**DEEN DAYAL UPADHYAYA COLLEGE**

**(UNIVERSITY OF DELHI)**

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**PRACTICAL FILE**

**(DATABASE MANAGEMENT SYSTEMS )**

**NAME :** SAKSHAM NEGI

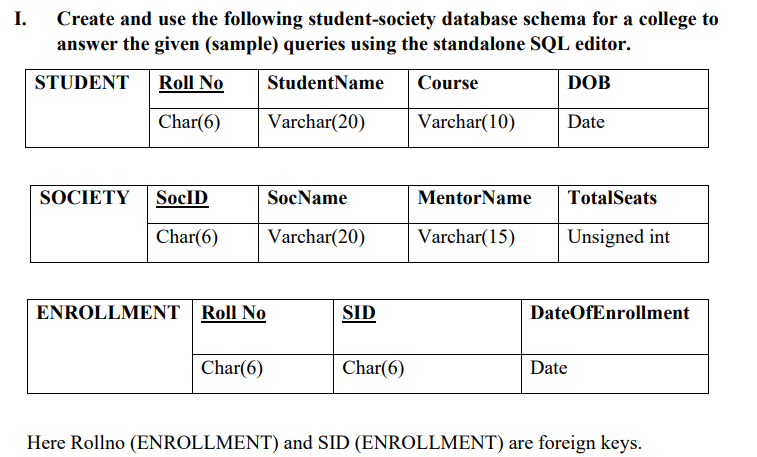
**COURSE :** B Sc(H) COMPUTER SCIENCE

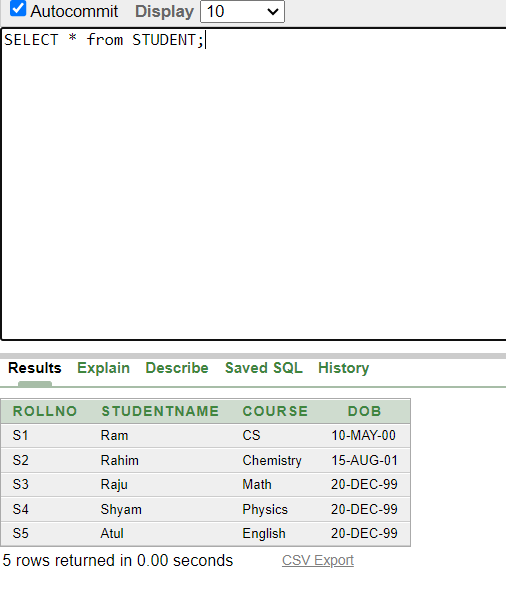
**ROLL NO. :** 22HCS4146

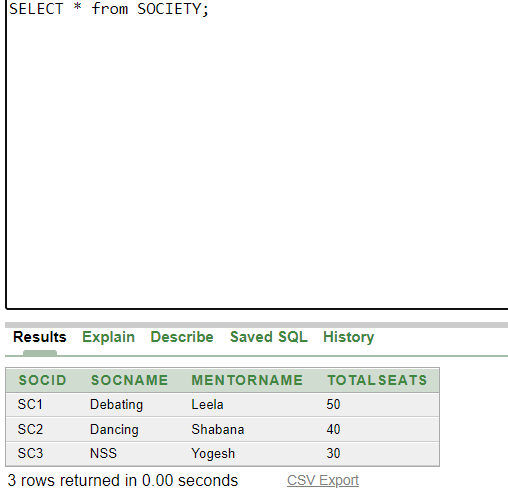
**SEMESTER :** IV

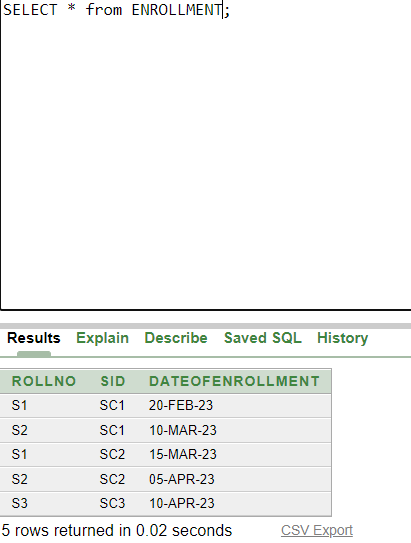
**SUBMITTED TO:**

MRS. SHWETA WADHERA

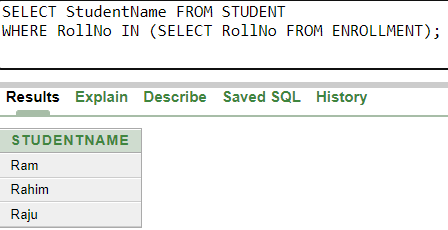
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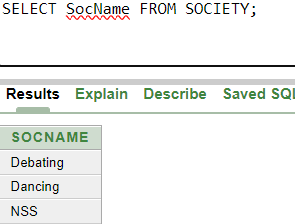
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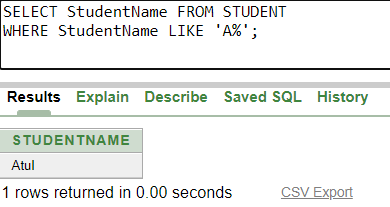
1. **Retrieve names of students enrolled in any society.**

****

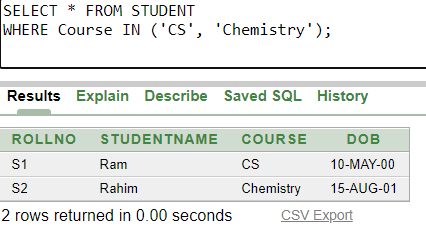
1. **Retrieve all society names.**

****

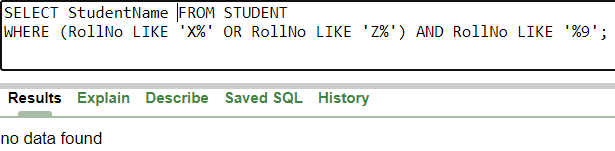
1. **Retrieve students' names starting with letter ‘A’.**

****

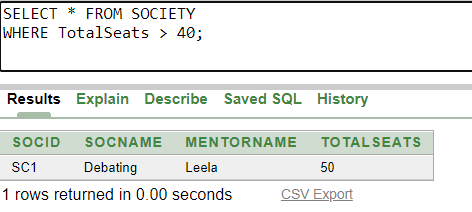
1. **Retrieve students' details studying in courses ‘computer science’ or ‘chemistry’.**

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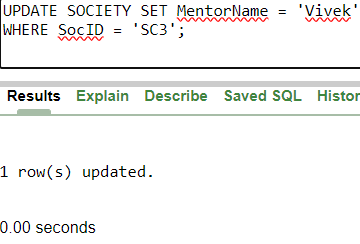
1. **Retrieve students’ names whose roll no either starts with ‘X’ or ‘Z’ and ends with ‘9’**

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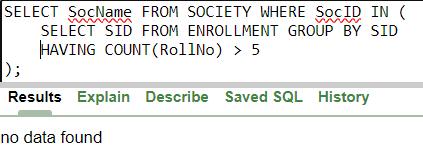
1. **Find society details with more than N TotalSeats where N is to be input by the user**

****

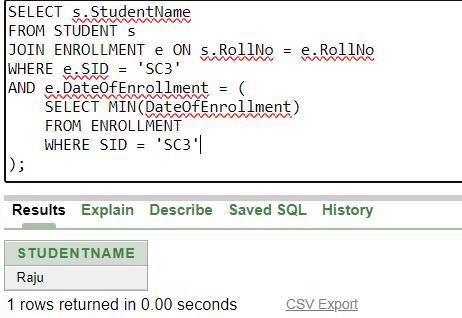
1. **Update society table for mentor name of a specific society**

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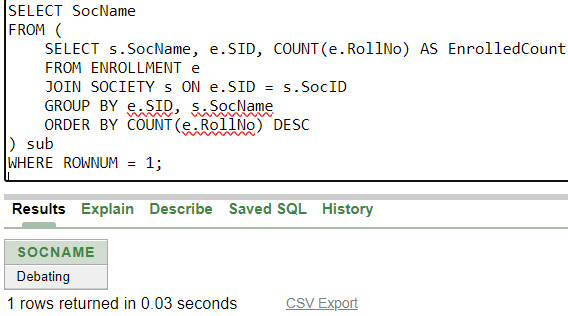
1. **Find society names in which more than five students have enrolled**

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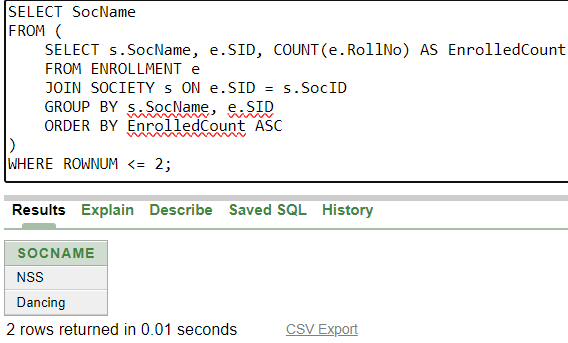
1. **Find the name of youngest student enrolled in society ‘NSS’**

****

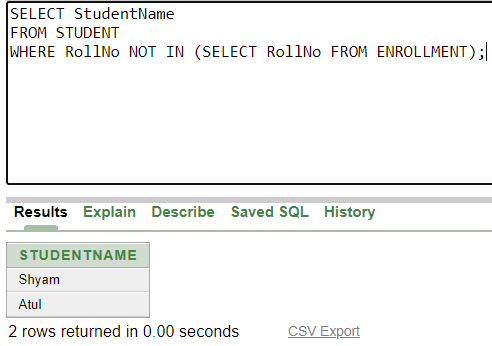
1. **Find the name of most popular society (on the basis of enrolled students)**

****

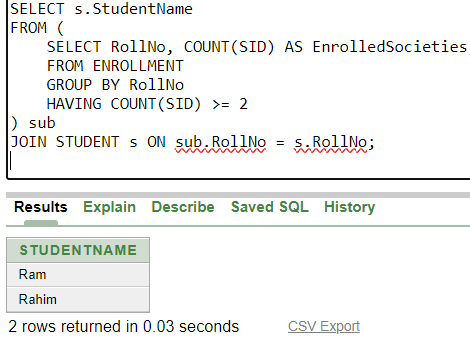
1. **Find the name of two least popular societies (on the basis of enrolled students)**

****

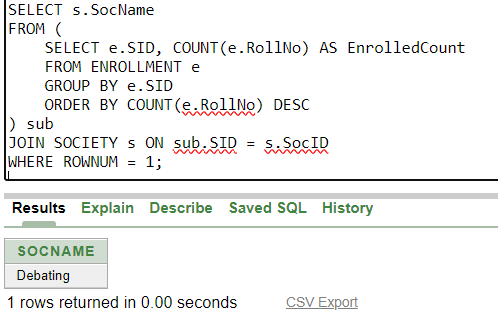
1. **Find the student names who are not enrolled in any society**

****

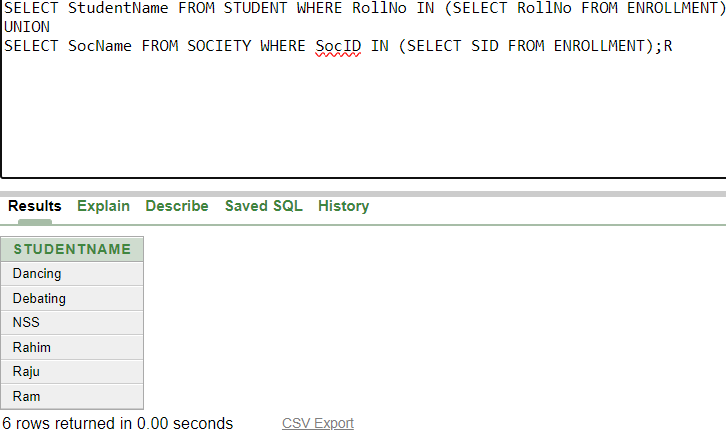
1. **Find the student names enrolled in at least two societies**

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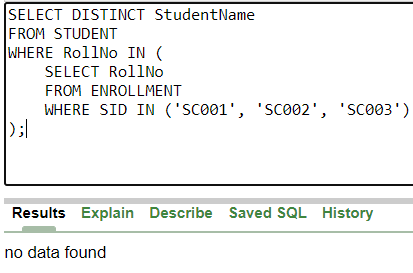
1. **Find society names in which maximum students are enrolled**

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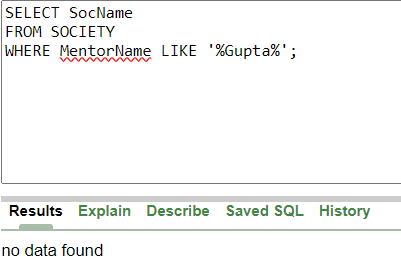
1. **Find names of all students who have enrolled in any society and society names in which at least one student has enrolled**

****

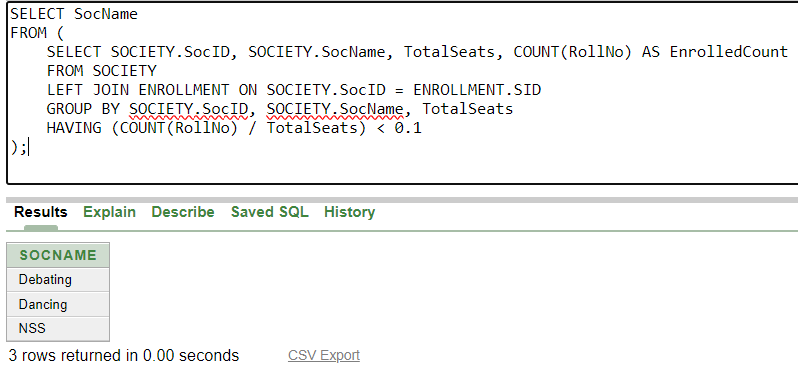
1. **Find names of students who are enrolled in any of the three societies ‘Debating’, ‘Dancing’ and ‘Sashakt’.**

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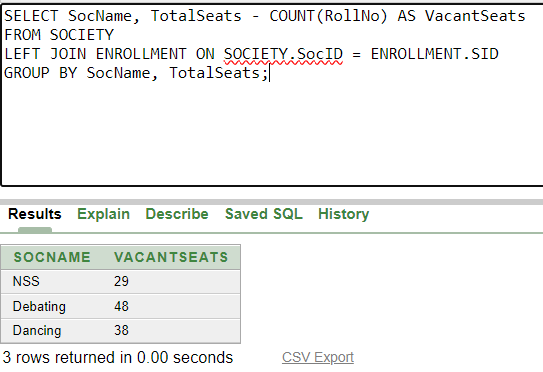
1. **Find society names such that its mentor has a name with ‘Gupta’ in it.**

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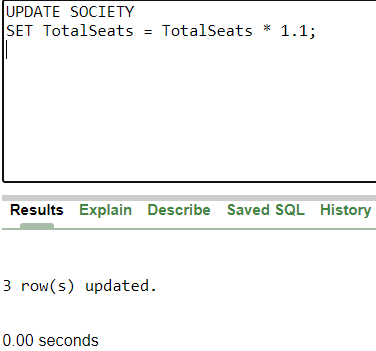
1. **Find the society names in which the number of enrolled students is only 10% of its capacity.**

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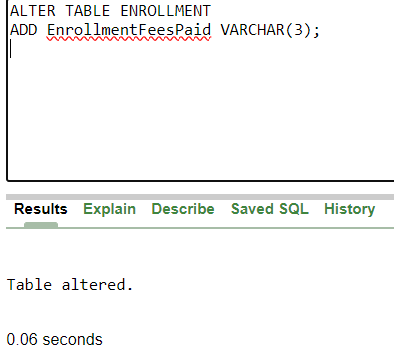
1. **Display the vacant seats for each society.**

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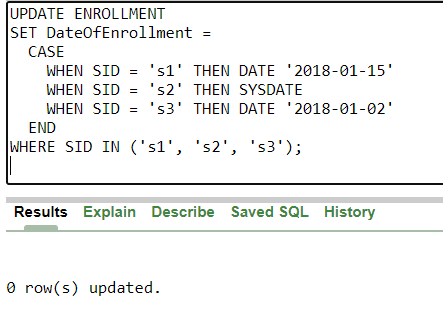
1. **Increment Total Seats of each society by 10%**

****

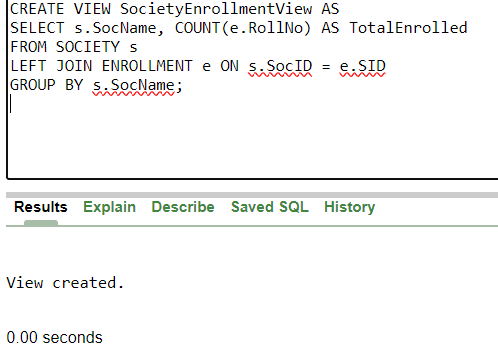
1. **Add the enrollment fees paid (‘yes’/’No’) field in the enrollment table.**

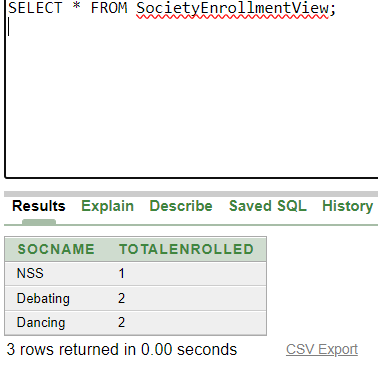
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1. **Update date of enrollment of society id ‘s1’ to ‘2018-01-15’, ‘s2’ to current date and ‘s3’ to ‘2018-01-02’.**

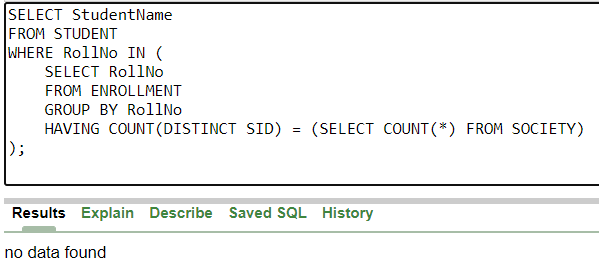
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1. **Create a view to keep track of society names with the total number of students enrolled in it.**

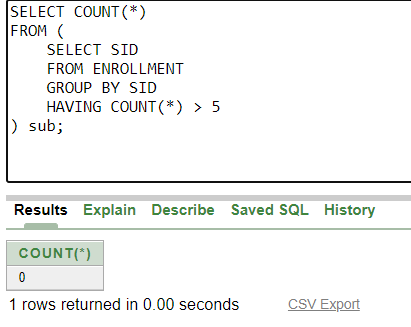
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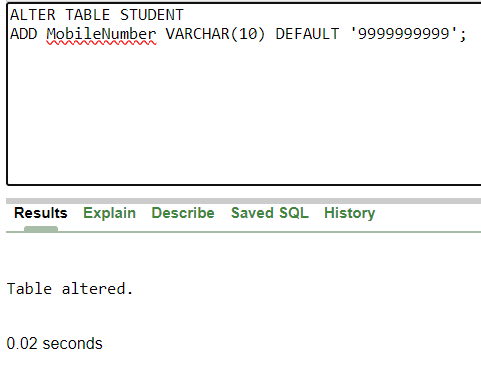
1. **Find student names enrolled in all the societies.**

****

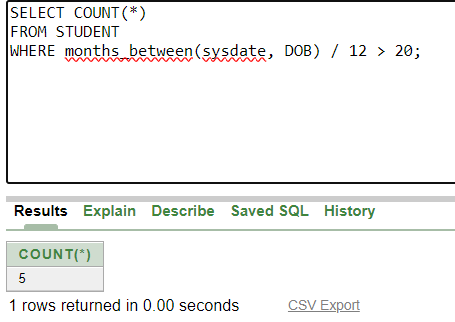
1. **Count the number of societies with more than 5 students enrolled in it**

****

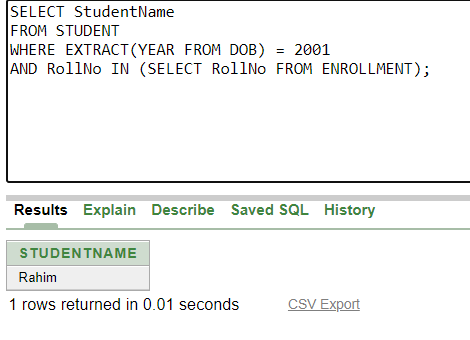
1. **Add column Mobile number in student table with default value ‘9999999999’**

****

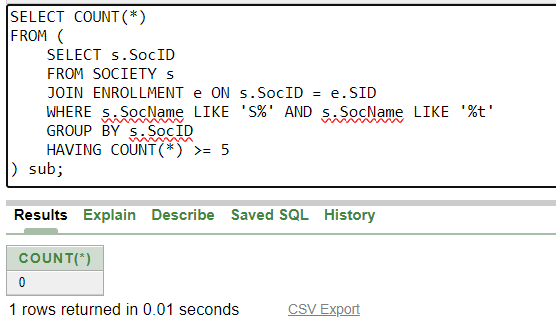
1. **Find the total number of students whose age is > 20 years.**

****

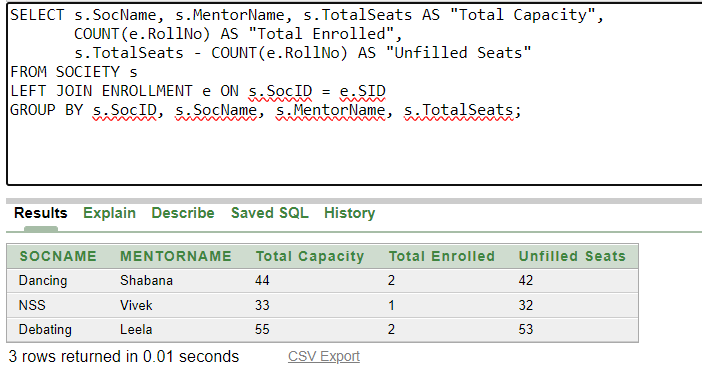
1. **Find names of students who are born in 2001 and are enrolled in at least one society.**

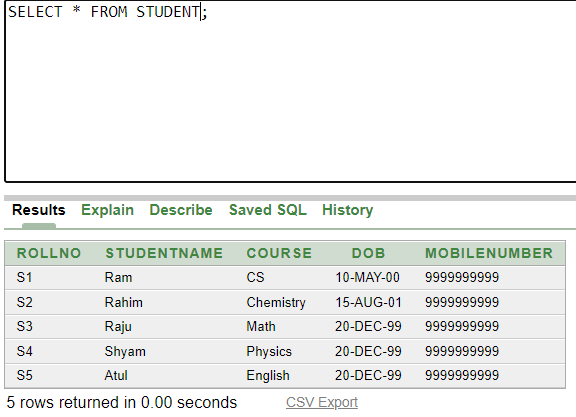
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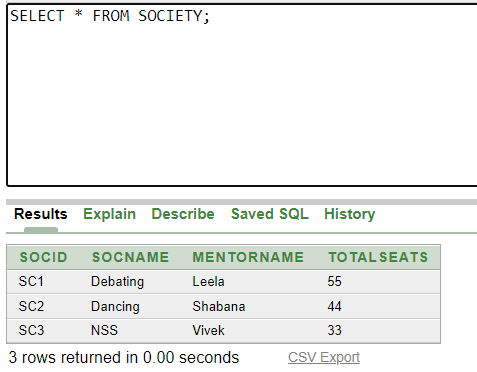
1. **Count all societies whose name starts with ‘S’ and ends with ‘t’ and at least 5 students are enrolled in the society.**

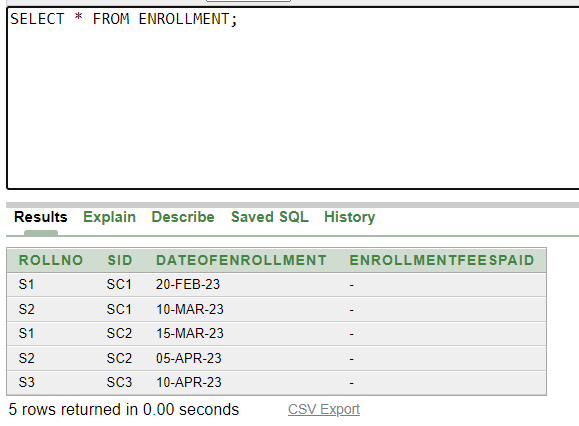
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1. **Display the following information: Society name Mentor name Total Capacity Total Enrolled Unfilled Seats**

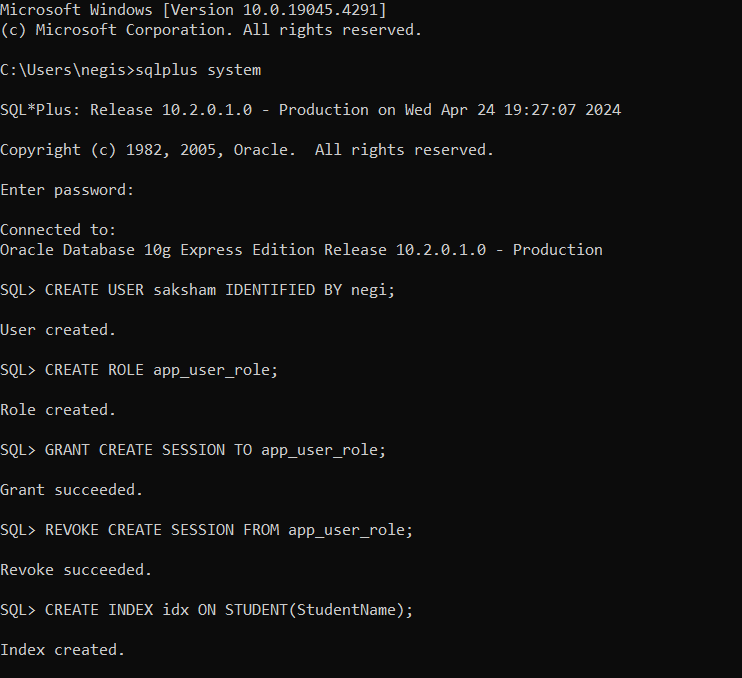
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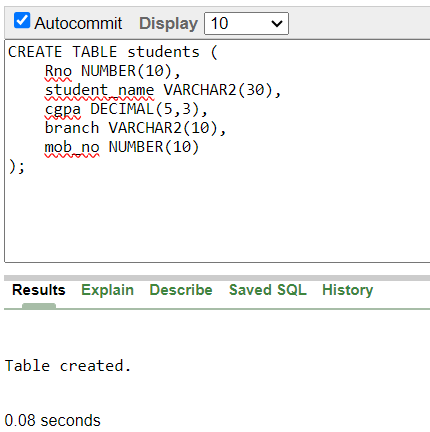
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**Ques2) Do the following database administration commands: create user, create role, grant privileges to a role, revoke privileges from a role, create index**

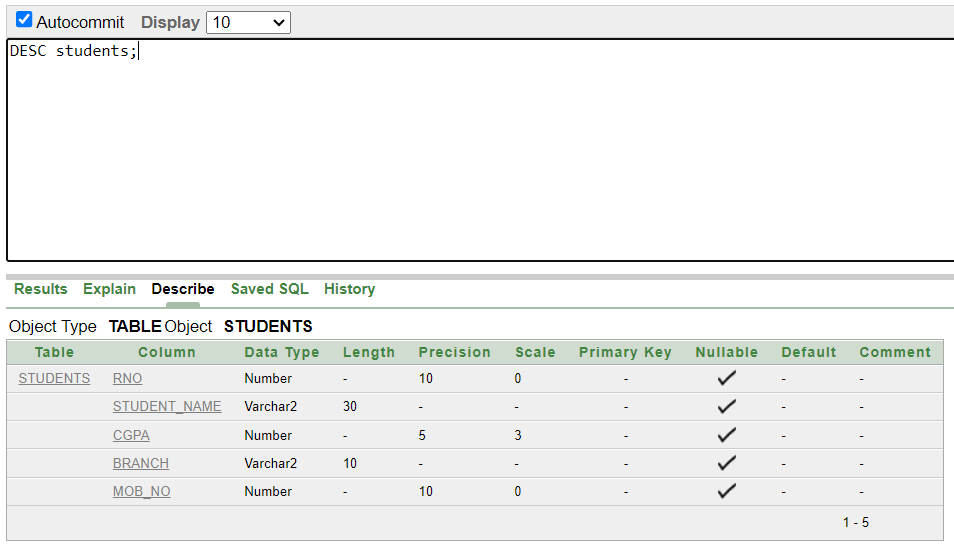
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**PRACTICE QUESTIONS**

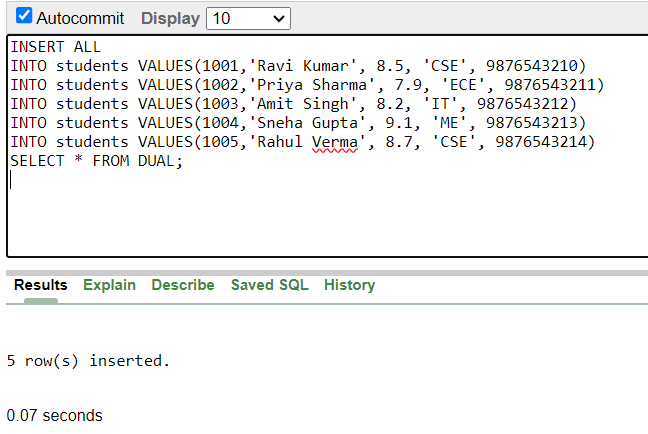
**CREATING STUDENT TABLE**

****

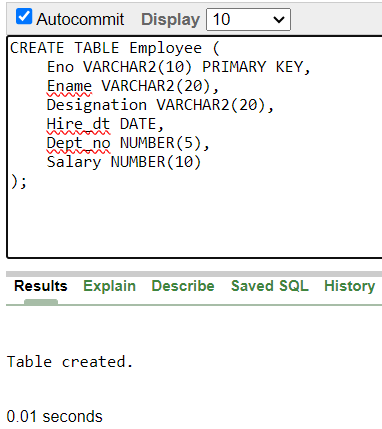
**Describing the students table**

****

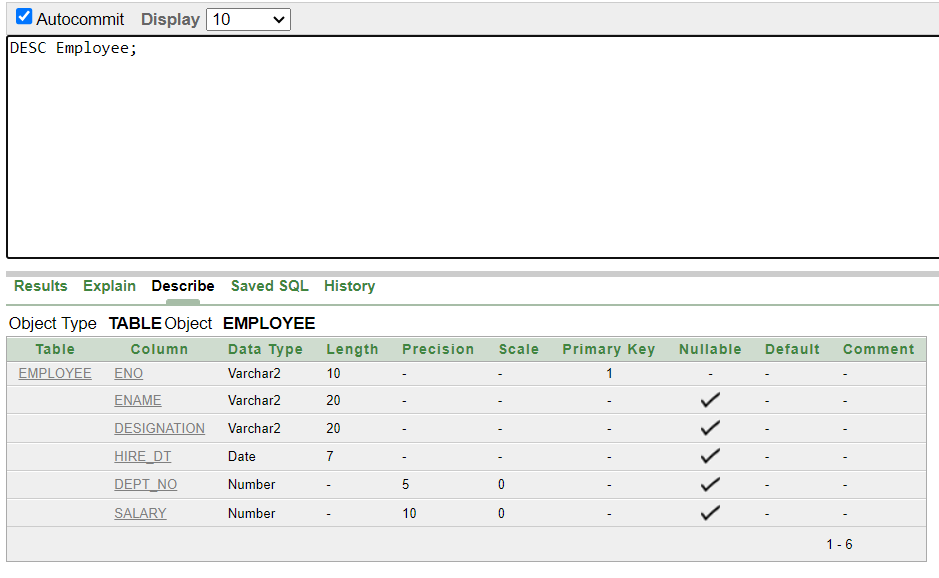
**INSERTING RECORDS**

****

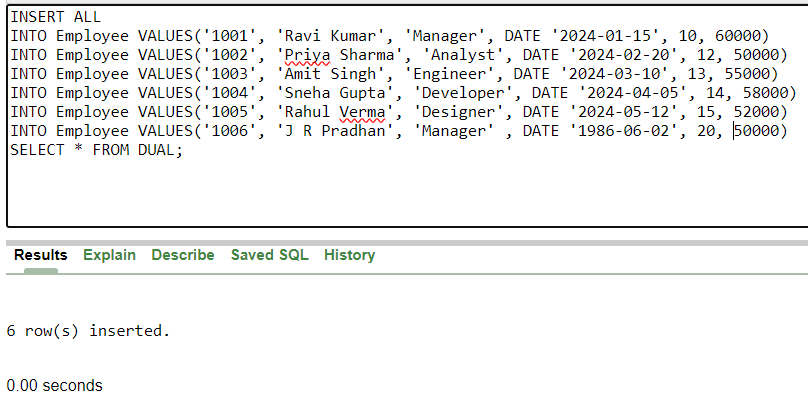
**CREATING EMPLOYEE TABLE**

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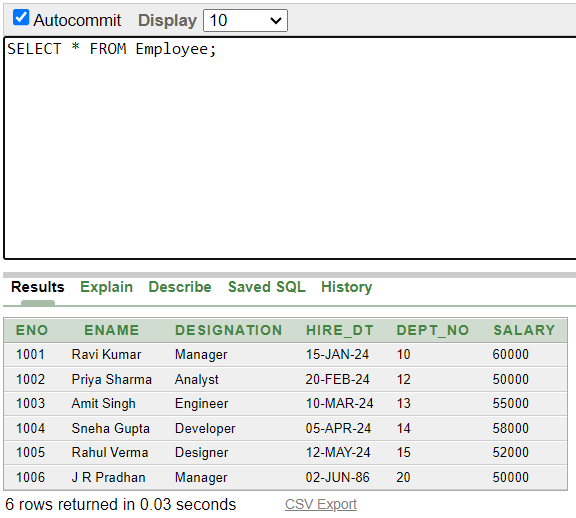
**Describing Employee Table**

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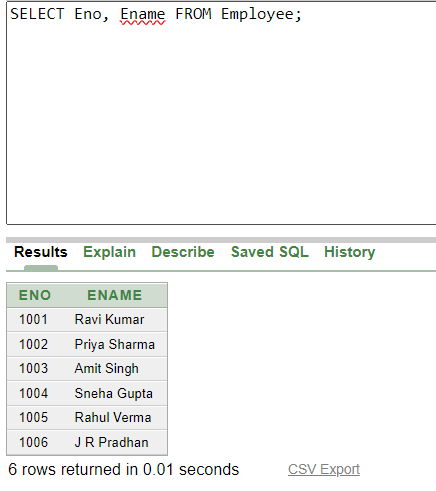
**INSERTING RECORDS**

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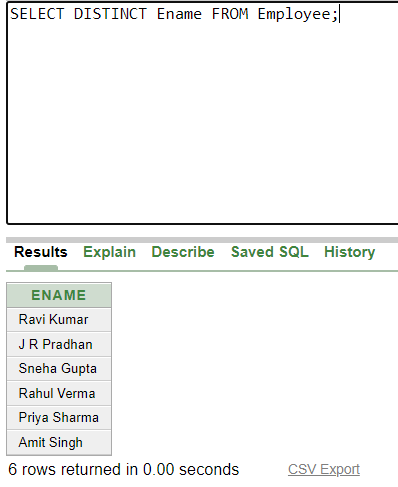
**USING SELECT STATEMENT**

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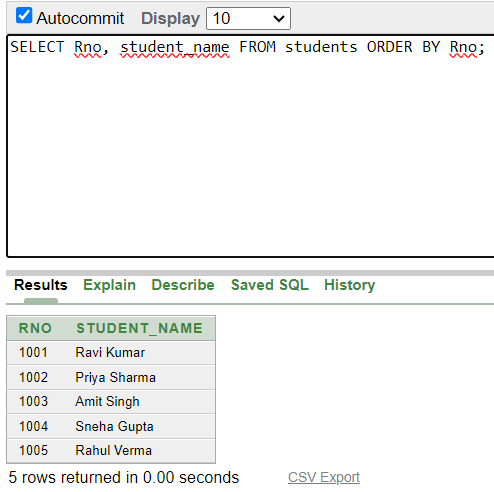
**RETRIEVAL OF SPECIFIED COLUMN**

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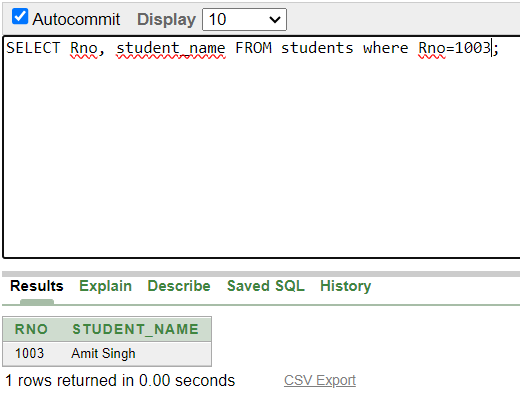
**TO DISPLAY ONLY UNIQUE VALUES**

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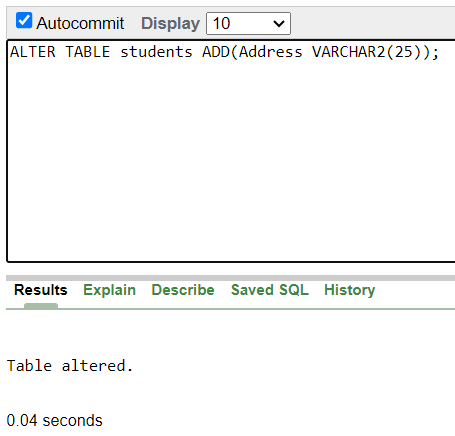
**SORTING OF DATA**

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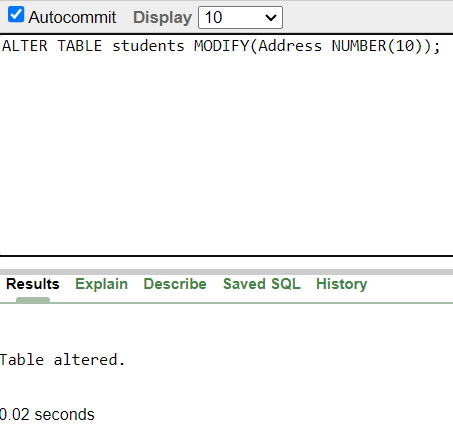
**USING WHERE CLAUSE**

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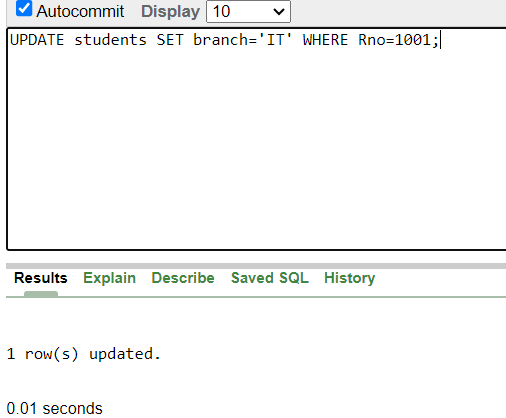
**MODIFYING THE STRUCTURE**

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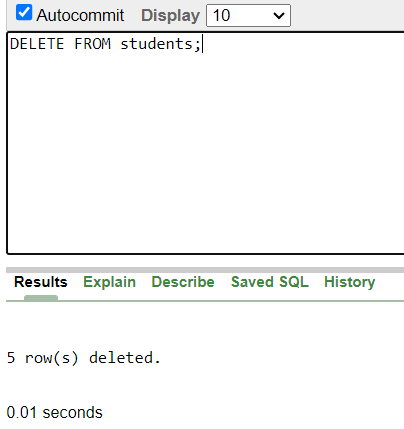
**MODIFYING EXISTING COLUMN**

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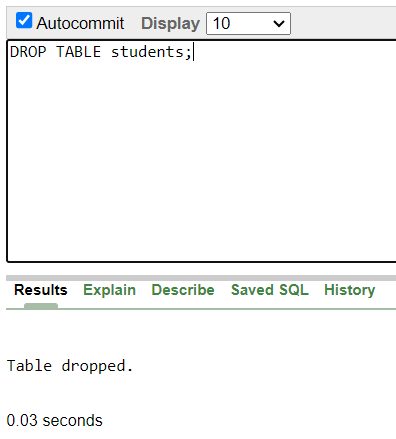
**UPDATING THE CONTENTOF TABLE**

****

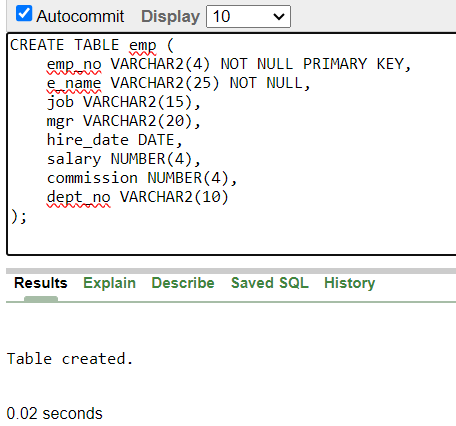
**DELETING TABLE CONTENT**

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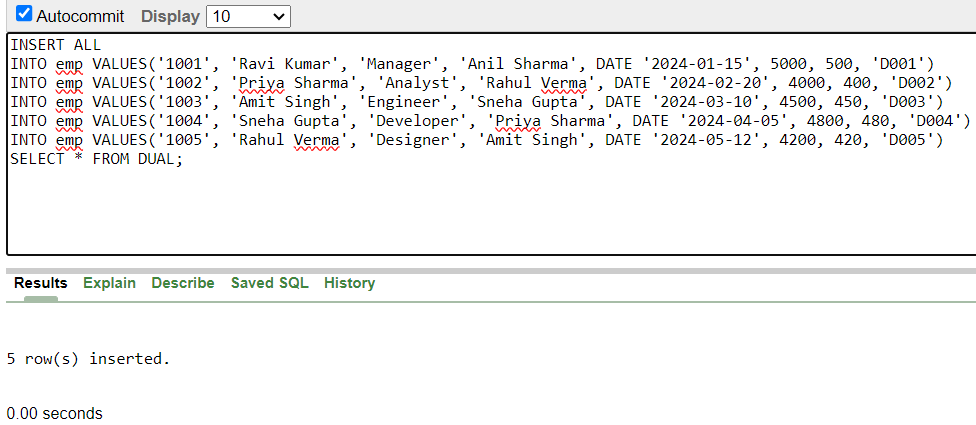
**DELETING TABLE**

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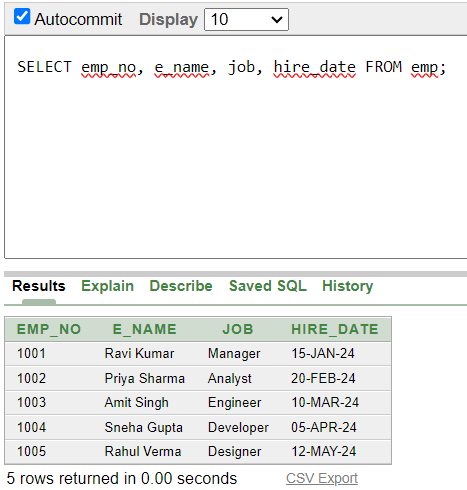
**Ques) Create the following table to store the details of an Employee…… EMPLOYEE ( Empno , Ename , JOB, Mgr , Hire Date, Salary , Commission, Department no )**

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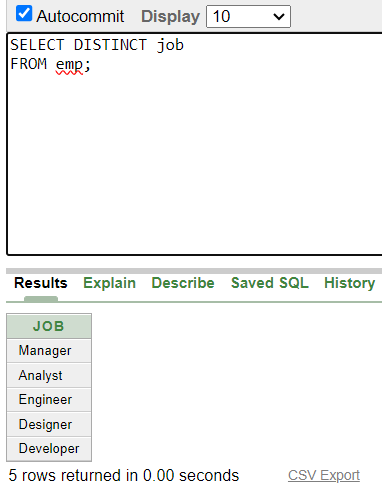
**INSRTING RECORDS**

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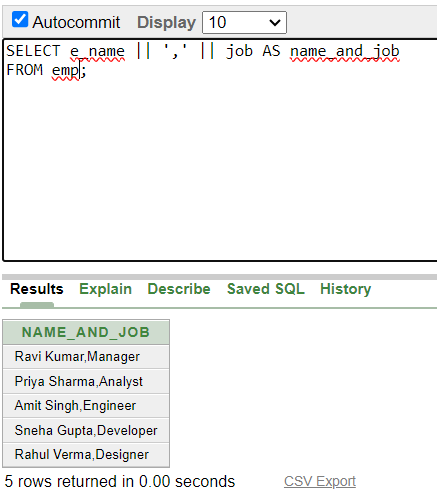
**1) Write a query to display name, job,hire date and employee no for each employee with empno appearing first.**

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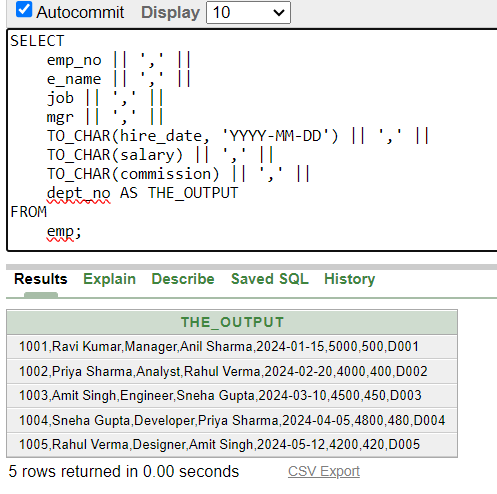
**2) Write a query to display unique jobs from the employee table.**

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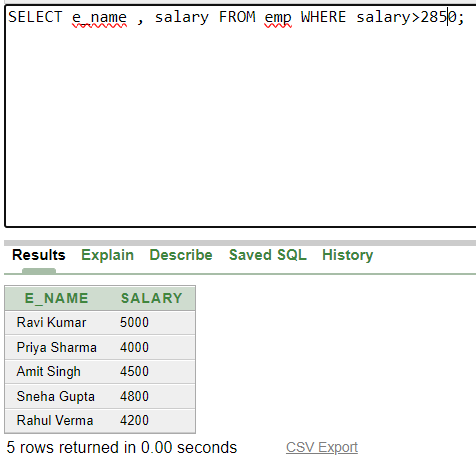
**3 ) Write a query to display name concatenated by a job separated by a comma .**

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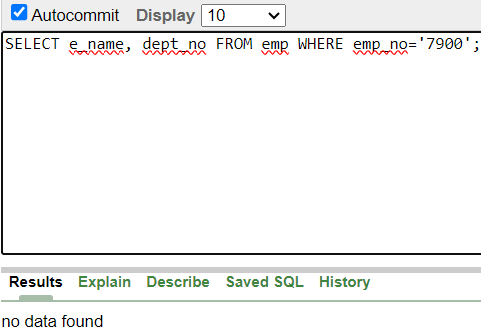
**4) Write a query to display all data from employee table. Separate each column by a comma and name the column THE\_OUTPUT .**

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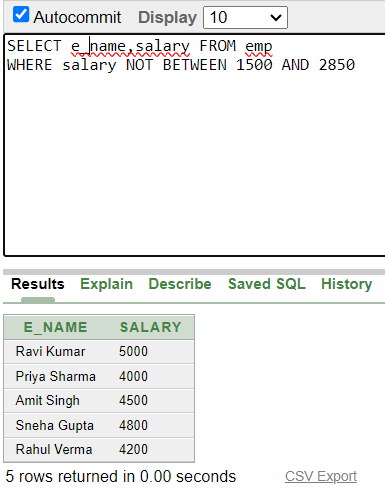
**5) Write a query to display the name and salary of employees earning more than $2850 .**

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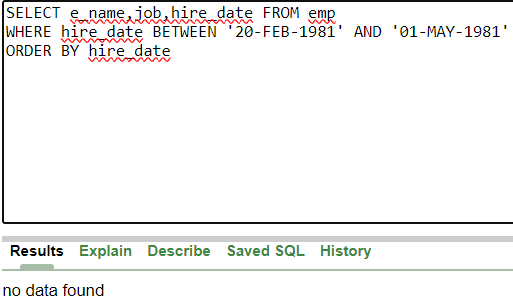
**6) Write a query to display the name and Department number for emp no 7900.**

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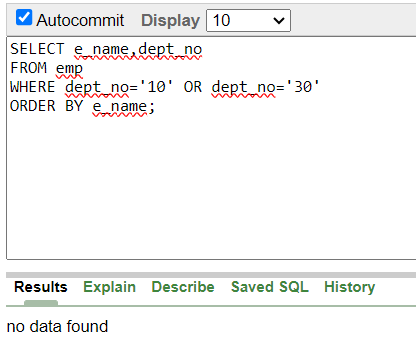
**7 ) Write a query to display the name and salary of all employees whose salary is not in the range of $1500 and $3000.**

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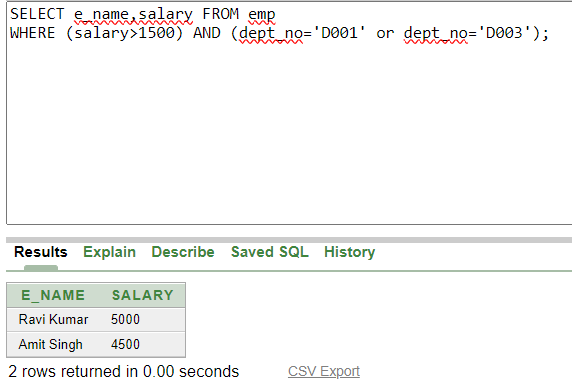
**8 ) Write a query to display employee name, job, hire date of employees hired between FEB 20, 1981 and MAY 1, 1981. Order the query in ascending order of start date.**

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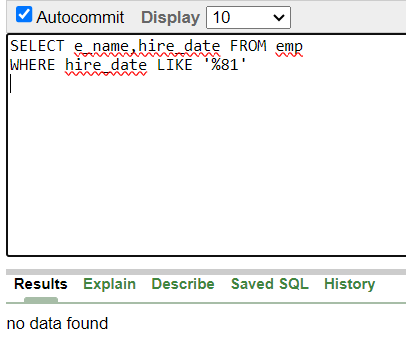
**9) Write a query to display the name and department number of All employees in departments 10 and 30 in alphabetical order by name.**

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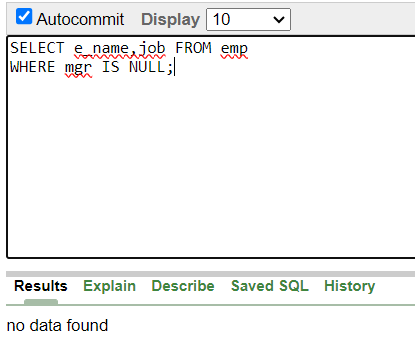
**10 ) Write a query to display the name and salary and Dept no of employees who earnes more than $1500 and are in dept no 10 or 30 .**

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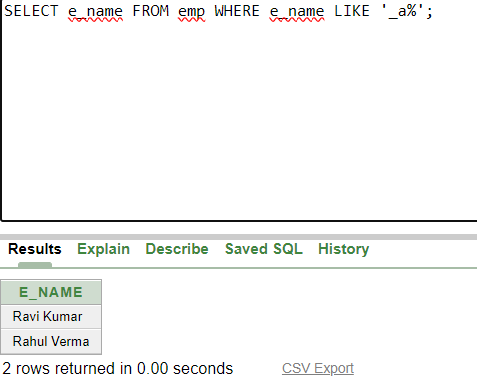
**11 ) Write a query to display the name and hire date of every employees who were hired in 1981.**

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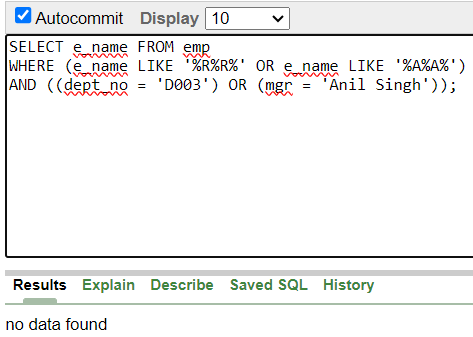
**12 ) Write a query to display the name and Job of all employees who do not have a manager.**

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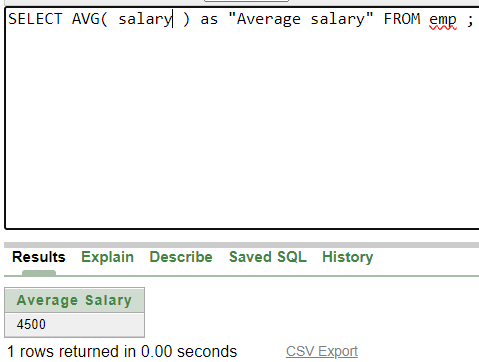
**13 ) Write a query to display the names of all employees where the second letter of their name is A.**

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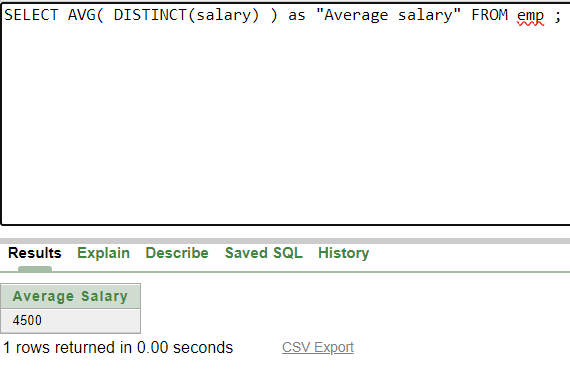
**14) Write a query to display the names of all employees that have two ‘R ‘s or A ‘s in their name and are in department num D003 or their manager is Anil Singh.**

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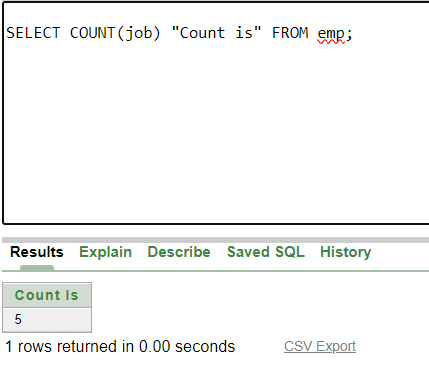
**15) Display the average salary of employees as AVERAGE SALARY**

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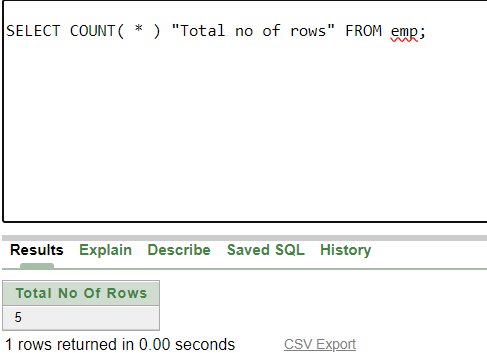
**AVERAGE OF DISTINCT SALARIES**

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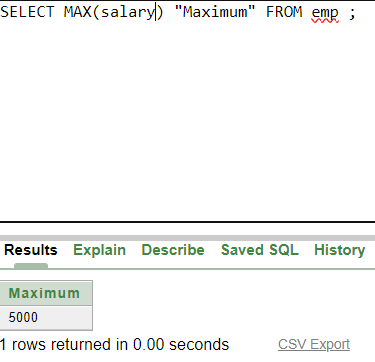
**Q16) Count the number of employees**

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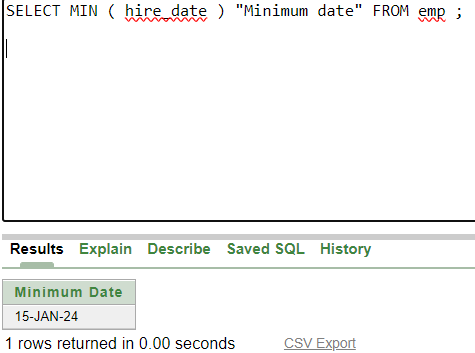
**INCLUDING NULL VALUES**

****

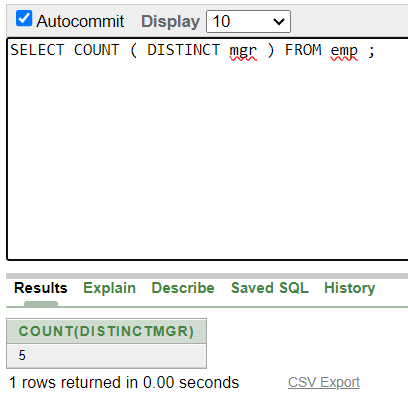
**Q17) Display the Maximum salary of the employee**

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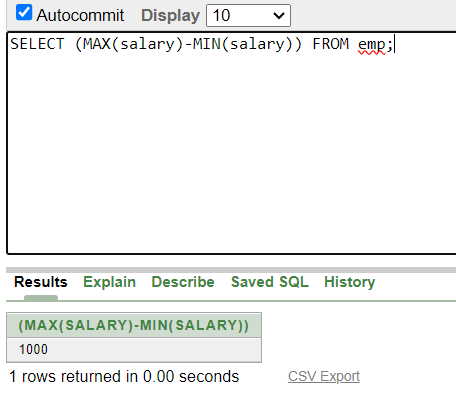
**Q18) Display minimum date on employees**

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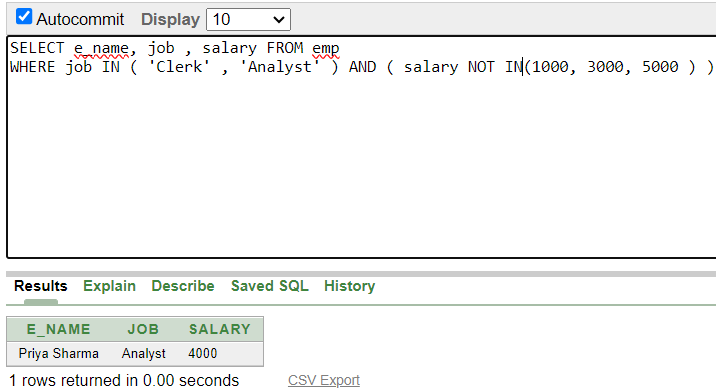
**Q19) Query to display the no. of managers without listing their names .**

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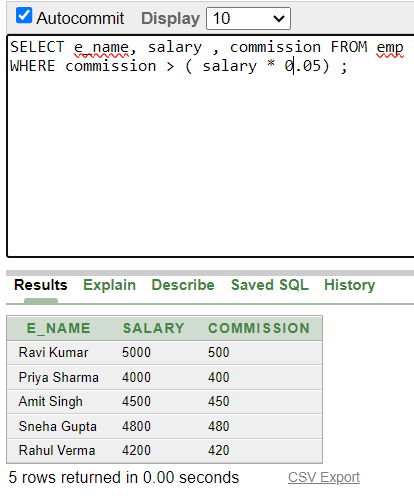
**Q20) Query to display the difference b/w the highest and lowest salaries**

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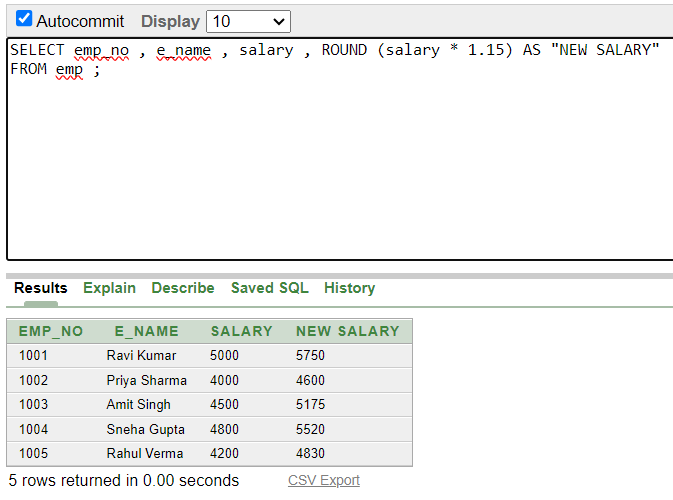
**Q21) Write a query to display Name, Job, and salary of all employees whose Job is Clerical or Analyst & their salaries are not equal to 1000, 3000 or 5000**

****

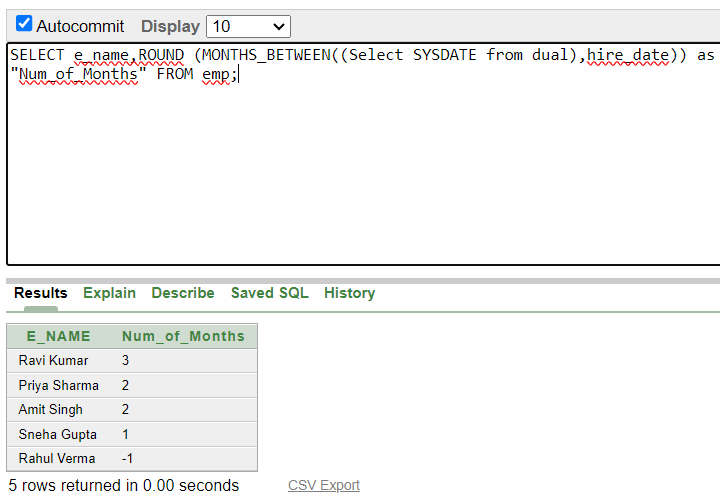
**Q22) Write a query to display Name , Salary , Commission for all employees whose commission amount is greater than their Salary increased by 5% .**

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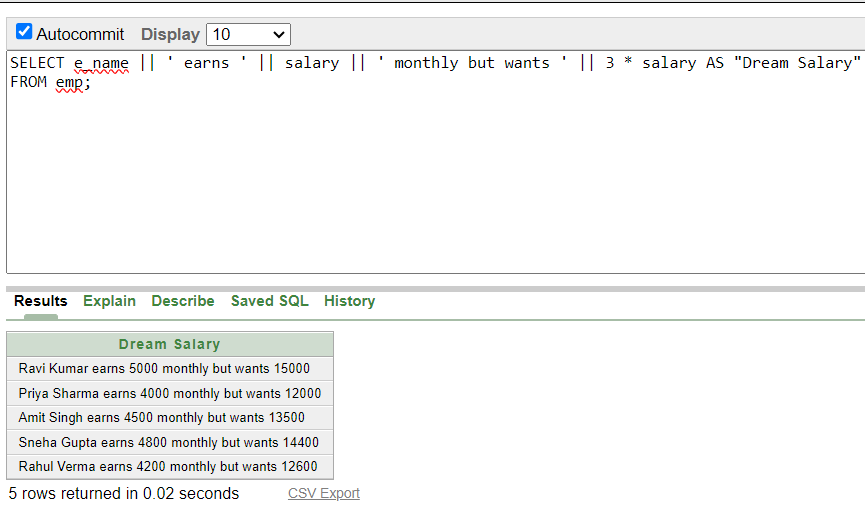
**Q23) Query to display Employee No. , Name , Salary and the Salary increased by 15 % expressed as absolute whole number .**

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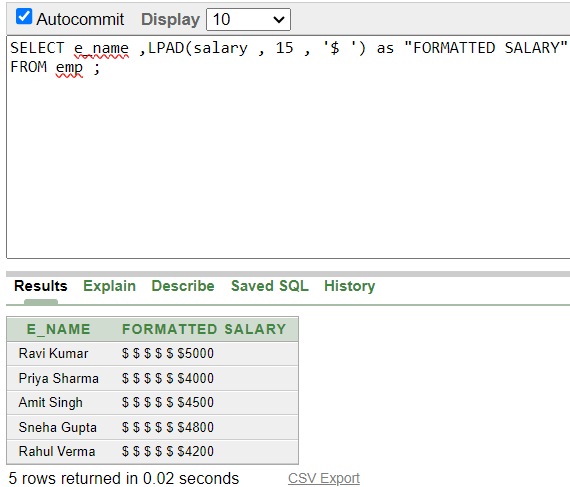
**Q24) Query to display name and calculate the number of months between today and the date each employee was hired.**

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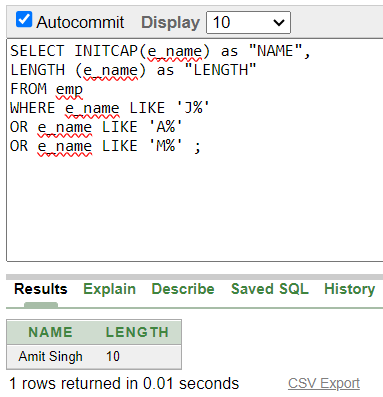
**Q25) Query to display the following for each employee :-- < ename > earns < salary > monthly but wants < 3 \* current salary > . Label the column as DREAM SALARY .**

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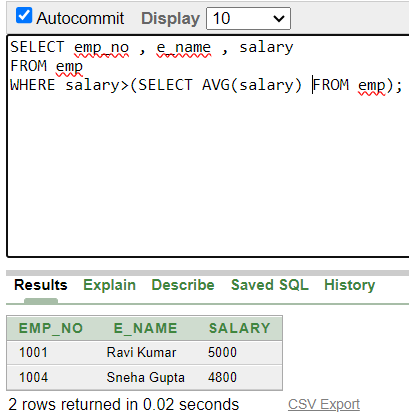
**Q26) Query to display name and salary for all employees . Format the salary to be 15 character long, left padded with $ sign .**

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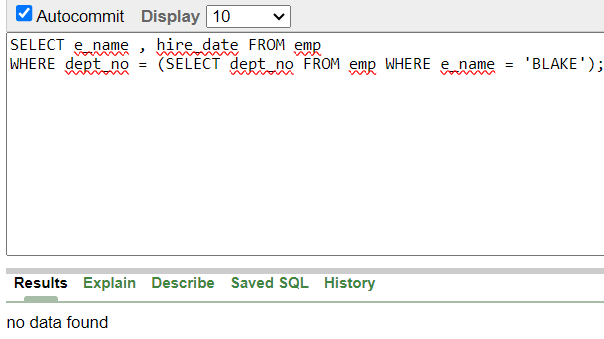
**Q27) Query to display Name with 1st letter capitalized and all other letters lower case & length of the name of all the employees whose names start with ‘ J’ , ‘ A” and ‘M’ .**

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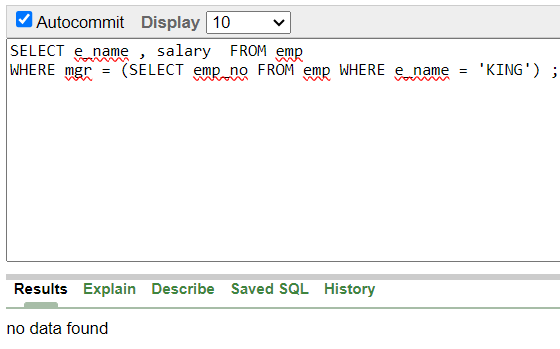
**Q28) Query to display the Employee No , name and salary for all employees who earn more than the average salary .**

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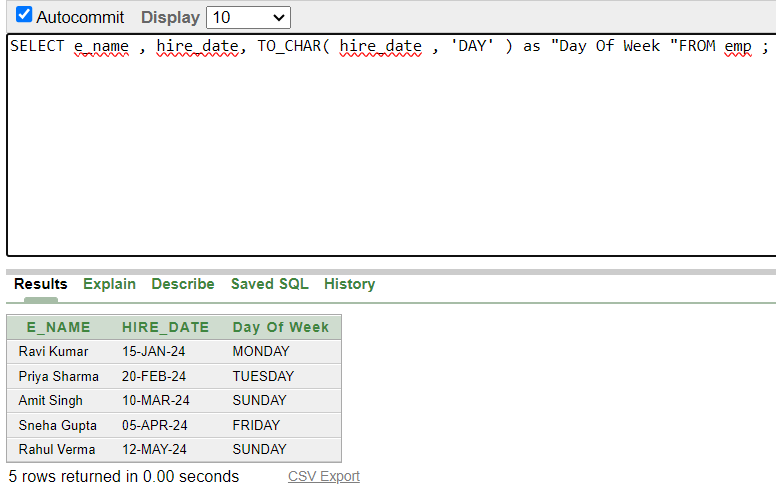
**Q29) Query to display Name and Hiredate for all employees in the same dept as BLAKE .**

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**Q30) Query to display the employee name and salary of all employees who report to king**

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**Q31) Query to display name , hiredate and day of the week on which the employee started .**

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