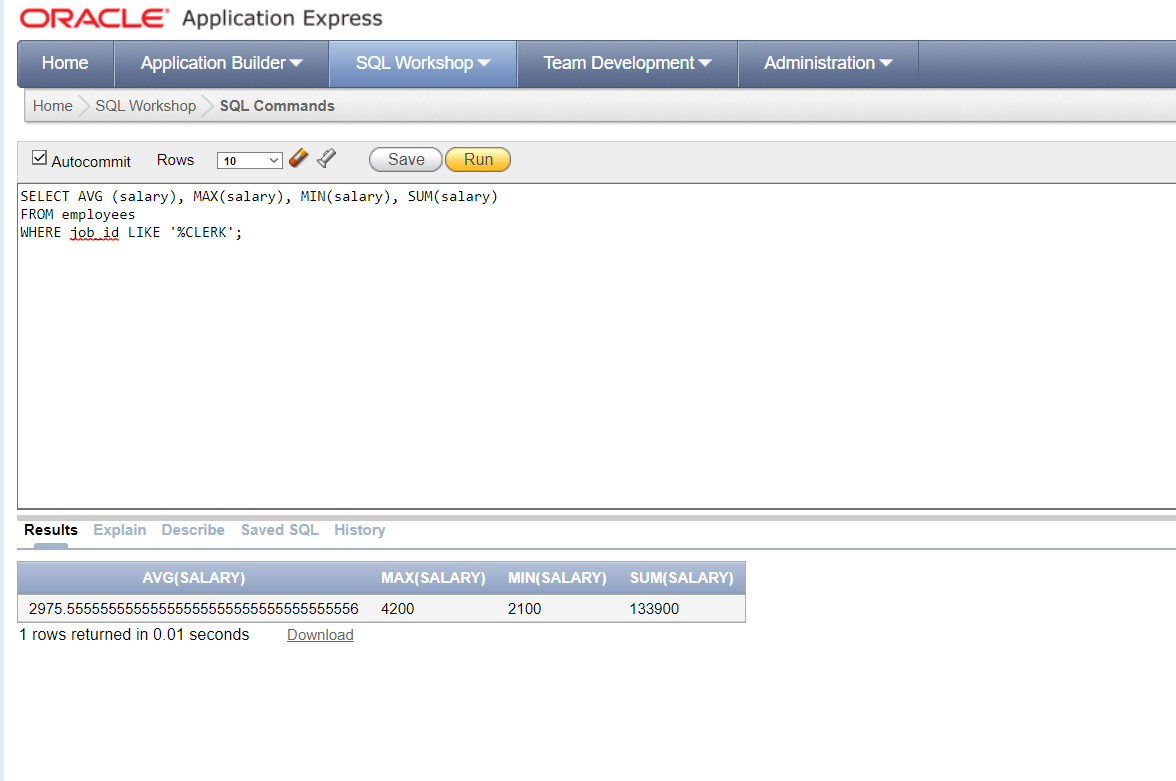
**RIPHAH INTERNATION UNIVERSITY, ISLAMABAD CAMPUS**

**1. You are required to read the lab manual and implement all the queries mentioned in the manual. (4 Marks)**

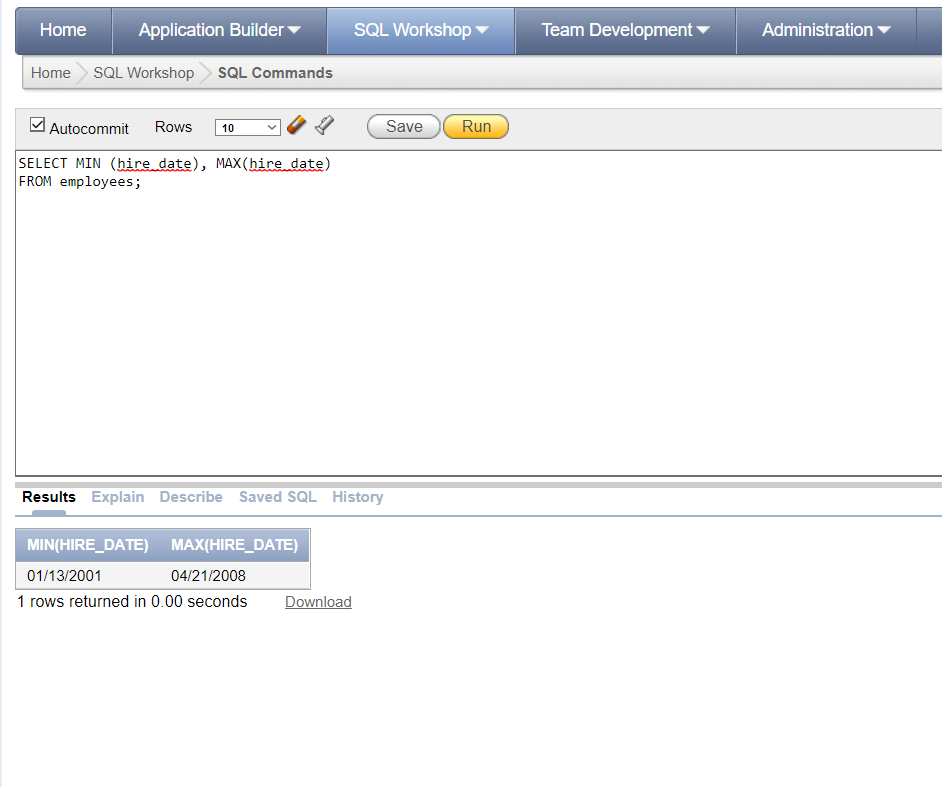
SELECT AVG (salary), MAX(salary), MIN(salary), SUM(salary)

FROM employees

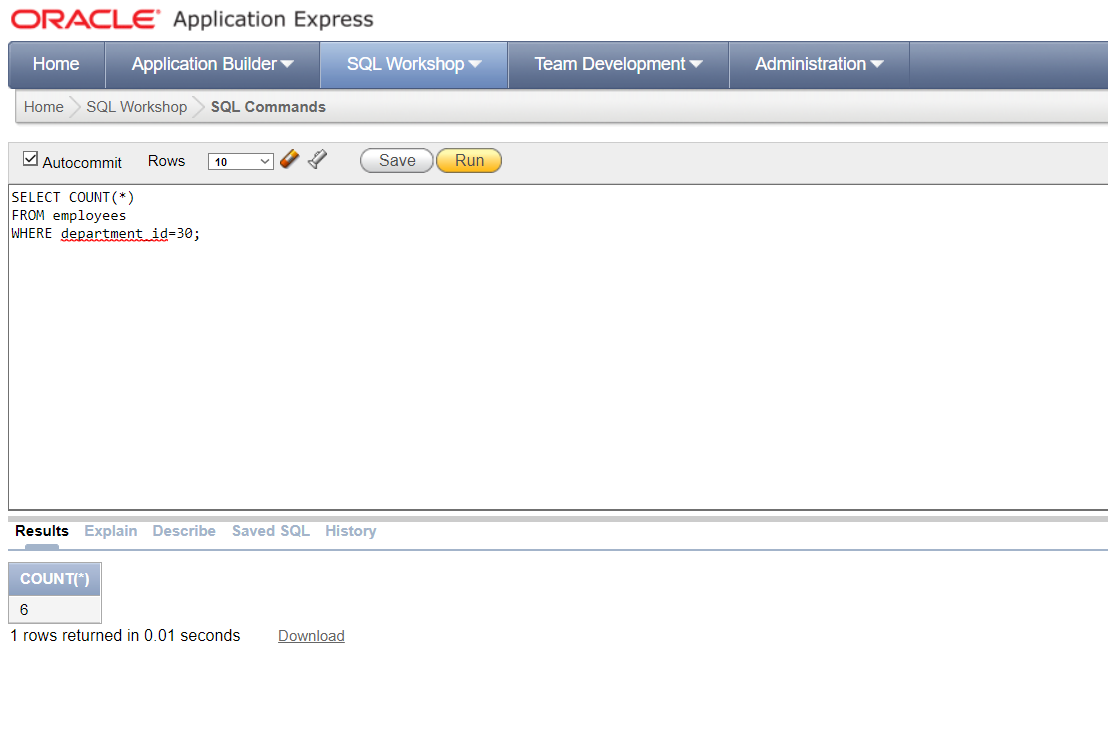
WHERE job\_id LIKE '%CLERK';



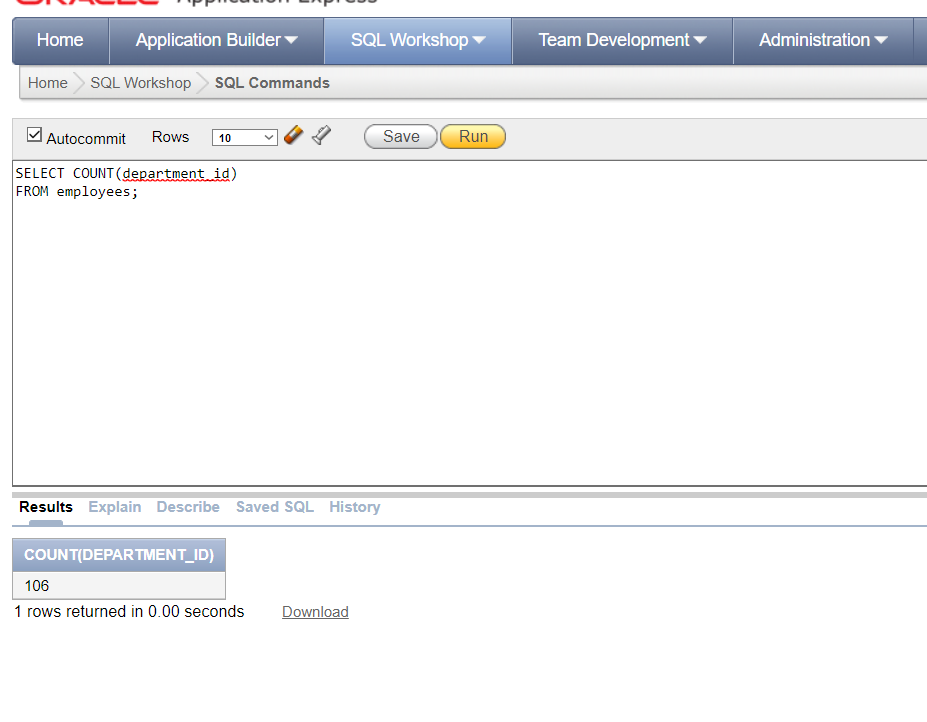
SELECT MIN (hire\_date), MAX(hire\_date) FROM employees;



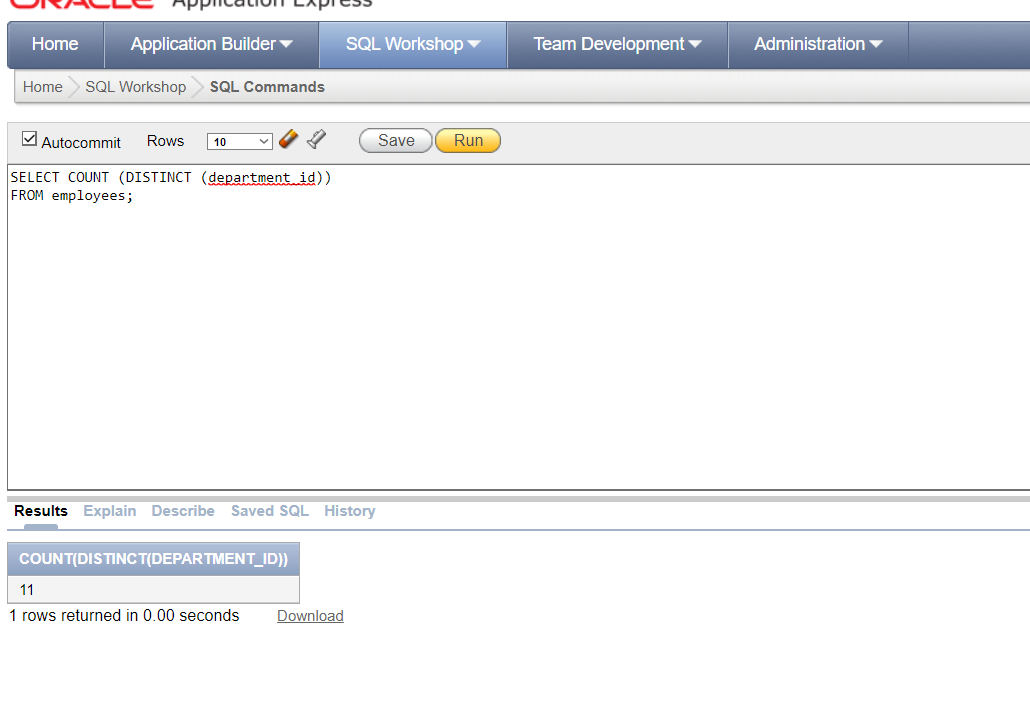
SELECT COUNT(\*) FROM employees WHERE department\_id=30;



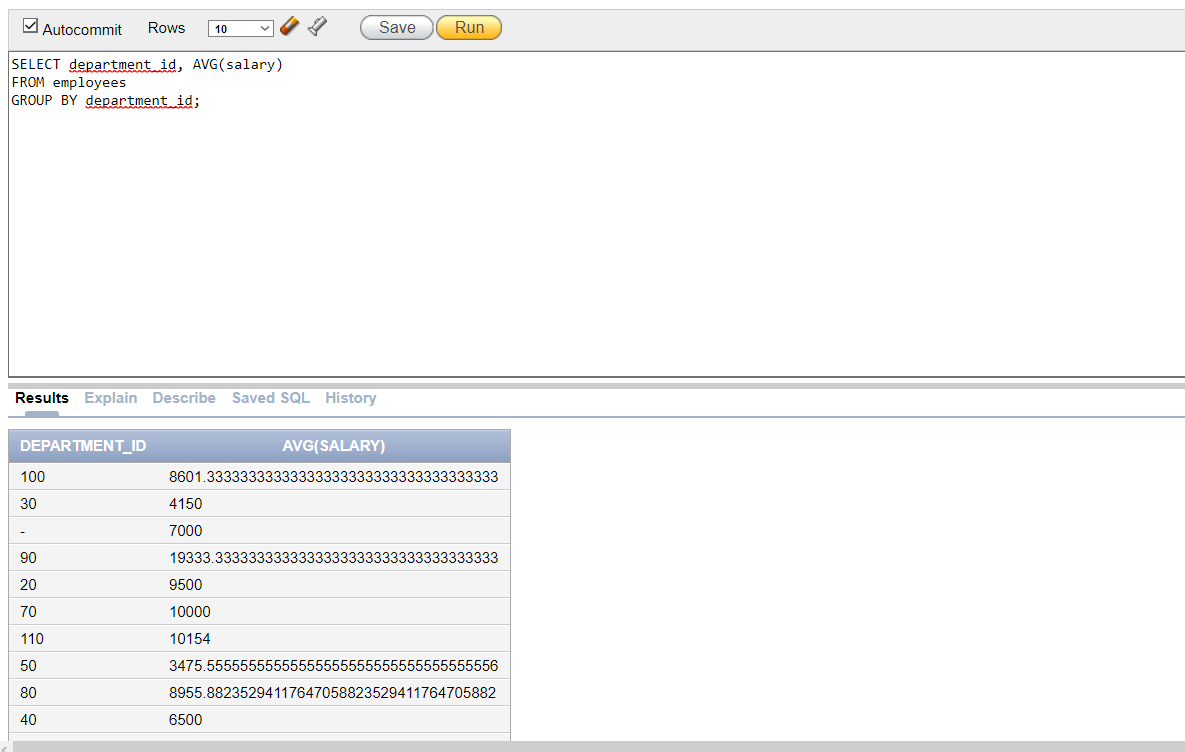
SELECT COUNT(department\_id) FROM employees;



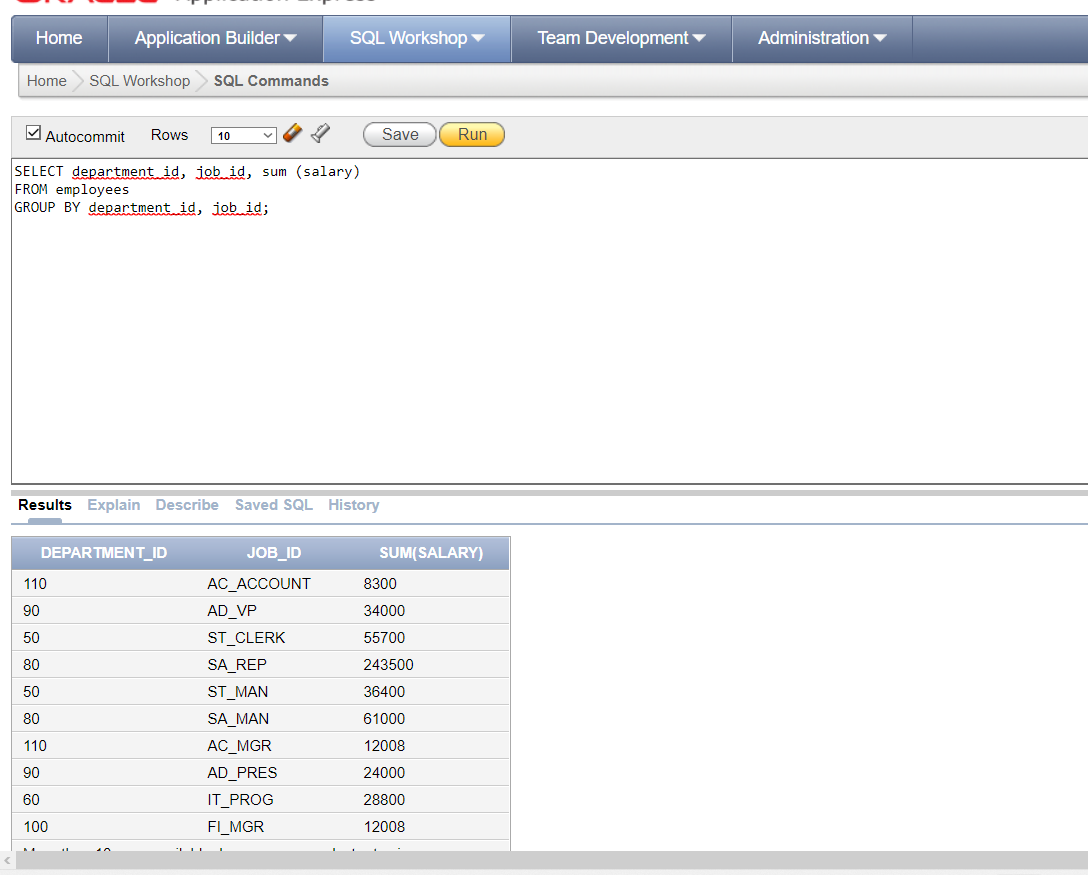
SELECT COUNT (DISTINCT (department\_id)) FROM employees;



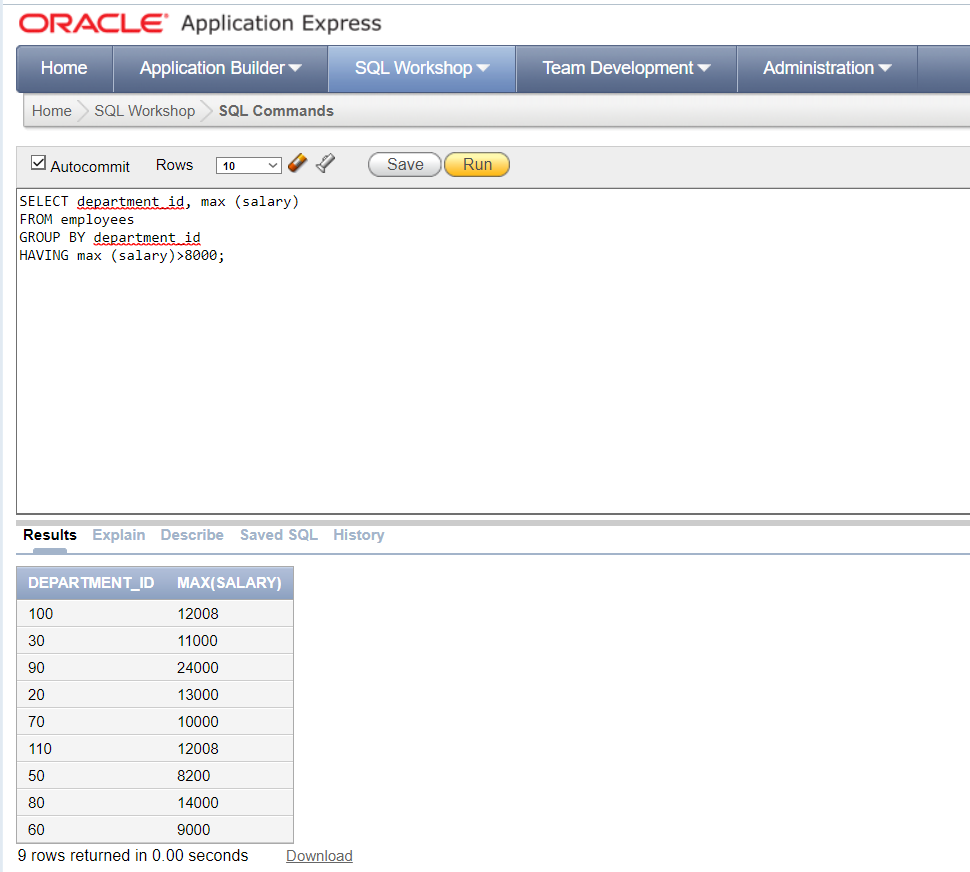
SELECT department\_id, AVG(salary) FROM employees GROUP BY department\_id;



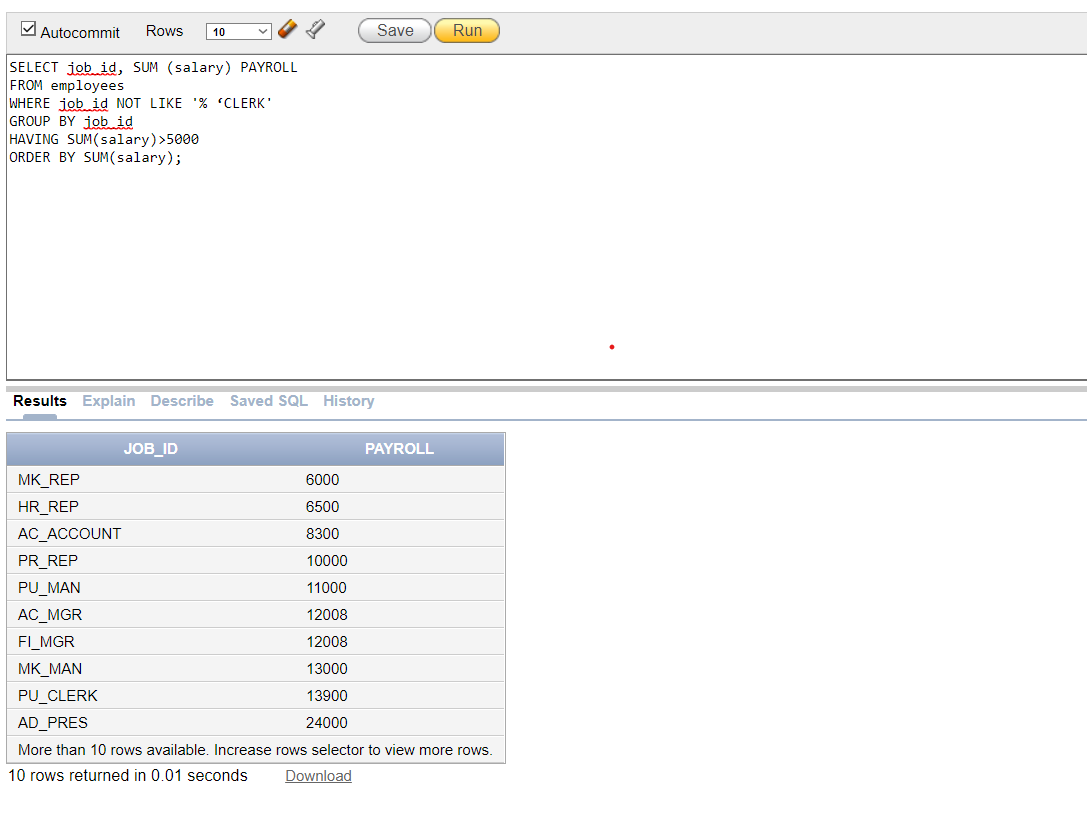
SELECT department\_id, job\_id, sum (salary) FROM employees GROUP BY department\_id, job\_id;



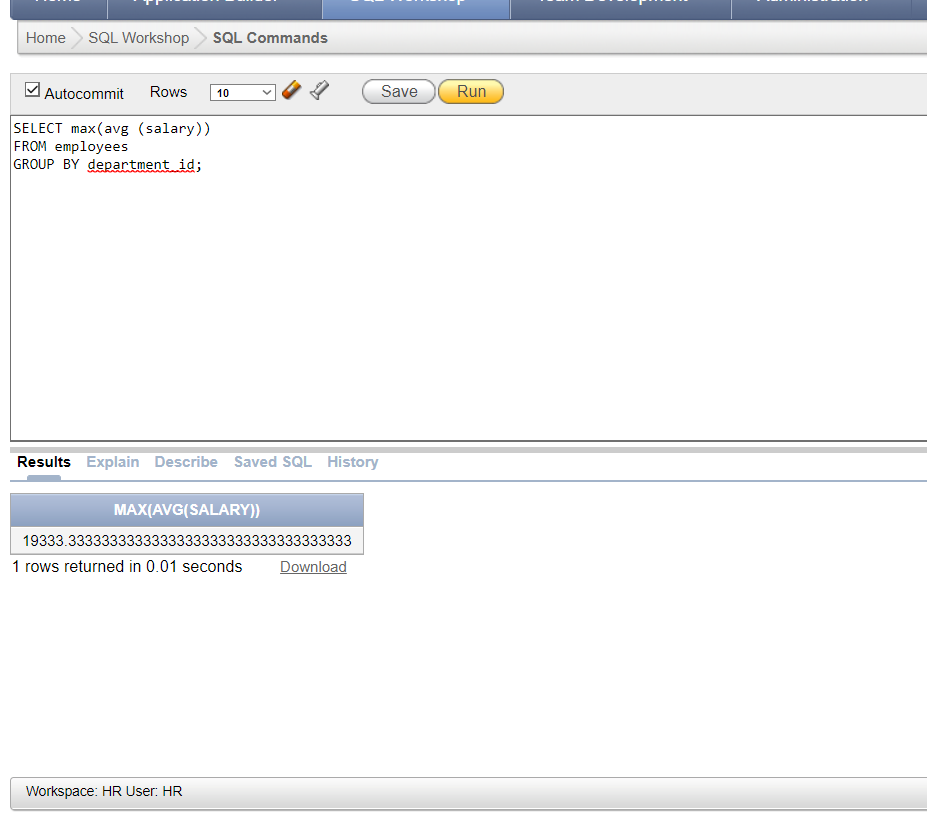
SELECT department\_id, max (salary) FROM employees GROUP BY department\_id HAVING max (salary)>8000;



SELECT job\_id, SUM (salary) PAYROLL FROM employees WHERE job\_id NOT LIKE '% ‘CLERK' GROUP BY job\_id HAVING SUM(salary)>5000 ORDER BY SUM(salary);



SELECT max(avg (salary)) FROM employees GROUP BY department\_id;

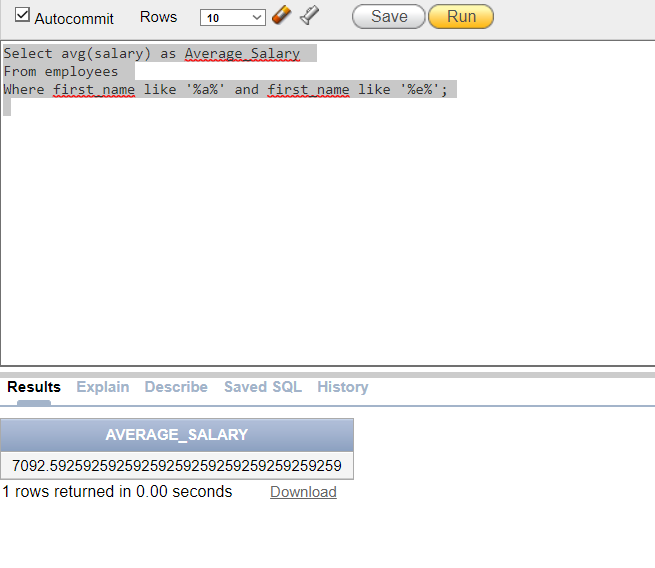


**2. Show the average salary of all those employees whose first\_name contains 'a' and 'e'; (3 Marks)**

Select avg(salary) as Average\_Salary

From employees

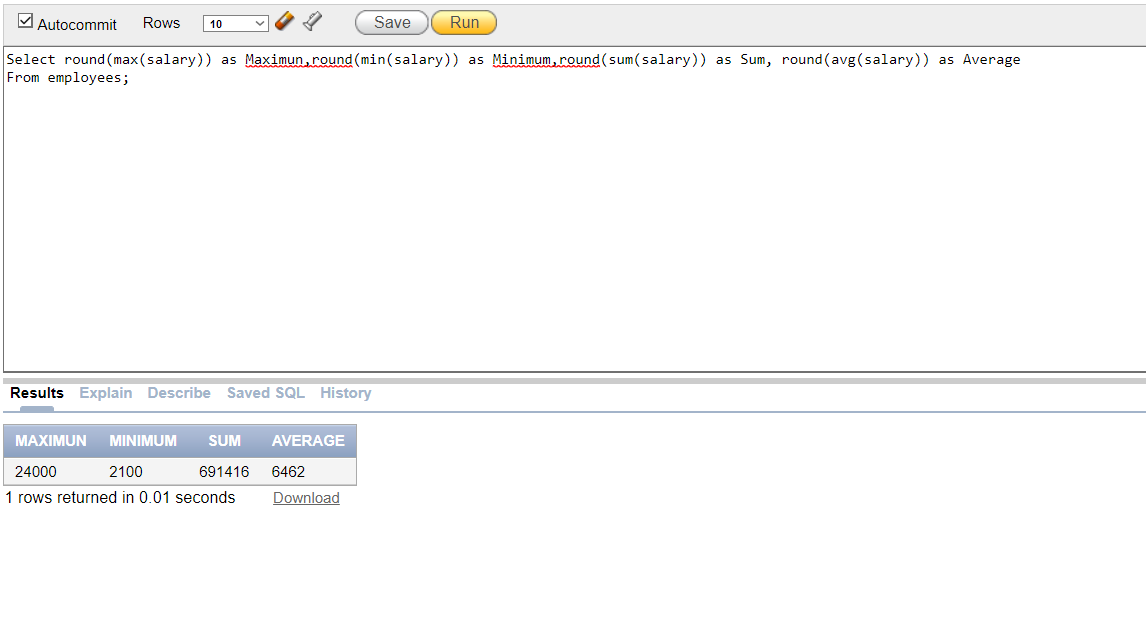
Where first\_name like '%a%' and first\_name like '%e%';



**3. Display the highest, lowest, sum, and average salary of all employees. Label the columns Maximum, Minimum, Sum, and Average, respectively. Round your results up to the two decimal position. (3 Marks)**

Select round(max(salary)) as Maximun,round(min(salary)) as Minimum,round(sum(salary)) as Sum, round(avg(salary)) as Average

From employees;

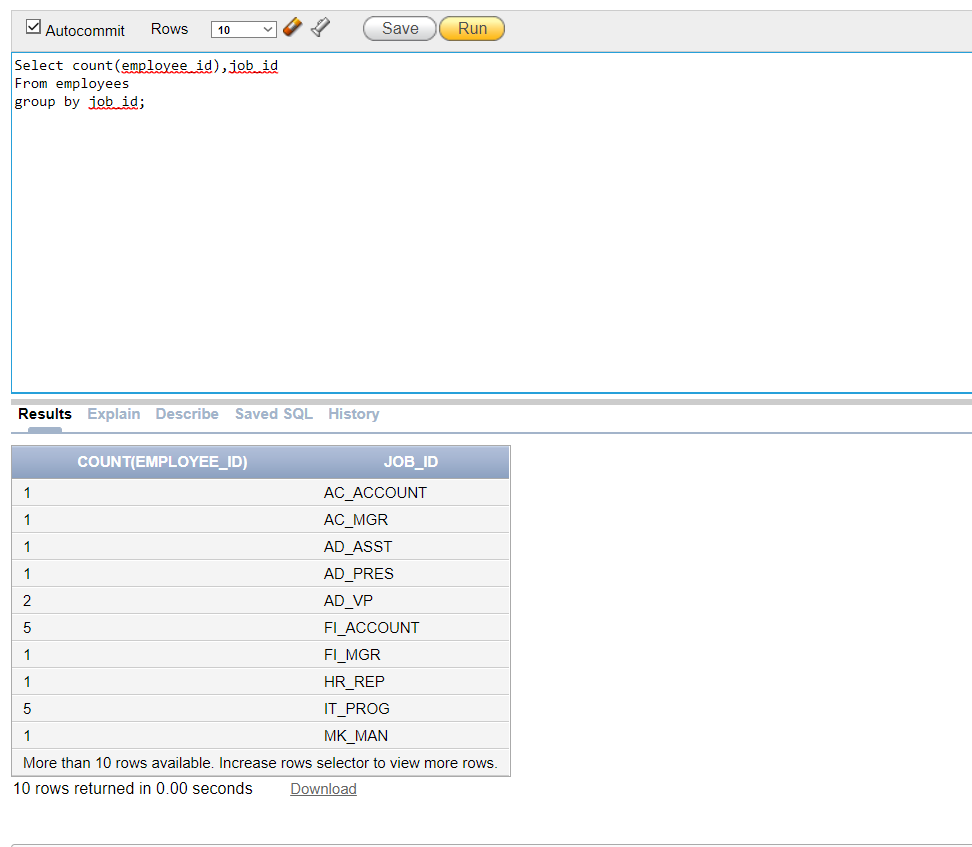


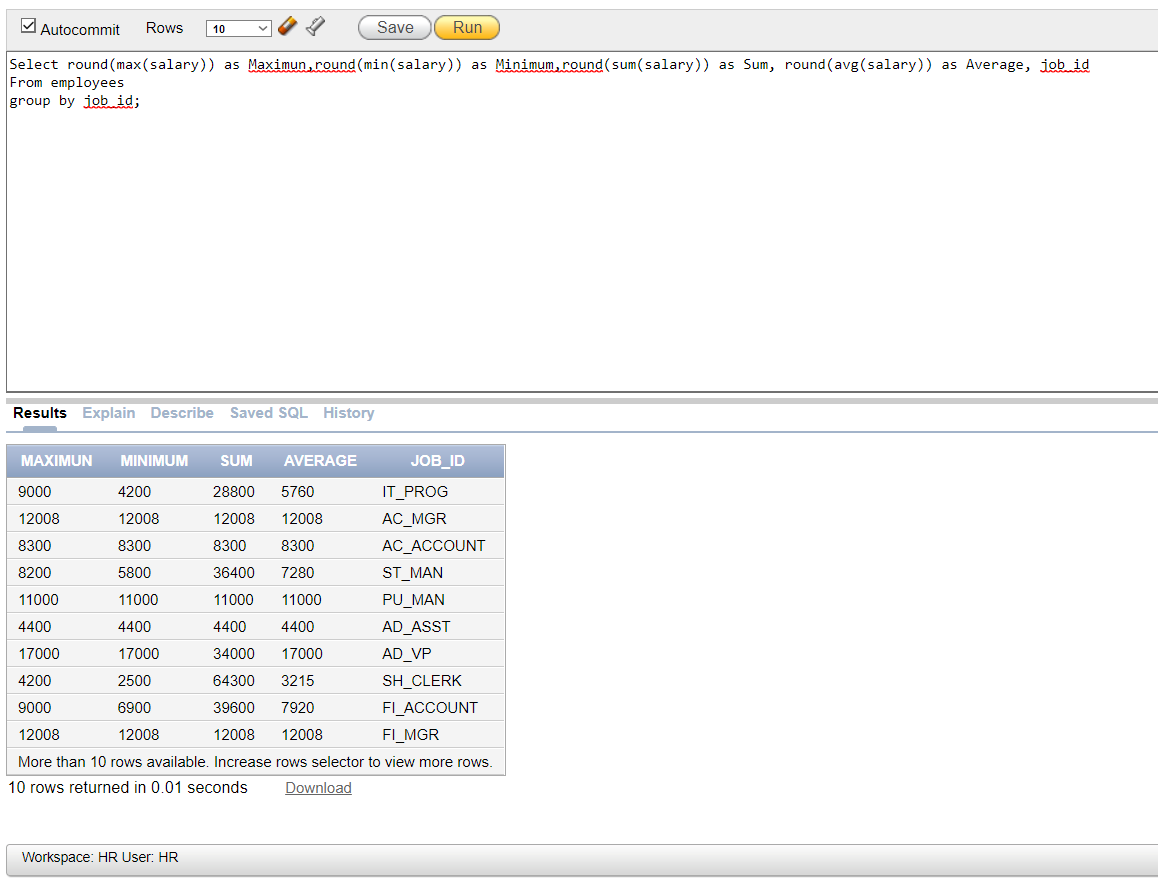
**4. Modify the above questions to display the minimum, maximum, sum,** **and average salary for each job type. ( 3 marks)**

Select round(max(salary)) as Maximun,round(min(salary)) as Minimum,round(sum(salary)) as Sum, round(avg(salary)) as Average,job\_id

From employees

Group by job\_id;





5**. Write a query to display the number of people with the same job. (2 Marks).**