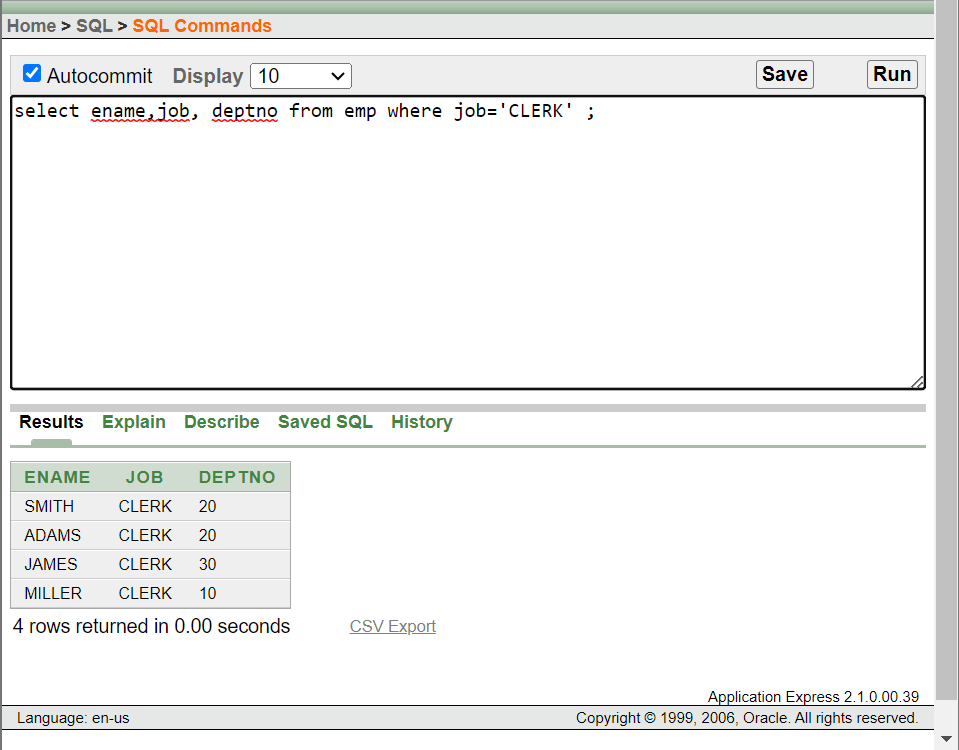
**IDB LAB-3**

Lecture – 4:

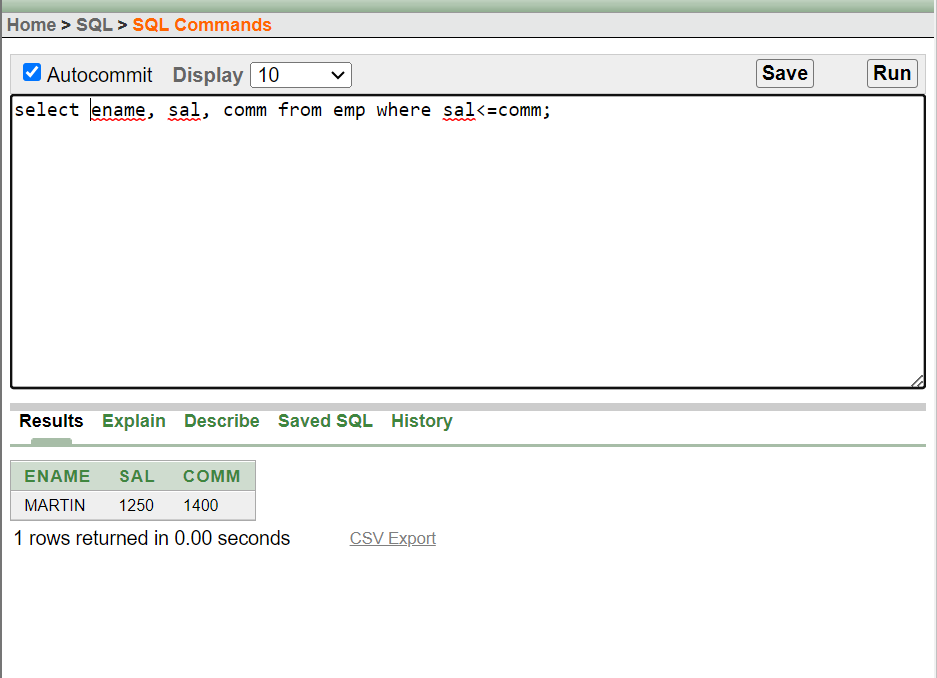
1. Using WHERE clause:

select ename,job, deptno from emp where job='CLERK' ;



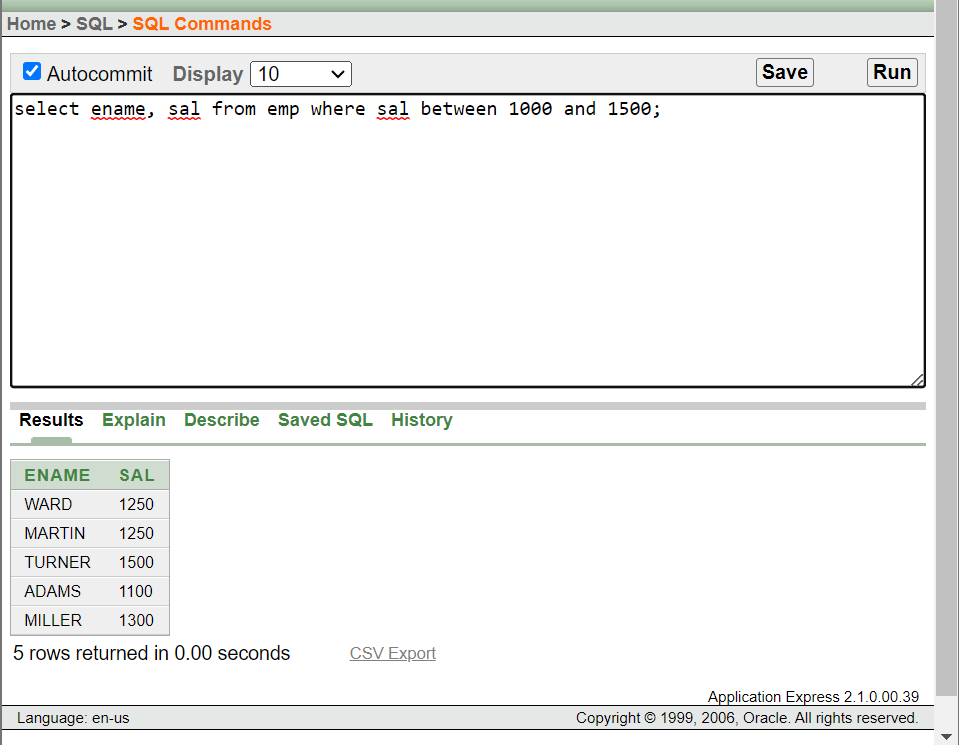
1. Using the Comparison Operators:

select ename, sal, comm from emp where sal<=comm;



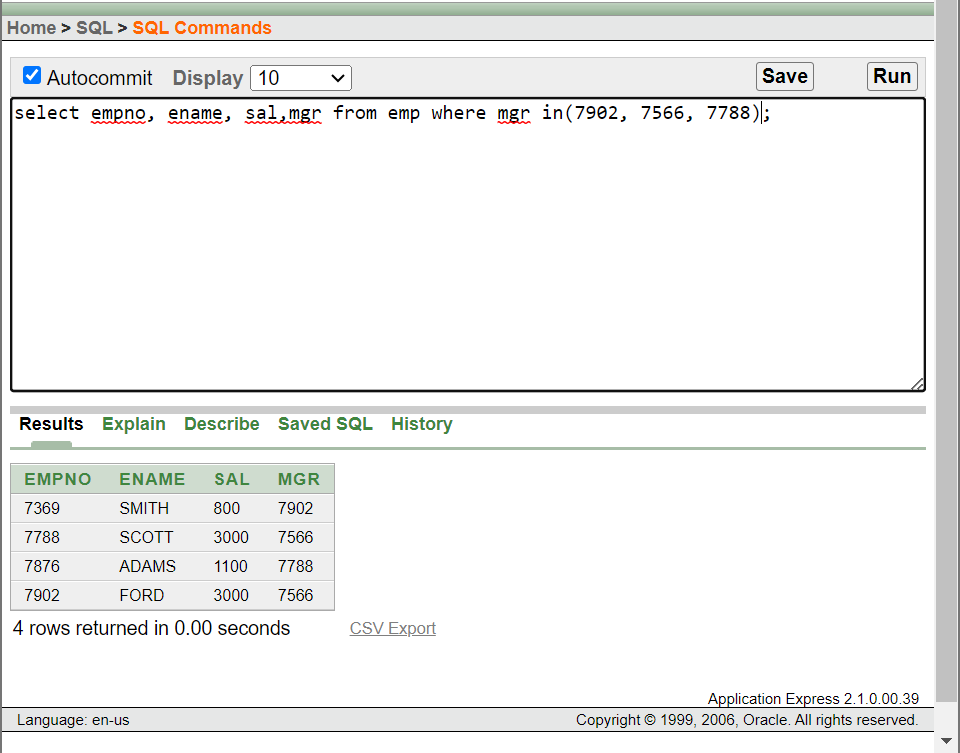
1. Using the BETWEEN Operator

select ename, sal from emp where sal between 1000 and 1500;



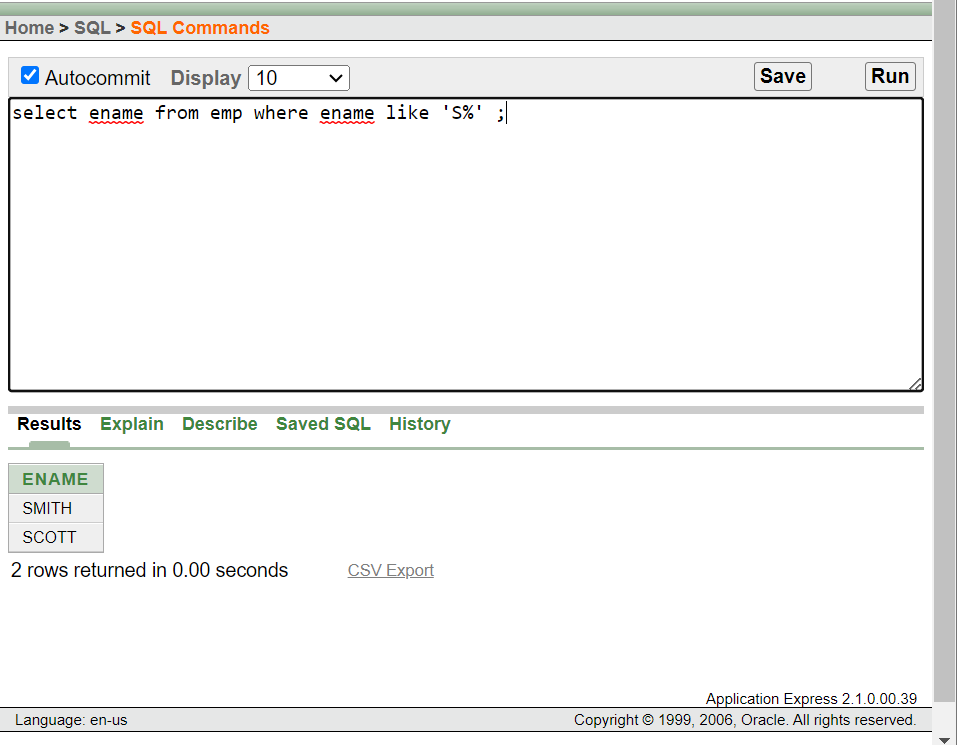
1. Using the IN Operator:

select empno, ename, sal,mgr from emp where mgr in(7902, 7566, 7788);

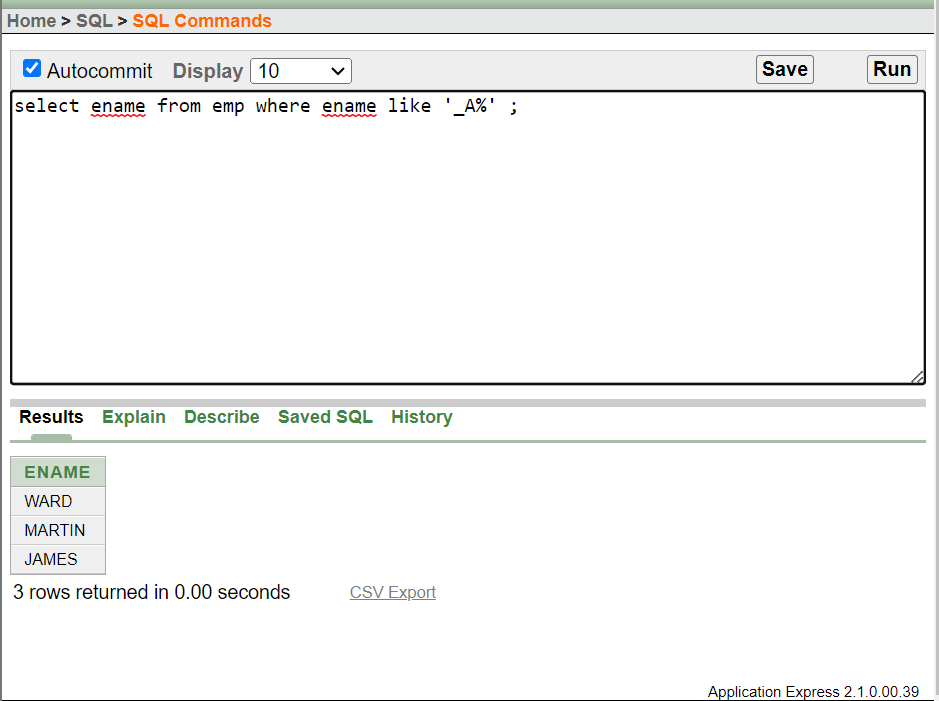


1. Using the LIKE Operator:

i. select ename from emp where ename like 'S%' ;



ii. select ename from emp where ename like '\_A%' ;



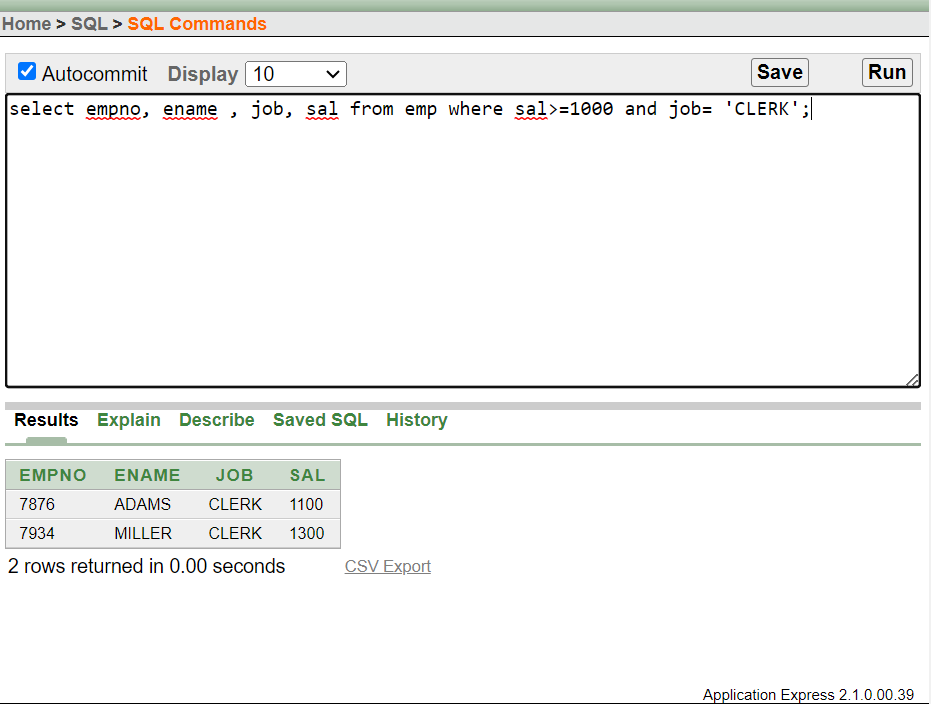
1. Using the IS NULL Operator:

select ename, mgr from emp where mgr is null ;



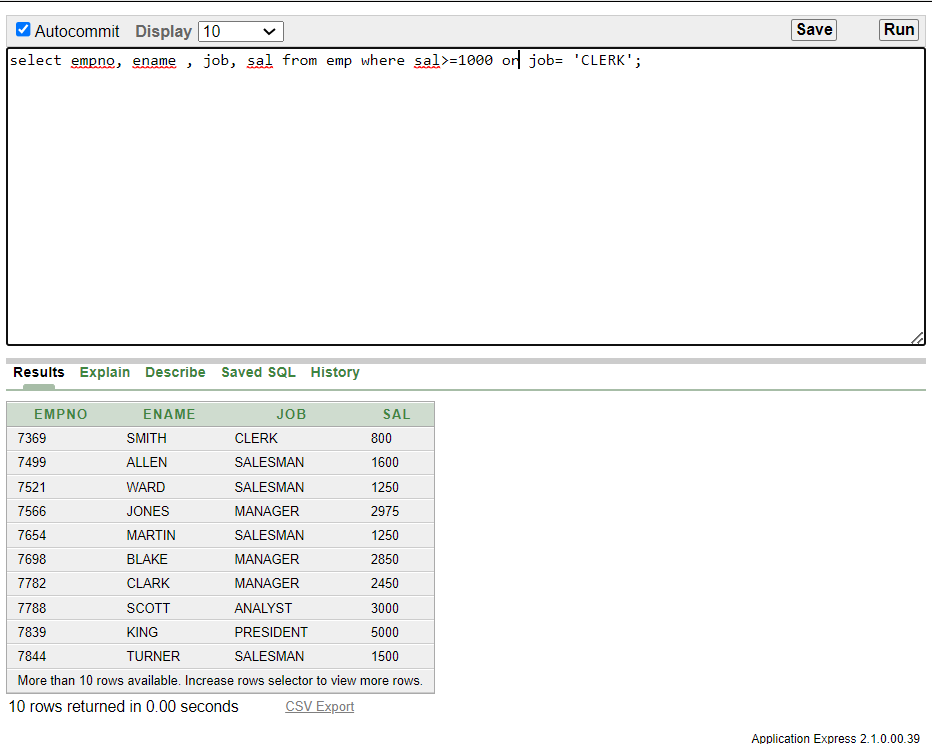
1. Using the AND Operator

select empno, ename , job, sal from emp where sal>=1000 and job= 'CLERK';



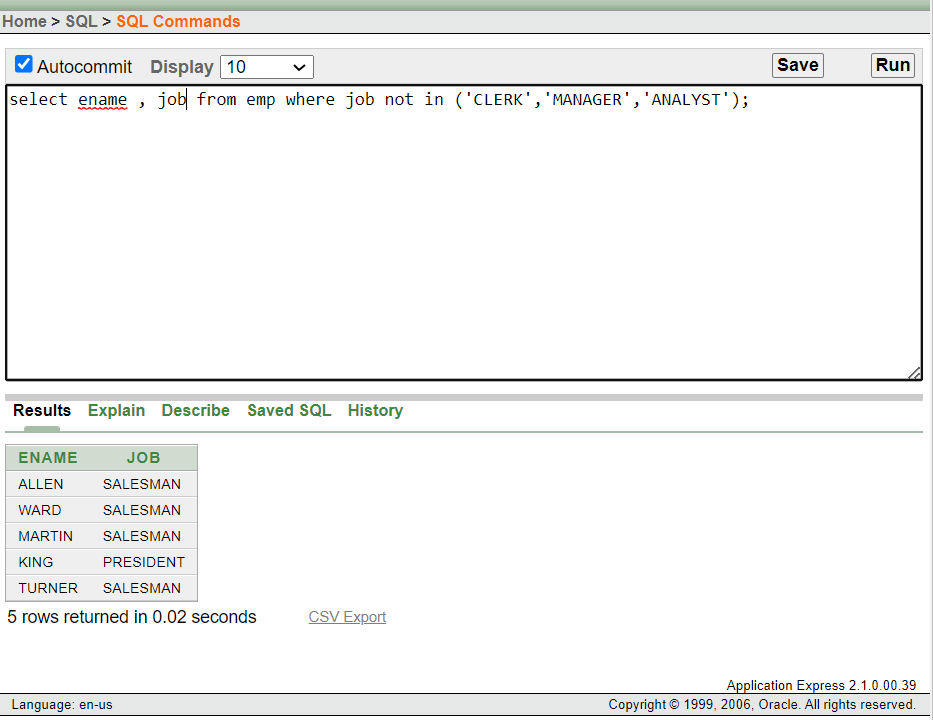
1. Using the OR Operator

select empno, ename , job, sal from emp where sal>=1000 or job= 'CLERK';



1. Using the NOT Operator

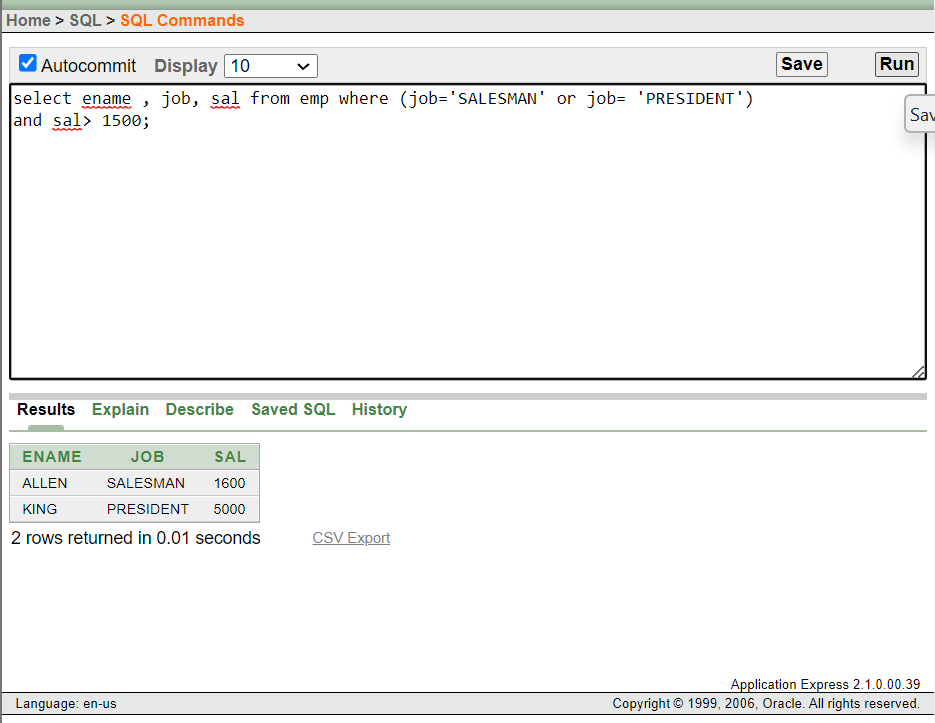
select ename , job from emp where job not in ('CLERK','MANAGER','ANALYST');



1. Rules of Precedence:

select ename , job, sal from emp where (job='SALESMAN' or job= 'PRESIDENT')

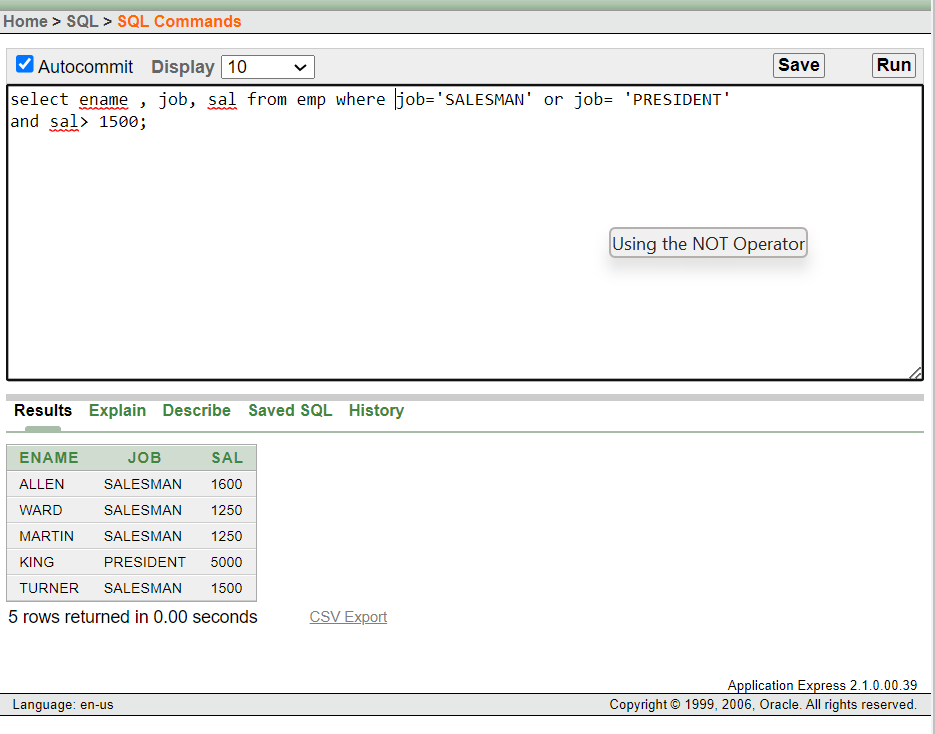
and sal> 1500;



1. Rules of Precedence:

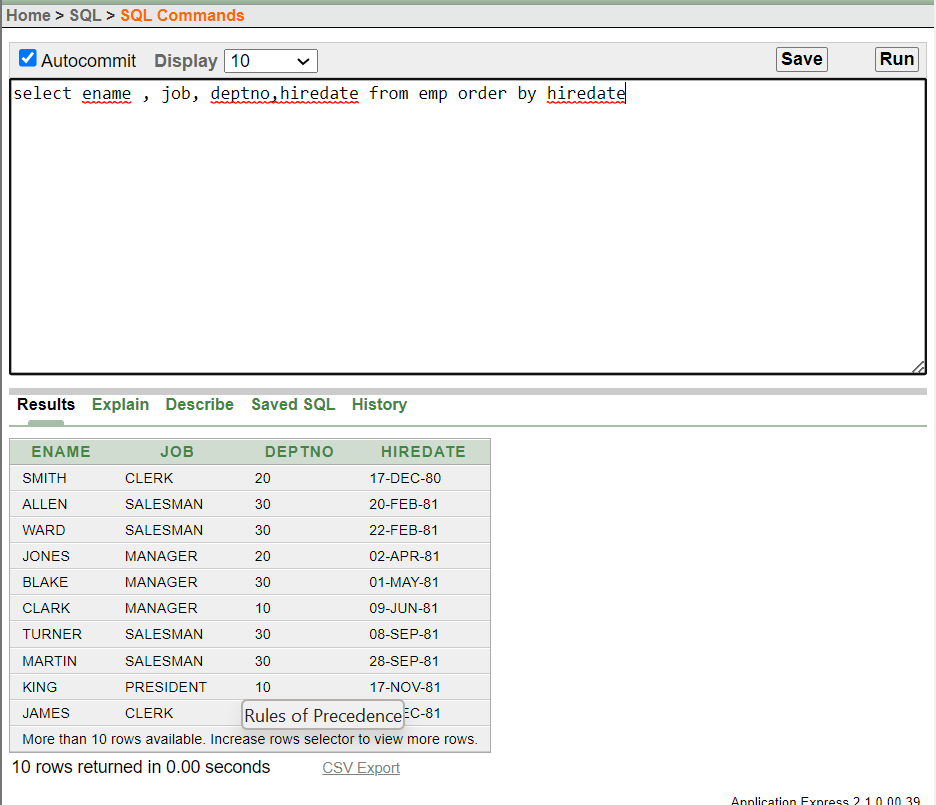
select ename , job, sal from emp where job='SALESMAN' or job= 'PRESIDENT'

and sal> 1500;



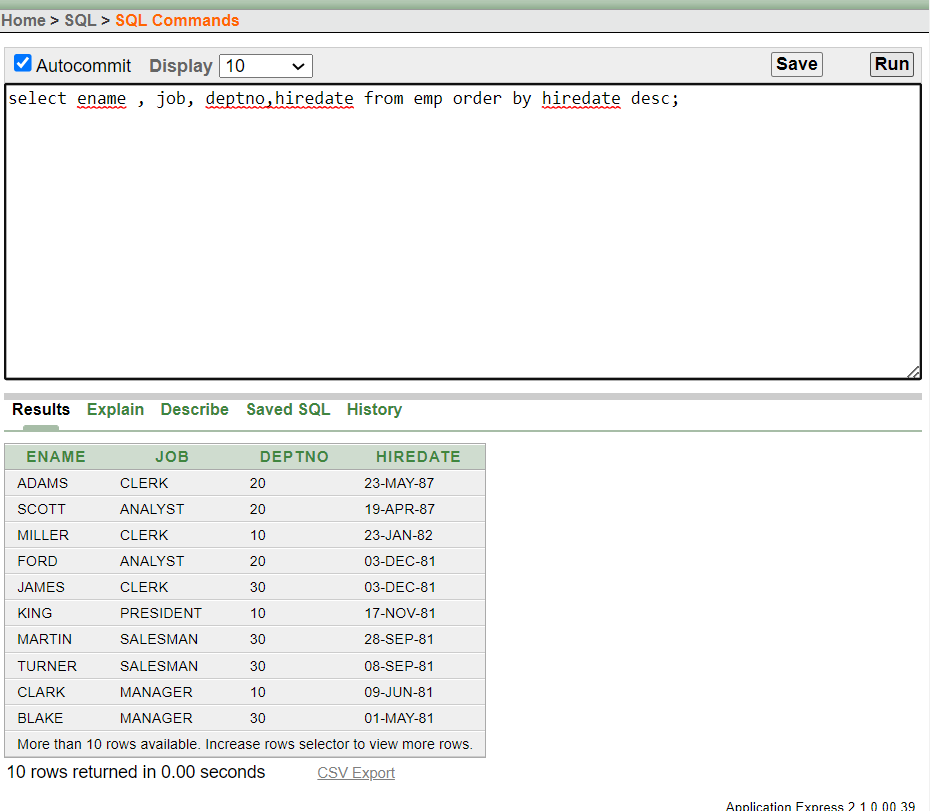
1. ORDER BY Clause:

select ename , job, deptno,hiredate from emp order by hiredate



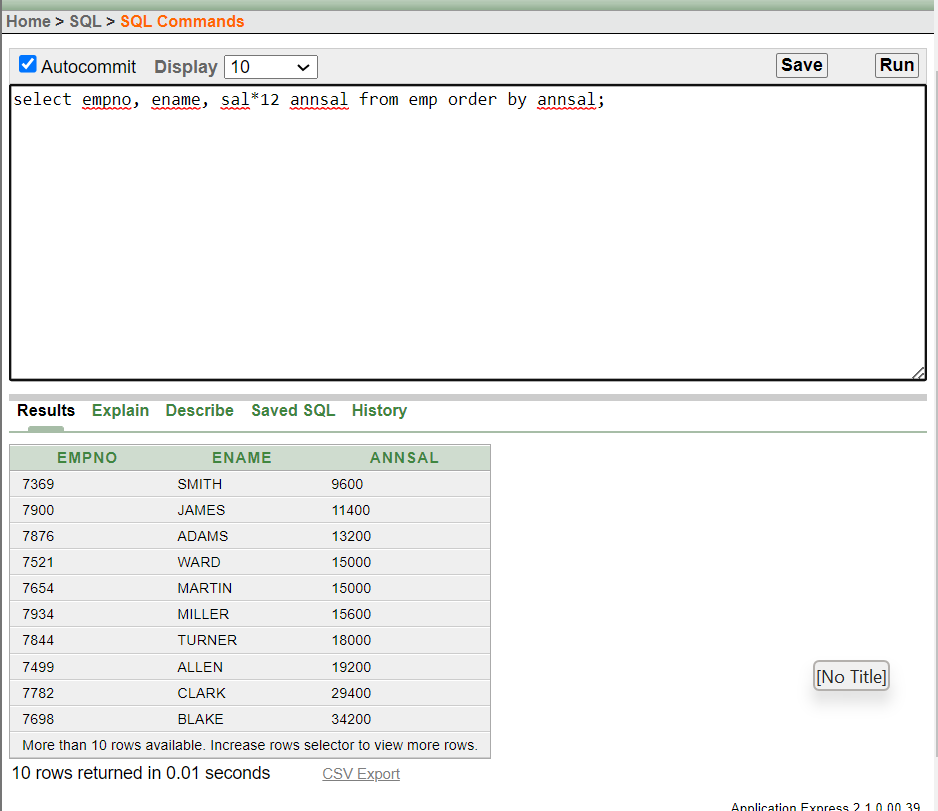
1. Sorting in Descending Order:

select ename , job, deptno,hiredate from emp order by hiredate desc;



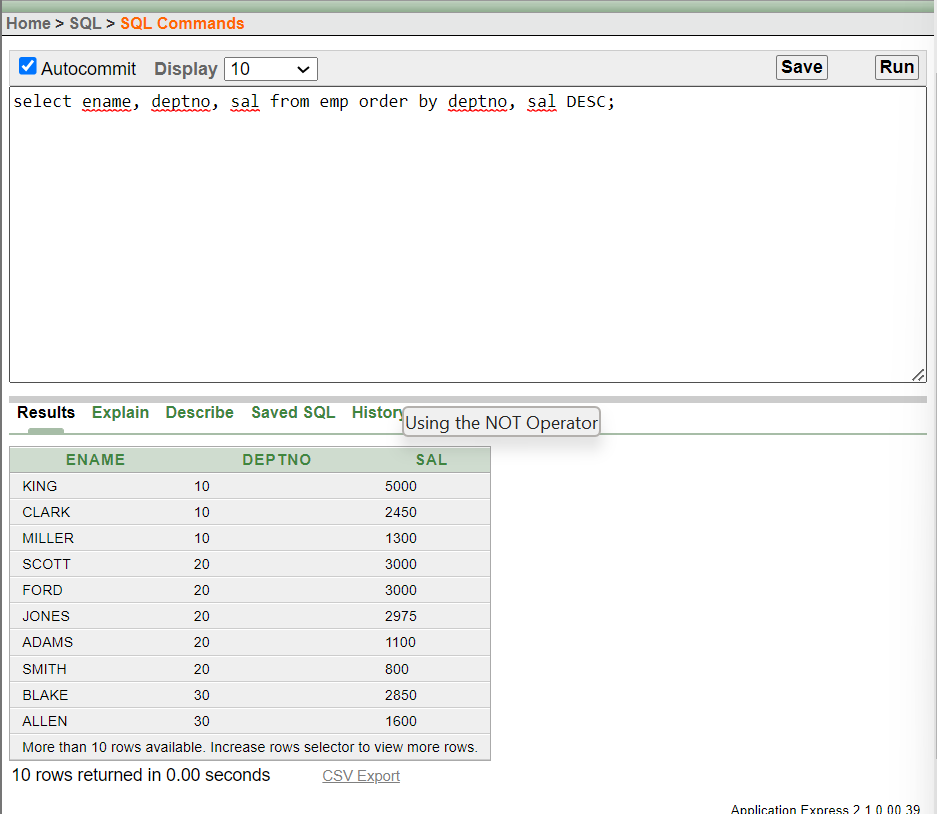
1. Sorting in Column Alias:

select empno, ename, sal\*12 annsal from emp order by annsal;



1. Sorting by Multiple Columns:

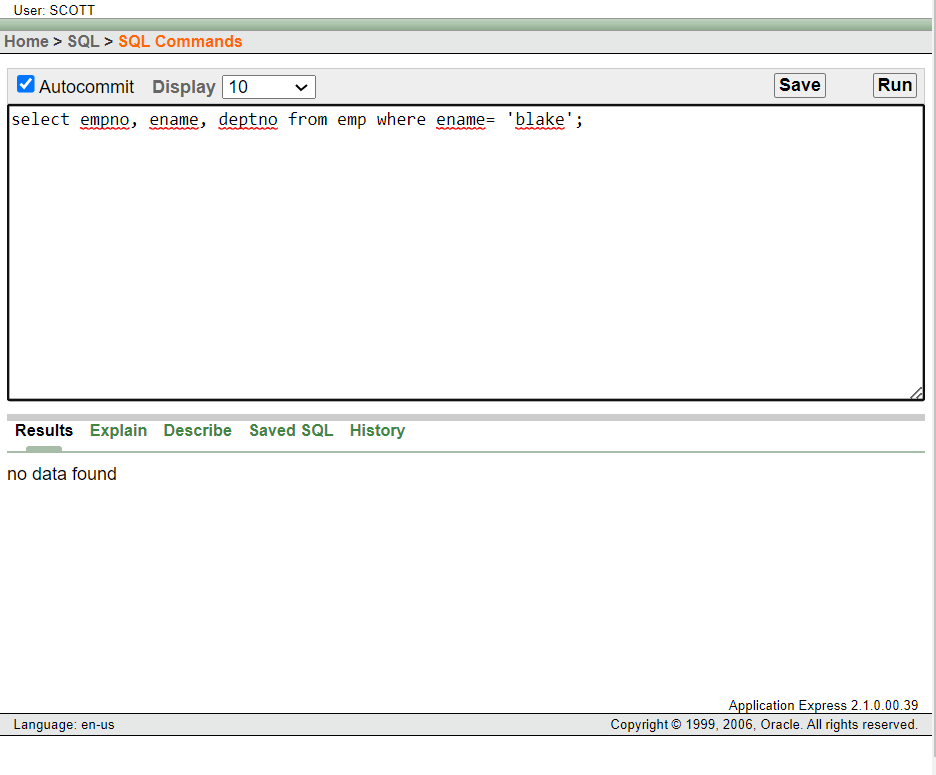
select ename, deptno, sal from emp order by deptno, sal DESC;



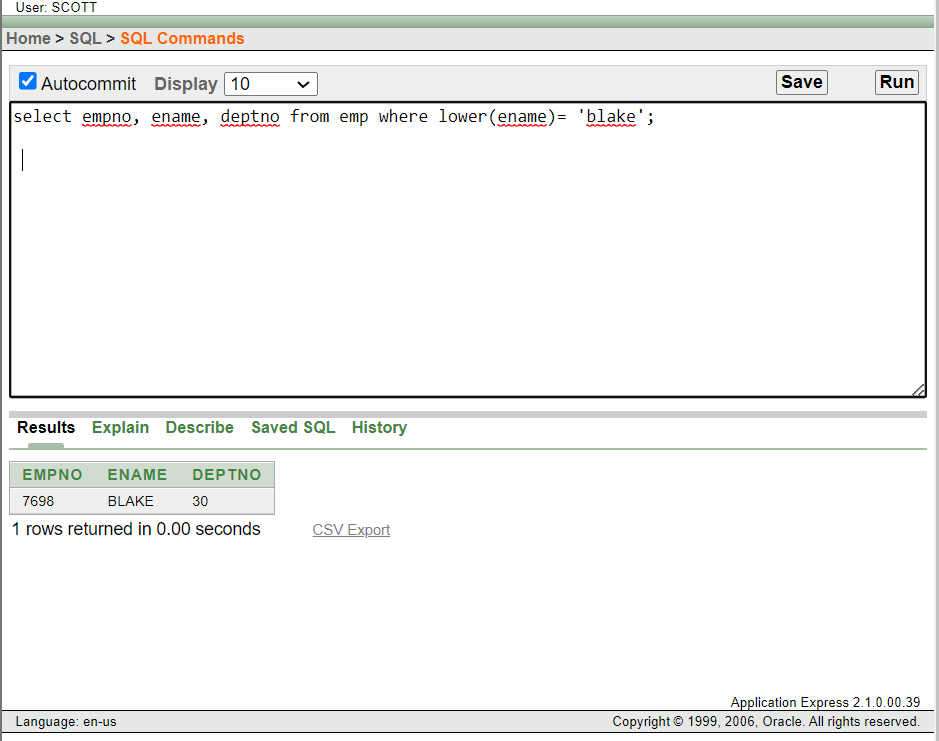
Lecture- 6:

1. Using Case Conversion Functions

select empno, ename, deptno from emp where ename= 'blake';

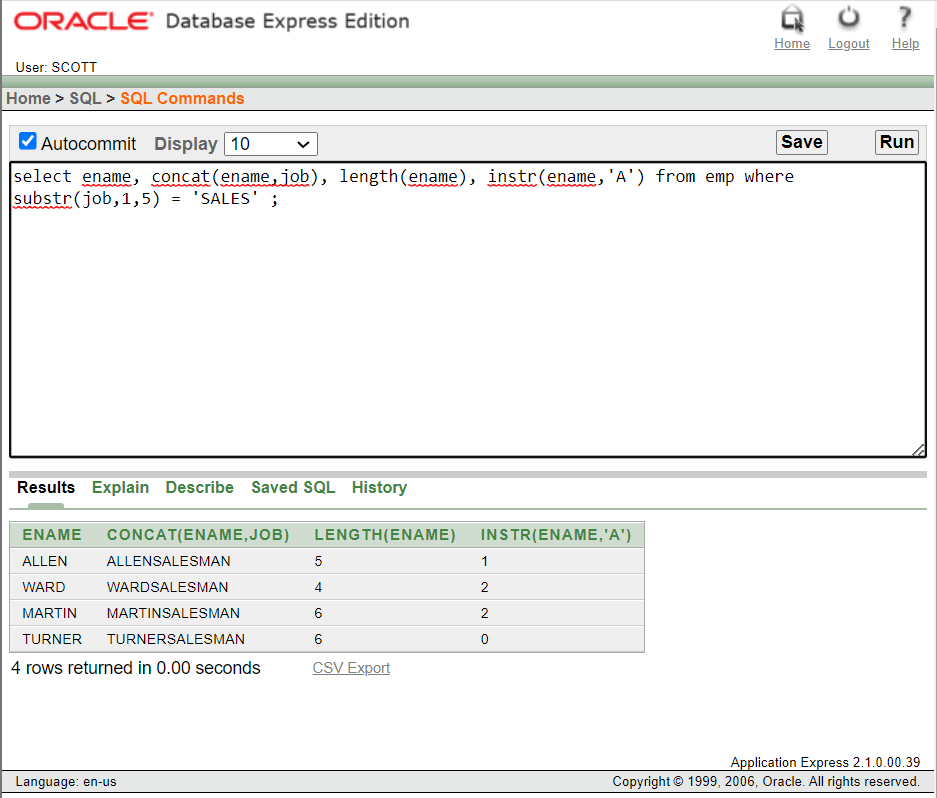


select empno, ename, deptno from emp where lower(ename)= 'blake' ;



1. Using the Character Manipulation Functions:

select ename, concat(ename,job), length(ename), instr(ename,'A') from emp where substr(job,1,5) = 'SALES' ;



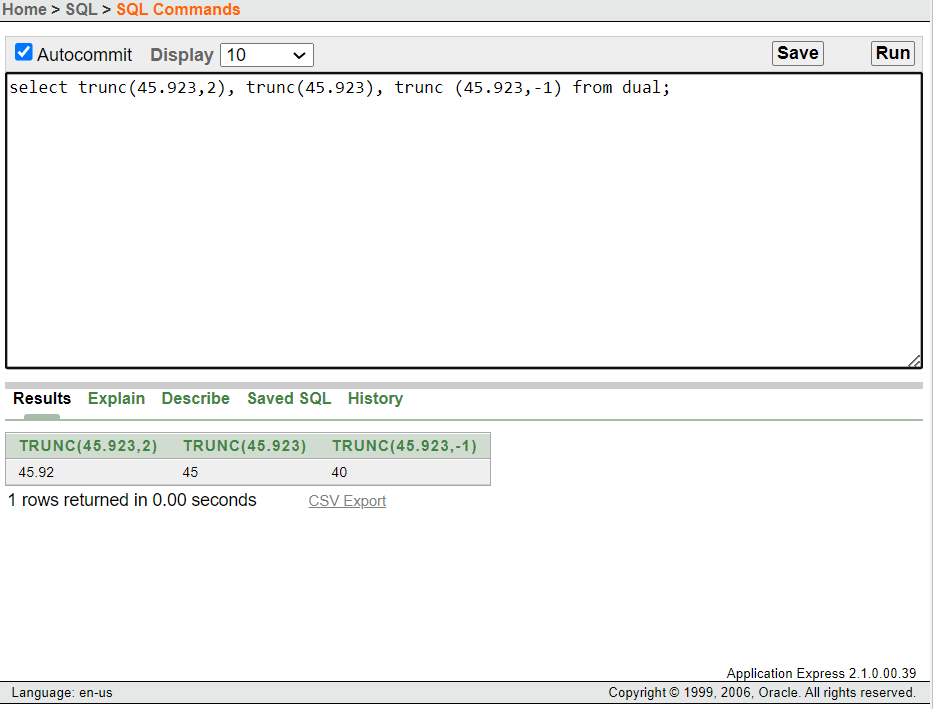
1. Using the ROUND Function:

select round (45.923,2) , round(45.923,0), round (45.923,-1) from dual;



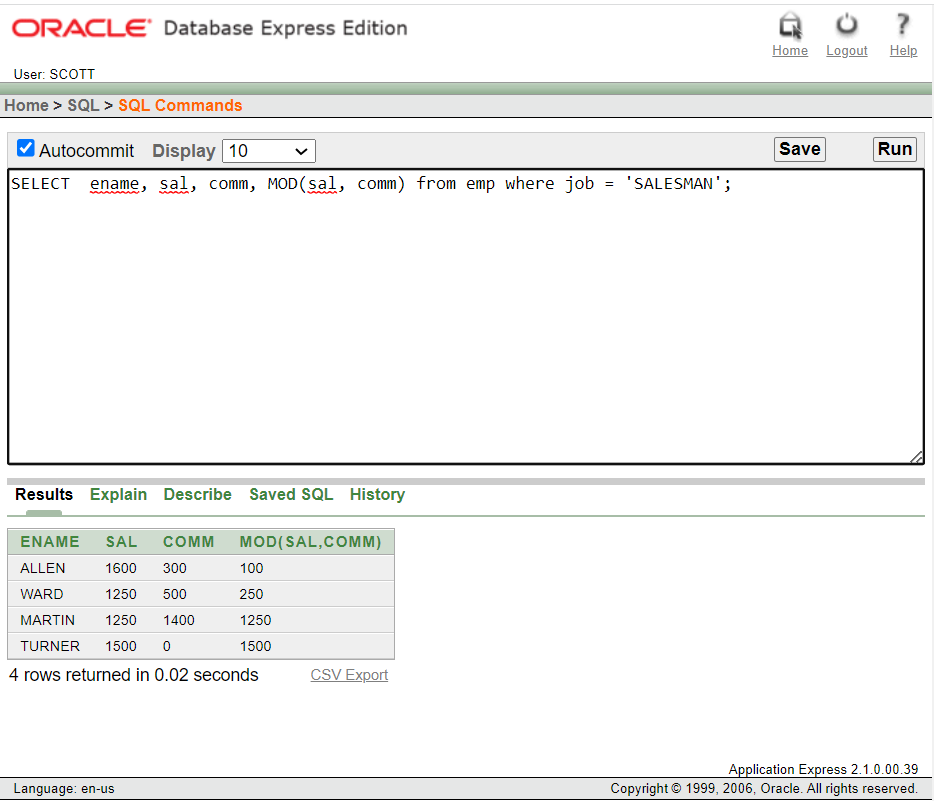
1. Using the TRUNC Function:

select trunc(45.923,2), trunc(45.923), trunc (45.923,-1) from dual;



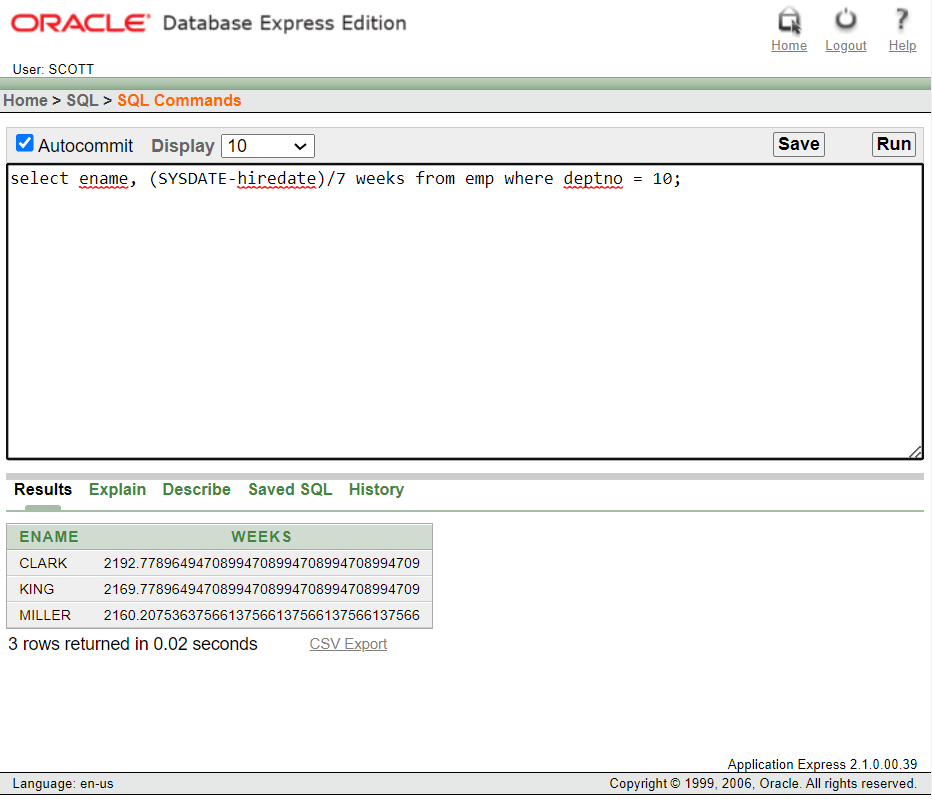
1. Using the MOD Function:

SELECT ename, sal, comm, MOD(sal, comm) from emp where job = 'SALESMAN';



1. Using Arithmetic Operators with Dates:

select ename, (SYSDATE-hiredate)/7 weeks from emp where deptno = 10;



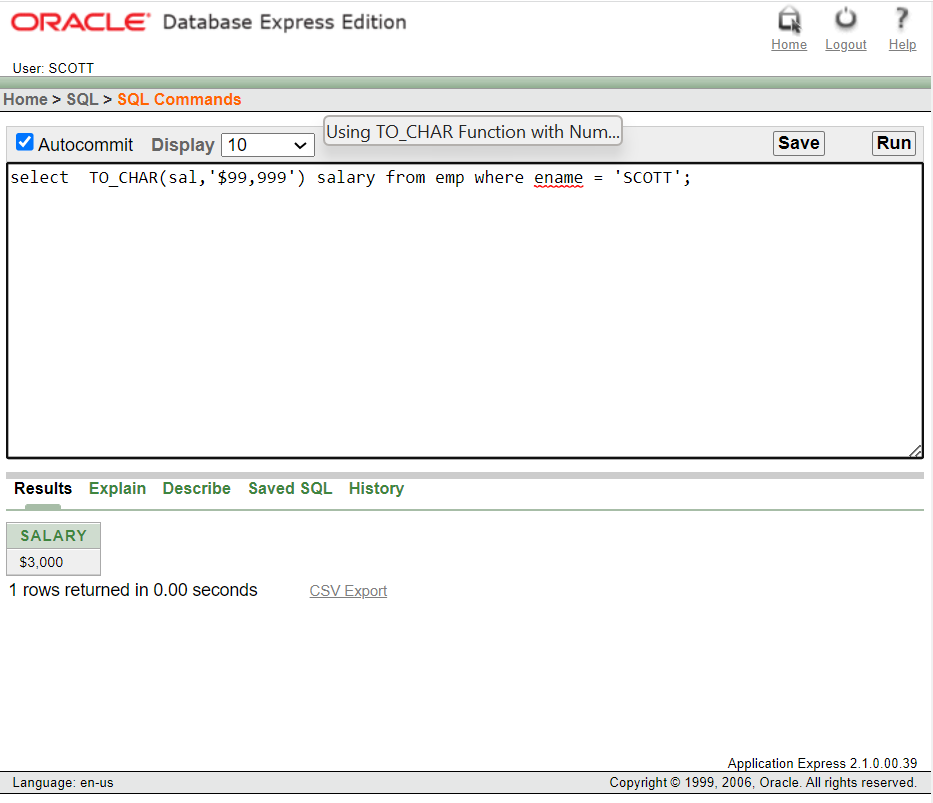
1. Using TO\_CHAR Function with Dates:

select ename , TO\_CHAR(hiredate, 'fmDD Month YYYY') HIREDATE from emp;



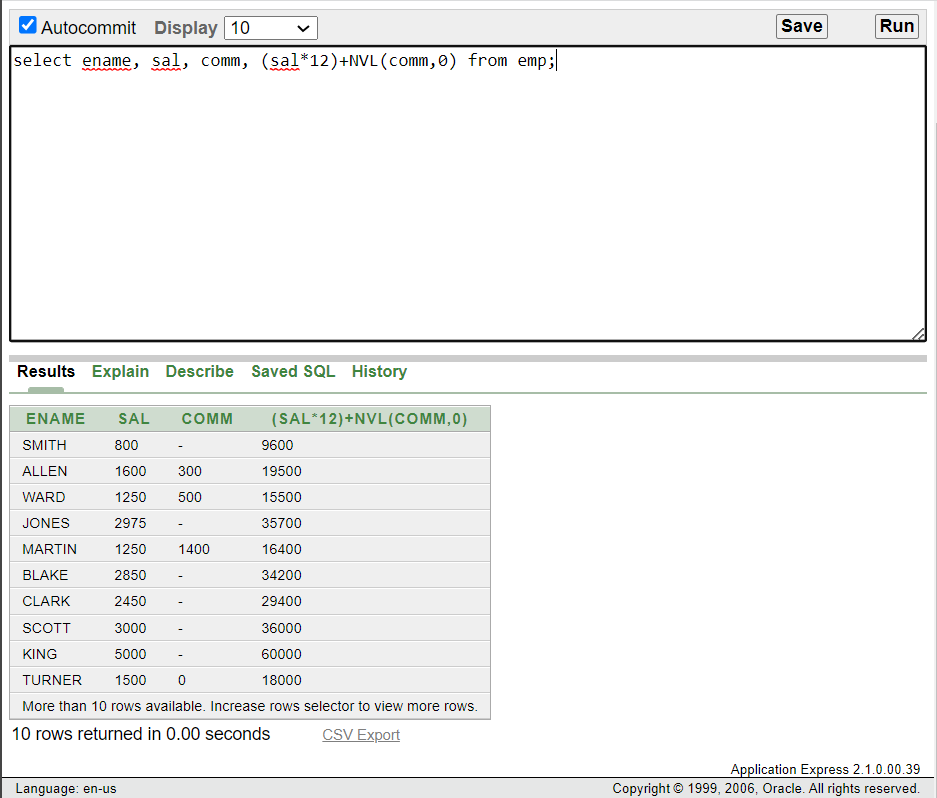
1. Using TO\_CHAR Function with Numbers:

select TO\_CHAR(sal,'$99,999') salary from emp where ename = 'SCOTT';



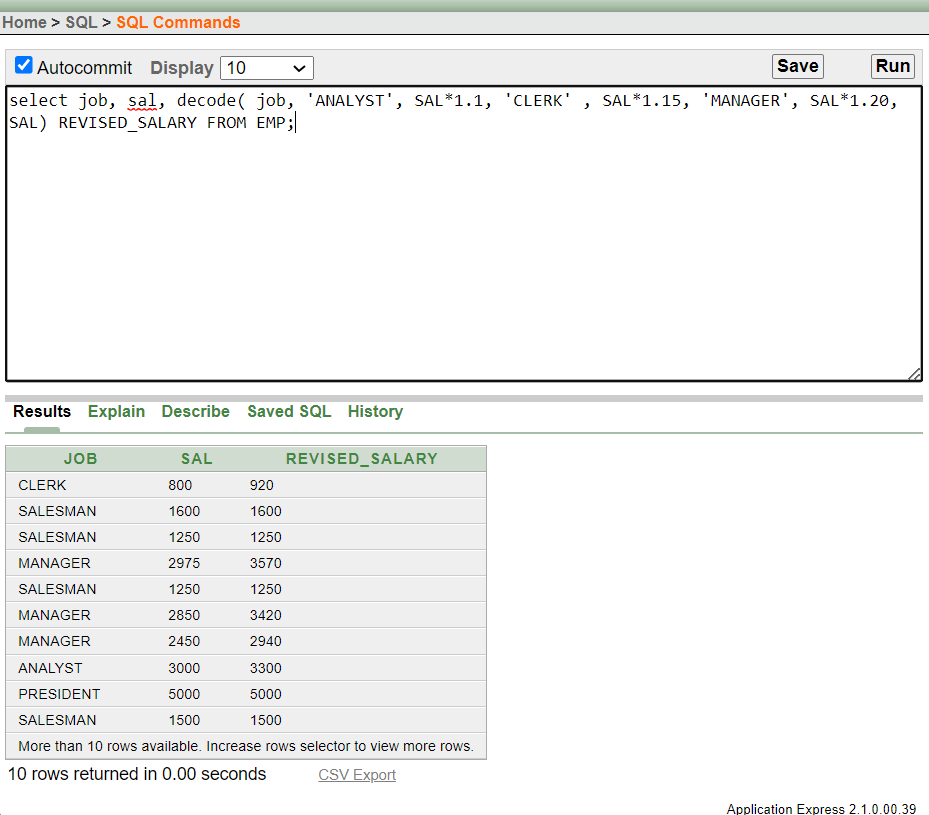
1. Using the NVL Function:

select ename, sal, comm, (sal\*12)+NVL(comm,0) from emp;



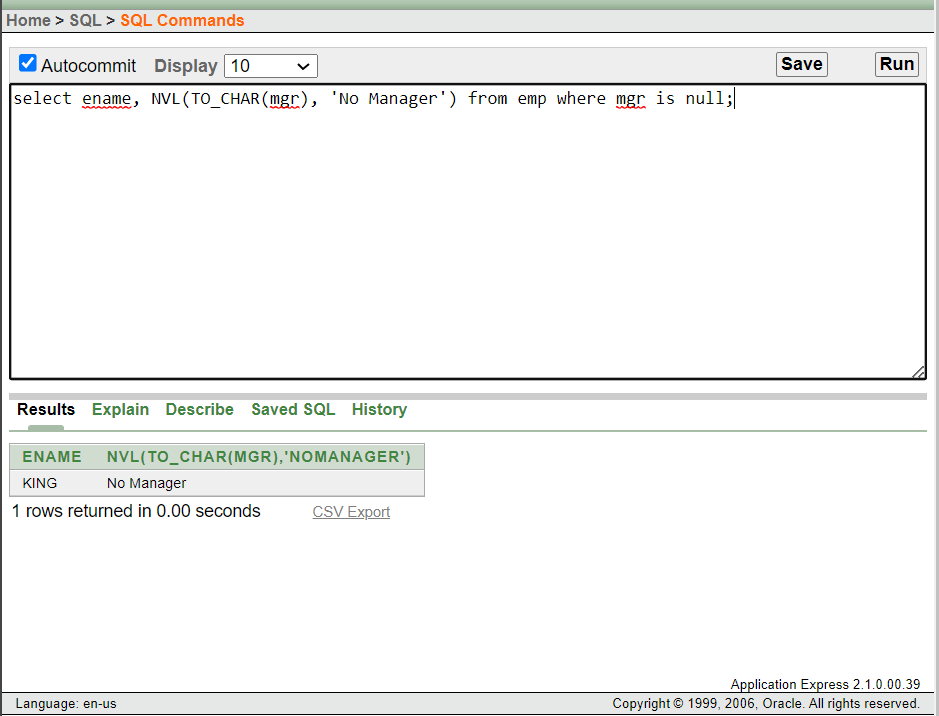
1. Using the DECODE Function:

select job, sal, decode( job, 'ANALYST', SAL\*1.1, 'CLERK' , SAL\*1.15, 'MANAGER', SAL\*1.20, SAL) REVISED\_SALARY FROM EMP;



1. Nesting Functions:

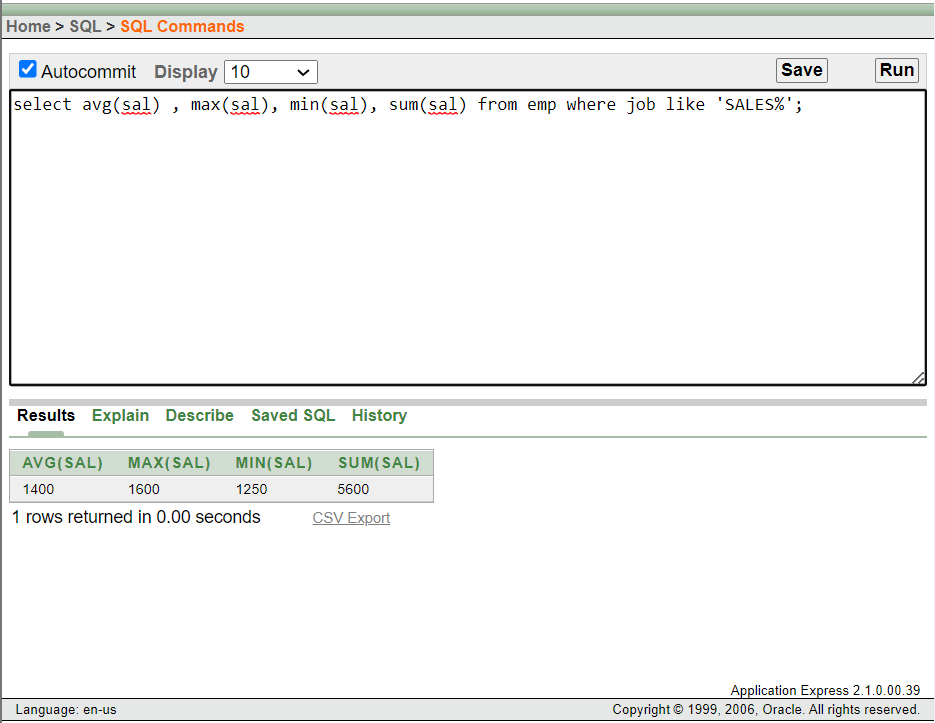
select ename, NVL(TO\_CHAR(mgr), 'No Manager') from emp where mgr is null;



Lecture- 8:

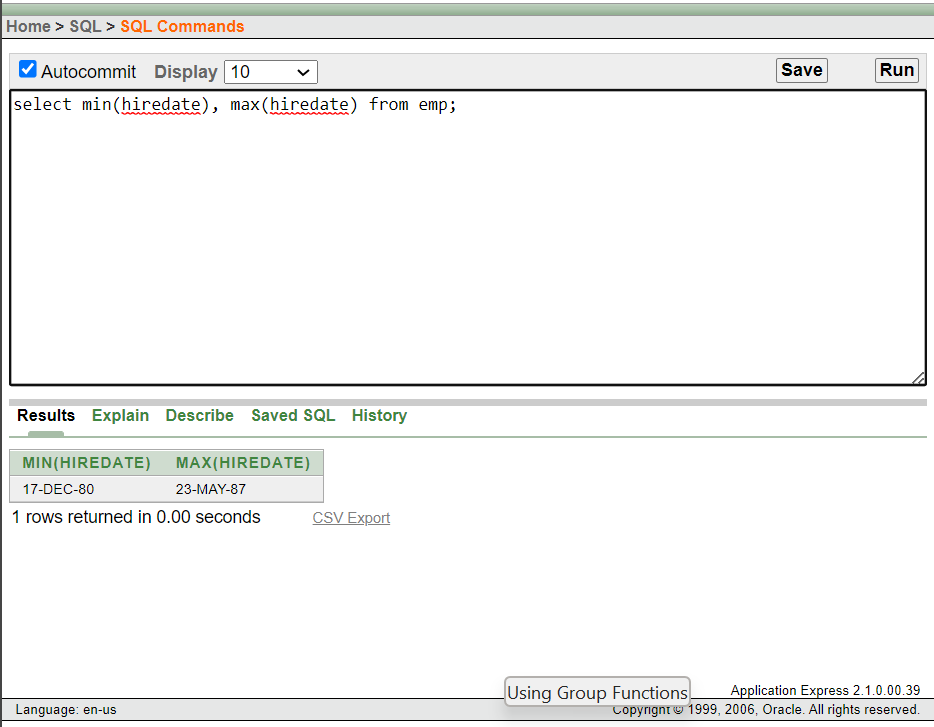
1. Using AVG and SUM Functions:

select avg(sal) , max(sal), min(sal), sum(sal) from emp where job like 'SALES%';

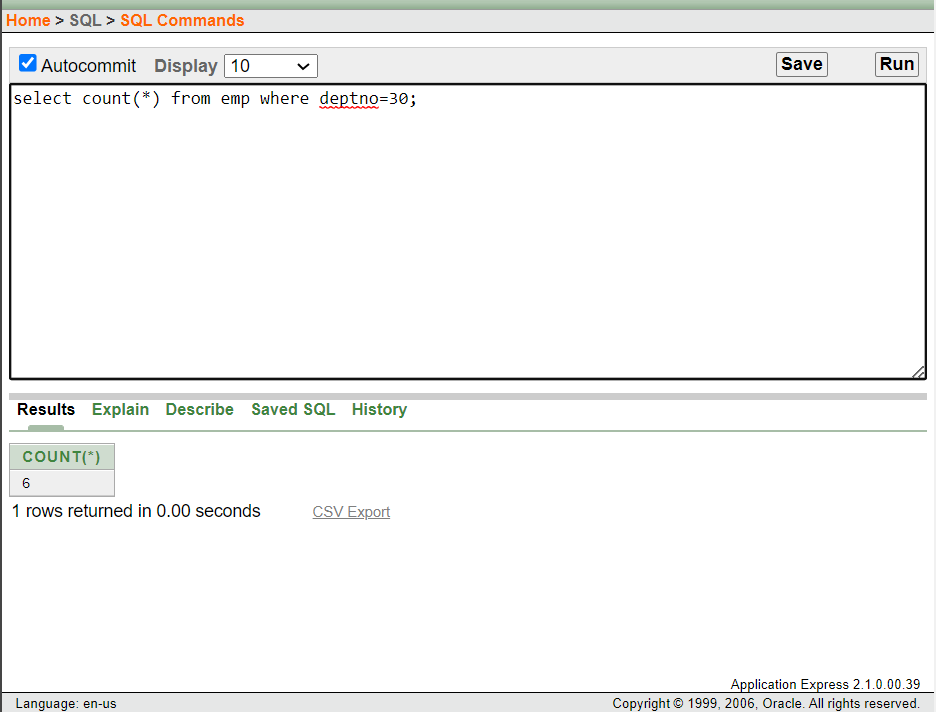


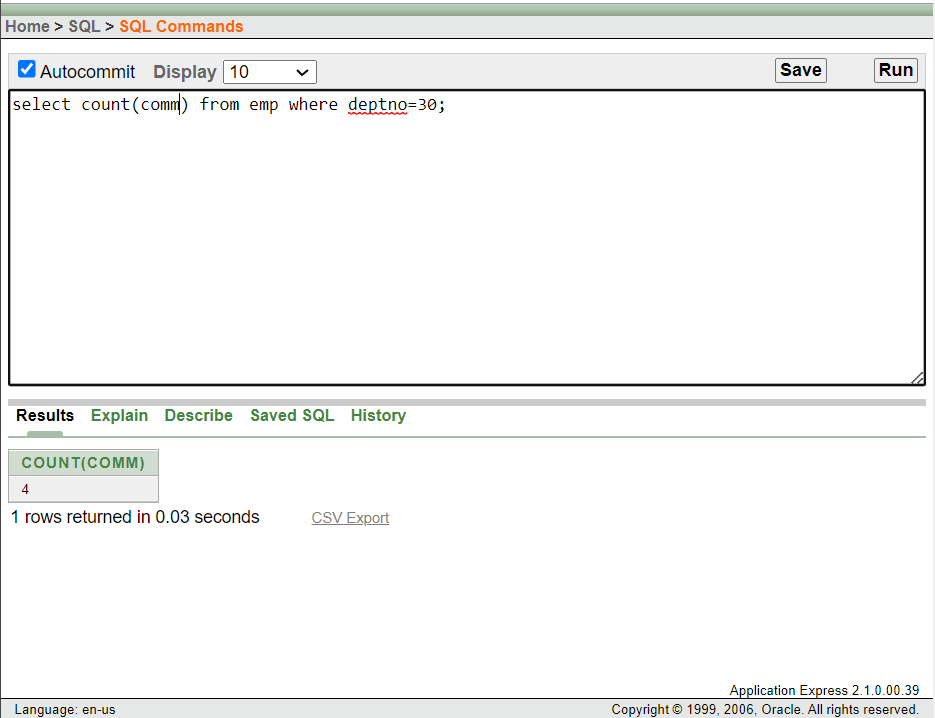
1. Using MIN and MAX Functions:

select min(hiredate), max(hiredate) from emp;

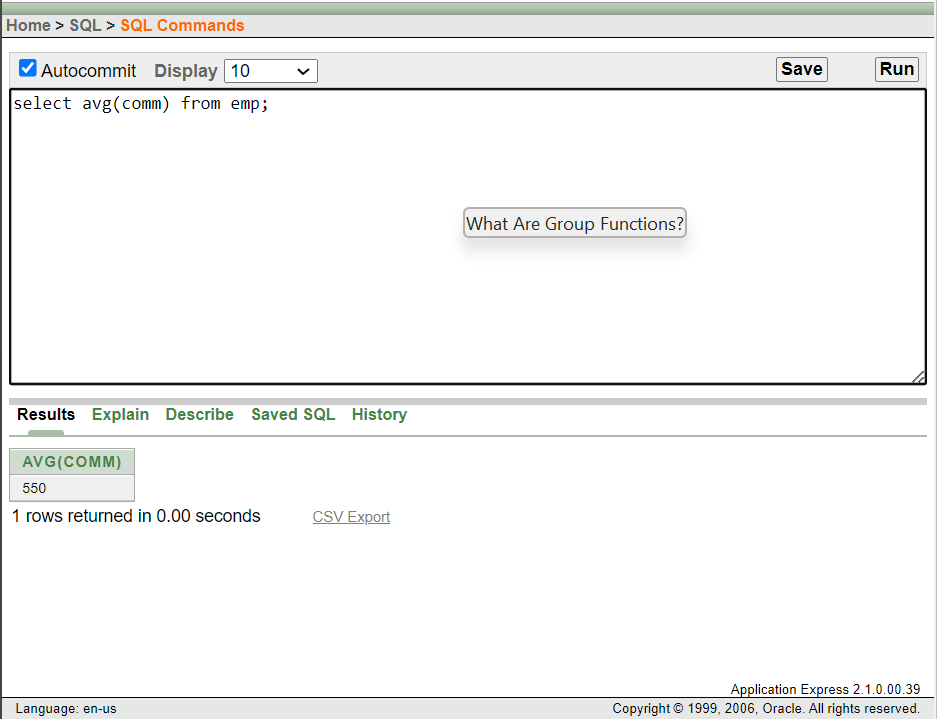


1. Using the COUNT Function:

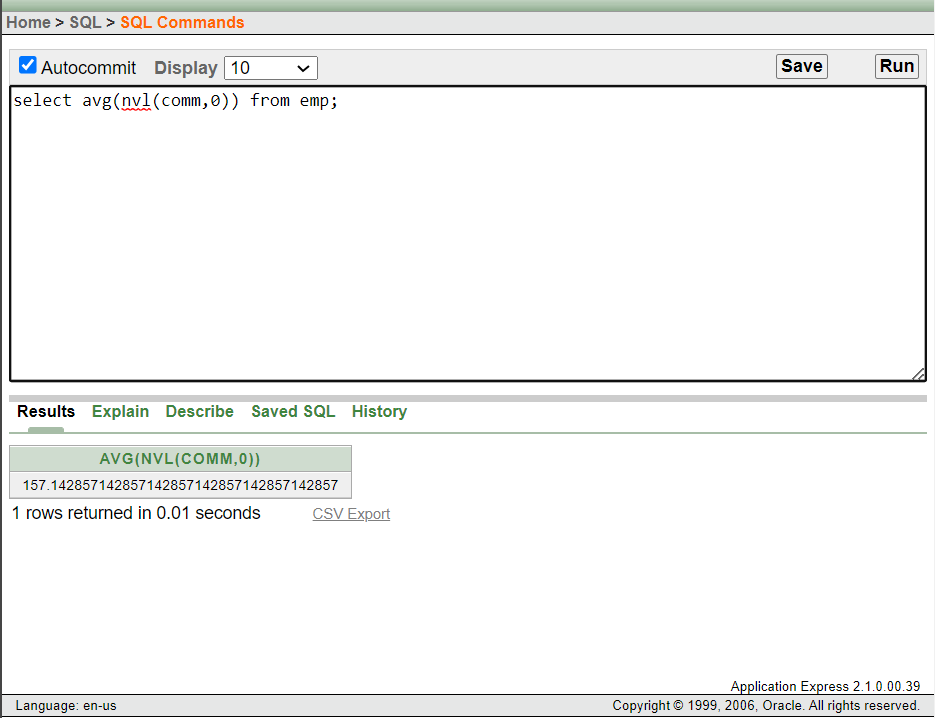




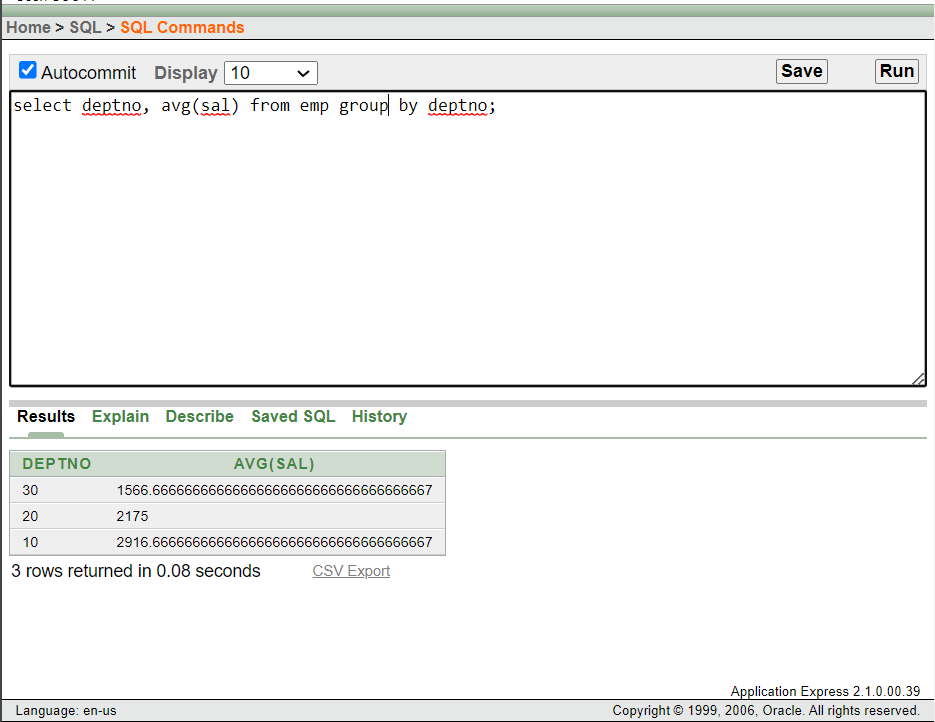
1. Group Functions and Null Values:

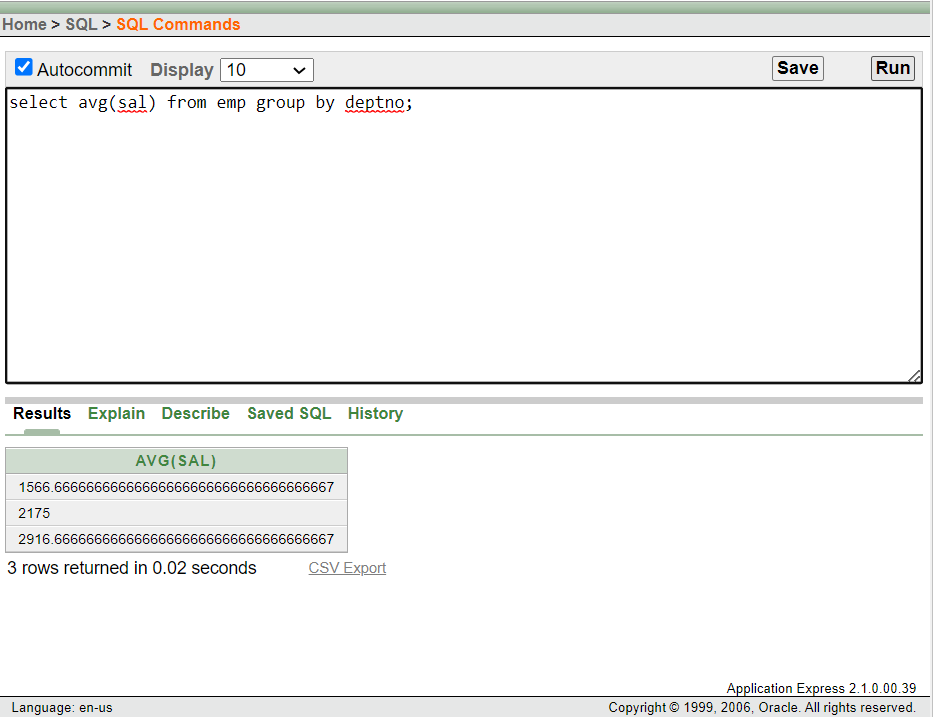


1. Using the NVL Function with Group Functions:

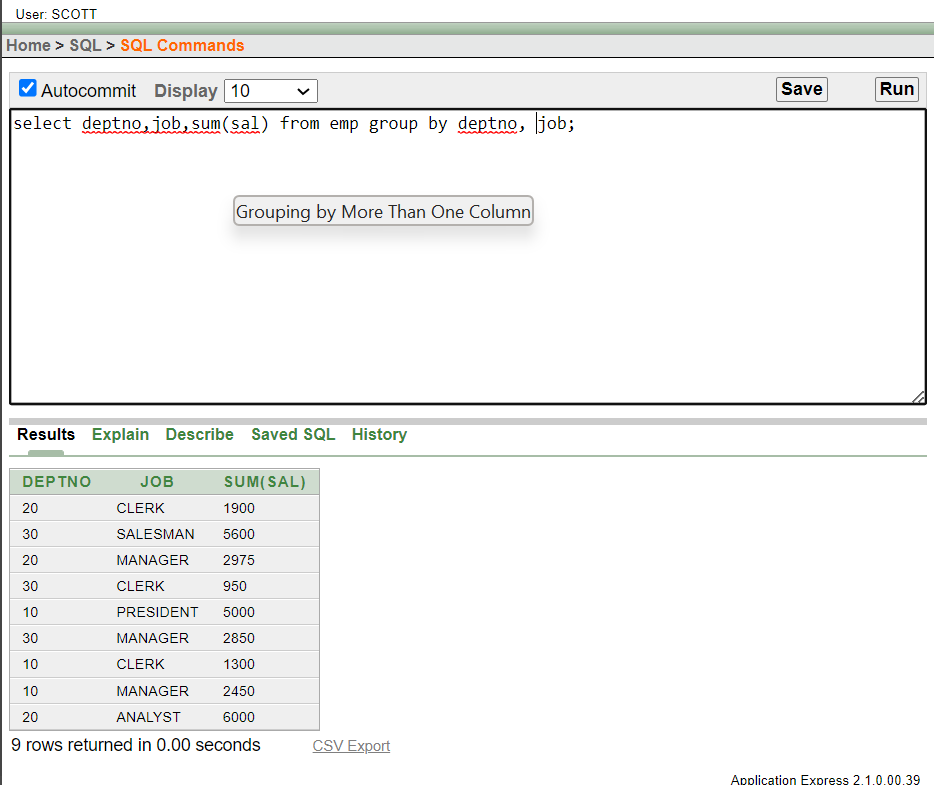


1. Using the GROUP BY Clause:

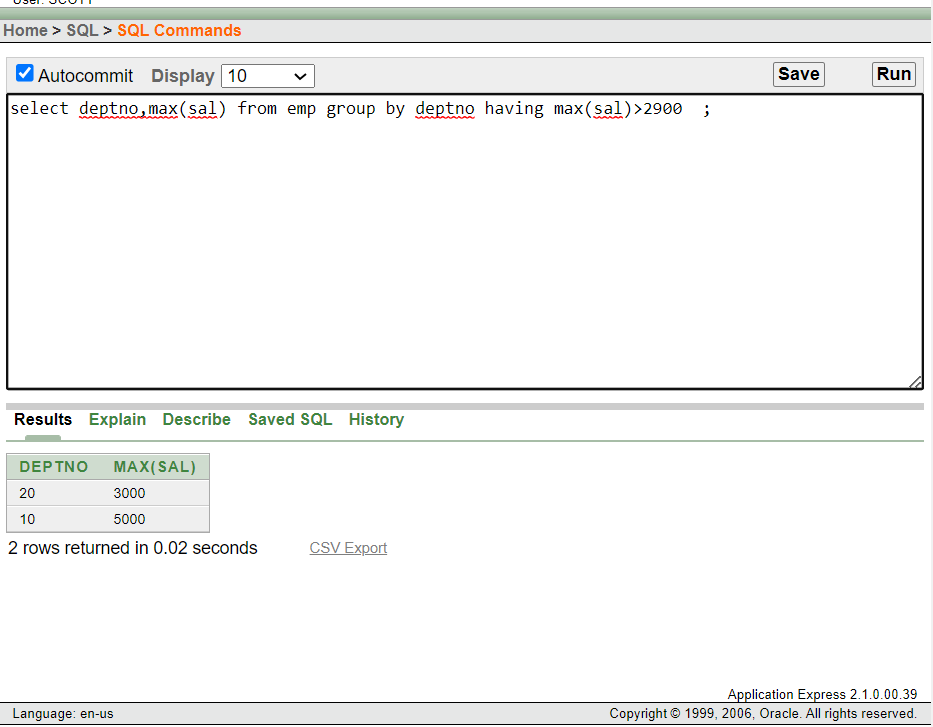




1. Using the GROUP BY Clause on Multiple Columns:



1. Using having clause :



A screenshot of a computer

Description automatically generated with medium confidence

1. Nesting Group function:

A screenshot of a computer

Description automatically generated with medium confidence