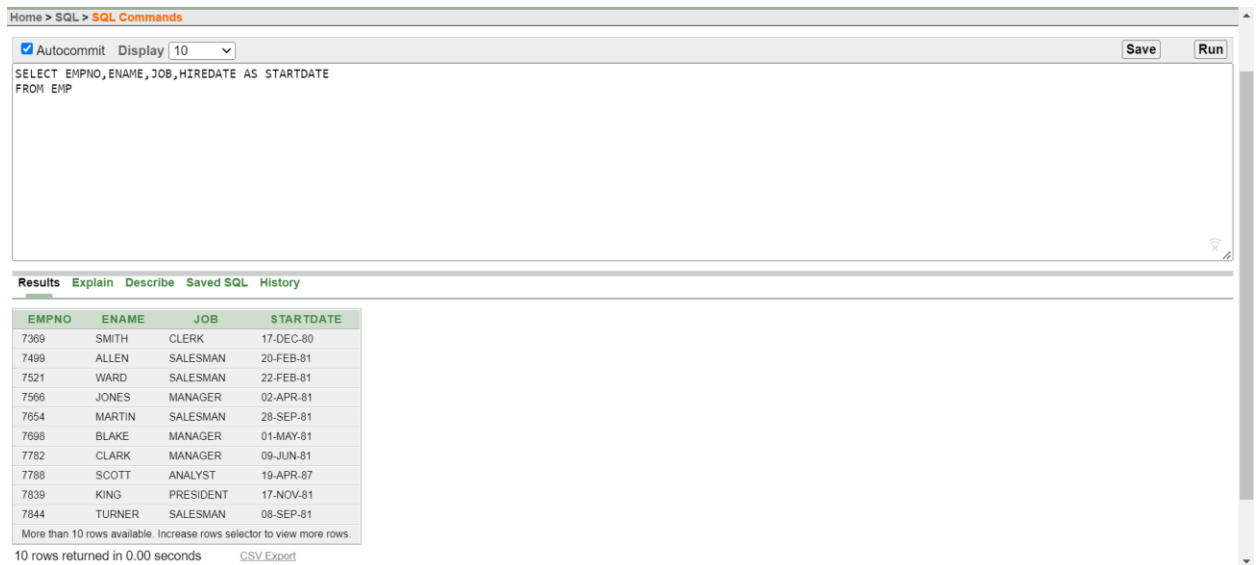


LAB TASK-2

PRACTICE-1

1. The HR department wants a query to display the ename, job, hiredate, and empno for each employee, with empno appearing first. Provide an alias "STARTDATE" for the HIREDATE column.



The screenshot shows the SQL Developer interface. The top bar indicates 'Home > SQL > SQL Commands'. Below the toolbar, the query is entered in the text area:

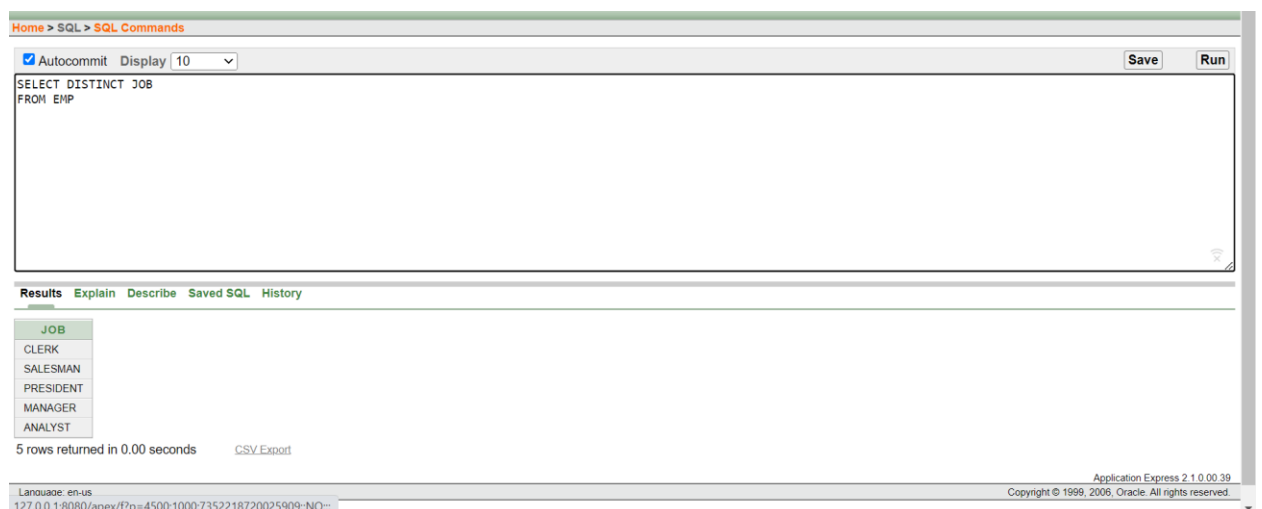
```
SELECT EMPNO, ENAME, JOB, HIREDATE AS STARTDATE
FROM EMP
```

The 'Results' tab is selected, displaying the following table:

EMPNO	ENAME	JOB	STARTDATE
7369	SMITH	CLERK	17-DEC-80
7499	ALLEN	SALESMAN	20-FEB-81
7521	WARD	SALESMAN	22-FEB-81
7566	JONES	MANAGER	02-APR-81
7654	MARTIN	SALESMAN	28-SEP-81
7698	BLAKE	MANAGER	01-MAY-81
7782	CLARK	MANAGER	09-JUN-81
7788	SCOTT	ANALYST	19-APR-87
7839	KING	PRESIDENT	17-NOV-81
7844	TURNER	SALESMAN	08-SEP-81

Below the table, it states 'More than 10 rows available. Increase rows selector to view more rows.' and '10 rows returned in 0.00 seconds'. A 'CSV Export' link is also present.

2. The HR department needs a query to display all unique job from the EMPLOYEES table.



The screenshot shows the SQL Developer interface. The top bar indicates 'Home > SQL > SQL Commands'. Below the toolbar, the query is entered in the text area:

```
SELECT DISTINCT JOB
FROM EMP
```

The 'Results' tab is selected, displaying the following table:

JOB
CLERK
SALESMAN
PRESIDENT
MANAGER
ANALYST

Below the table, it states '5 rows returned in 0.00 seconds'. A 'CSV Export' link is also present.

At the bottom of the window, the status bar shows 'Application Express 2.1.0.0.39 Copyright © 1999, 2006, Oracle. All rights reserved.'

LAB TASK-2

- The HR department wants more descriptive column headings for its report on employees. Name the column headings Emp # for empno, Employee for ename, Job for JOB, and Hire Date for HIREDATE, respectively. Then run your query again.

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT EMPNO AS "Emp#", ENAME AS "Employee", JOB AS "Job", HIREDATE AS "Hire Date"
FROM EMP
```

Results Explain Describe Saved SQL History

Emp#	Employee	Job	Hire Date
7369	SMITH	CLERK	17-DEC-80
7499	ALLEN	SALESMAN	20-FEB-81
7521	WARD	SALESMAN	22-FEB-81
7566	JONES	MANAGER	02-APR-81
7654	MARTIN	SALESMAN	28-SEP-81
7698	BLAKE	MANAGER	01-MAY-81
7782	CLARK	MANAGER	09-JUN-81
7788	SCOTT	ANALYST	19-APR-87
7839	KING	PRESIDENT	17-NOV-81
7844	TURNER	SALESMAN	08-SEP-81

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

10 rows returned in 0.00 seconds [CSV Export](#)

- The HR department has requested a report of all employees and their salary. Display the ename concatenated with the salary (separated by a comma and space) and name the column Employee and Title.

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT ENAME || ', ' || SAL AS "Employee and Title"
FROM EMP
```

Results Explain Describe Saved SQL History

Employee And Title
SMITH, 800
ALLEN, 1600
WARD, 1250
JONES, 2975
MARTIN, 1250
BLAKE, 2850
CLARK, 2450
SCOTT, 3000
KING, 5000
TURNER, 1500

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

10 rows returned in 0.00 seconds [CSV Export](#)

LAB TASK-2

5. To familiarize yourself with the data in the EMP table, create a query to display all the data from that table. Separate each column output by a comma. Name the column title THE_OUTPUT.

The screenshot shows the Oracle SQL Developer interface. The top bar indicates the user is logged in as 'SCOTT'. The main window is titled 'SQL Commands' and contains the following SQL query:

```
SELECT EMPNO || ',' || ENAME || ',' || JOB || ',' || MGR || ',' || HIREDATE || ',' || SAL || ',' || COMM || ',' || DEPTNO AS "THE_OUTPUT"  
FROM EMP
```

The query is executed, and the results are displayed in a table with the column header 'THE_OUTPUT'. The results show 10 rows of employee data, including EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, and DEPTNO. The status bar at the bottom indicates '10 rows returned in 0.02 seconds'.

THE_OUTPUT
7369,SMITH,CLERK,7902,17-DEC-80,800,20
7499,ALLEN,SALESMAN,7698,20-FEB-81,1600,300,30
7521,WARD,SALESMAN,7698,22-FEB-81,1250,500,30
7566,JONES,MANAGER,7839,02-APR-81,2975,20
7654,MARTIN,SALESMAN,7698,28-SEP-81,1250,1400,30
7698,BLAKE,MANAGER,7839,01-MAY-81,2850,30
7782,CLARK,MANAGER,7839,09-JUN-81,2450,10
7788,SCOTT,ANALYST,7566,19-APR-87,3000,20
7839,KING,PRESIDENT,17-NOV-81,5000,10
7844,TURNER,SALESMAN,7698,08-SEP-81,1500,0,30

6. List the deptno from emp uniquely.

The screenshot shows the Oracle SQL Developer interface. The top bar indicates the user is logged in as 'SCOTT'. The main window is titled 'SQL Commands' and contains the following SQL query:

```
SELECT DISTINCT DEPTNO  
FROM EMP
```

The query is executed, and the results are displayed in a table with the column header 'DEPTNO'. The results show 3 rows of department numbers: 30, 20, and 10. The status bar at the bottom indicates '3 rows returned in 0.00 seconds'.

DEPTNO
30
20
10

LAB TASK-2

7. Show the information of all employees like “SMITH go salary \$ 800”.

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT ENAME || ' ' || 'go' || ' ' || 'salary' || ' ' || '$' || ' ' || SAL
FROM EMP
```

Results Explain Describe Saved SQL History

ENAME ' ' 'GO' ' ' 'SALARY' ' ' '\$' ' ' SAL
SMITH go salary \$ 800
ALLEN go salary \$ 1600
WARD go salary \$ 1250
JONES go salary \$ 2975
MARTIN go salary \$ 1250
BLAKE go salary \$ 2850
CLARK go salary \$ 2450
SCOTT go salary \$ 3000
KING go salary \$ 5000
TURNER go salary \$ 1500

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

10 rows returned in 0.00 seconds [CSV Export](#)

8. Check whether all the empno are indeed unique.

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT EMPNO,
COUNT(*)
FROM EMP
GROUP BY EMPNO
```

Results Explain Describe Saved SQL History

EMPNO	COUNT(*)
7369	1
7499	1
7521	1
7566	1
7654	1
7698	1
7782	1
7788	1
7839	1
7844	1

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

10 rows returned in 0.00 seconds [CSV Export](#)

LAB TASK-2

9. List “Annual salary” for all employee use column aliasing.

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT ENAME, SAL, 12*SAL AS "Annual Salary"
FROM EMP
```

Results Explain Describe Saved SQL History

ENAME	SAL	Annual Salary
SMITH	800	9600
ALLEN	1600	19200
WARD	1250	15000
JONES	2975	35700
MARTIN	1250	15000
BLAKE	2850	34200
CLARK	2450	29400
SCOTT	3000	36000
KING	5000	60000
TURNER	1500	18000

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

10 rows returned in 0.00 seconds [CSV Export](#)

10. List the information for all employee whose job is either MANAGER or ANALYST.

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT*
FROM EMP
WHERE JOB IN ('MANAGER', 'ANALYST')
```

Results Explain Describe Saved SQL History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20

5 rows returned in 0.00 seconds [CSV Export](#)

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Language: en-us

LAB TASK-2

11. List the department name whose department no is 20.

ORACLE Database Express Edition

User: SCOTT

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT*  
FROM EMP  
WHERE DEPTNO=20
```

Results Explain Describe Saved SQL History

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20

5 rows returned in 0.02 seconds [CSV Export](#)

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LAB TASK-2

PRACTICE-2

1. Create a query to display the name,salary,commision of employees earning more than \$2850.



The screenshot shows the Oracle SQL Developer interface. The top bar indicates the path: Home > SQL > SQL Commands. Below this, there are tabs for Autocommit (checked), Display (10), Save, and Run. The main text area contains the following SQL query:

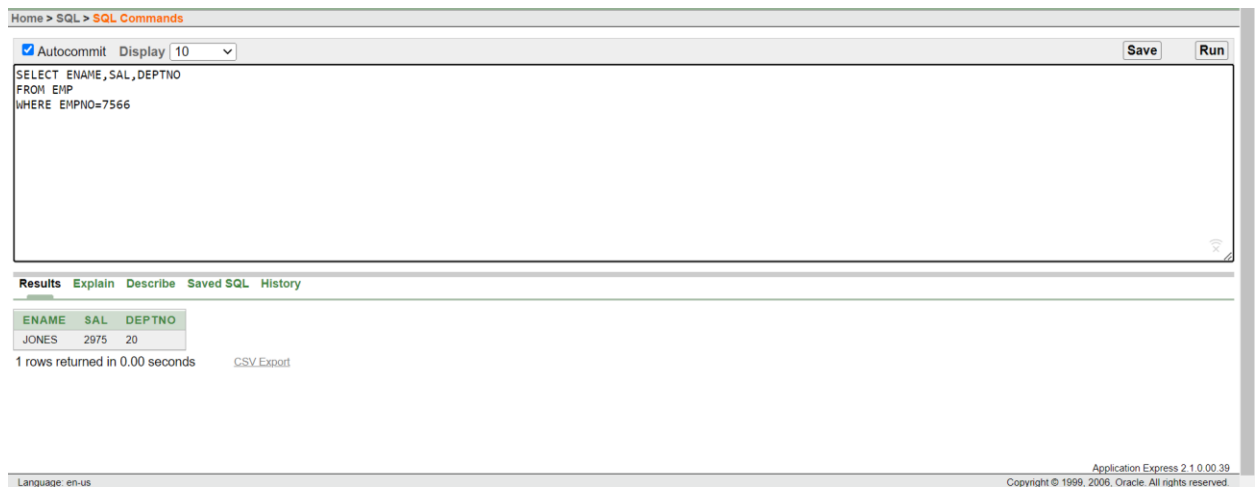
```
SELECT ENAME,SAL,COMM
FROM EMP
WHERE SAL>2850
```

Below the query editor, there are tabs for Results, Explain, Describe, Saved SQL, and History. The Results tab is active, displaying a table with the following data:

ENAME	SAL	COMM
JONES	2975	-
SCOTT	3000	-
KING	5000	-
FORD	3000	-

Below the table, it states "4 rows returned in 0.00 seconds" and provides a "CSV Export" link. The bottom status bar shows "Language: en-us" and "Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved."

2. Create a query to display the employee name,salary and department number for employee number 7566.



The screenshot shows the Oracle SQL Developer interface. The top bar indicates the path: Home > SQL > SQL Commands. Below this, there are tabs for Autocommit (checked), Display (10), Save, and Run. The main text area contains the following SQL query:

```
SELECT ENAME,SAL,DEPTNO
FROM EMP
WHERE EMPNO=7566
```

Below the query editor, there are tabs for Results, Explain, Describe, Saved SQL, and History. The Results tab is active, displaying a table with the following data:

ENAME	SAL	DEPTNO
JONES	2975	20

Below the table, it states "1 rows returned in 0.00 seconds" and provides a "CSV Export" link. The bottom status bar shows "Language: en-us" and "Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved."

LAB TASK-2

3. Display the name and salary for all employees whose salary is not in the range of \$1500 and \$2850.

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT ENAME,SAL
FROM EMP
WHERE SAL NOT BETWEEN 1500 AND 2850
```

Results Explain Describe Saved SQL History

ENAME	SAL
SMITH	800
WARD	1250
JONES	2975
MARTIN	1250
SCOTT	3000
KING	5000
ADAMS	1100
JAMES	950
FORD	3000
MILLER	1300

10 rows returned in 0.00 seconds [CSV Export](#)

4. Display the employee name, job, and start date of employees hired between February 20, 1981, and May 1, 1981. Order the query in ascending order by start date.

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT ENAME,JOB,HIREDATE
FROM EMP
WHERE HIREDATE BETWEEN '20-FEB-1981' AND '1-MAY-1981'
ORDER BY HIREDATE ASC
```

Results Explain Describe Saved SQL History

ENAME	JOB	HIREDATE
ALLEN	SALESMAN	20-FEB-81
WARD	SALESMAN	22-FEB-81
JONES	MANAGER	02-APR-81
BLAKE	MANAGER	01-MAY-81

4 rows returned in 0.00 seconds [CSV Export](#)

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LAB TASK-2

5. Display the employee name and department number of all employees in departments 10 and 30 in alphabetical order by name.

Home > SQL > **SQL Commands**

☒ Autocommit Display 10 Save Run

```
SELECT ENAME,DEPTNO
FROM EMP
WHERE DEPTNO IN (10,30)
ORDER BY ENAME ASC
```

Results Explain Describe Saved SQL History

ENAME	DEPTNO
ALLEN	30
BLAKE	30
CLARK	10
JAMES	30
KING	10
MARTIN	30
MILLER	10
TURNER	30
WARD	30

9 rows returned in 0.02 seconds [CSV Export](#)

Application Express 2.1.0.00.39

6. Display list the name and salary of employees who earn more than \$1500 and in department 20 or 30. Label the columns Employee and Monthly Salary, respectively.

Home > SQL > **SQL Commands**

☒ Autocommit Display 10 Save Run

```
SELECT ENAME AS "Employee", SAL AS "Monthly Salary"
FROM EMP
WHERE SAL>1500 AND (DEPTNO=20 OR DEPTNO=30)
```

Results Explain Describe Saved SQL History

Employee	Monthly Salary
ALLEN	1600
JONES	2975
BLAKE	2850
SCOTT	3000
FORD	3000

5 rows returned in 0.00 seconds [CSV Export](#)

Language: en-us Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.

LAB TASK-2

7. Display the name and hire date of every employee who was hired in 1982.

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT ENAME, HIREDATE
FROM EMP
WHERE HIREDATE LIKE '____82%'
```

Results Explain Describe Saved SQL History

ENAME	HIREDATE
MILLER	23-JAN-82

1 rows returned in 0.00 seconds [CSV Export](#)

Language: en-us Application Express 2.1.0.00.39
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8. Display the name and job title of all employees who do not have a manager.

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT ENAME, JOB
FROM EMP
WHERE JOB NOT IN 'MANAGER'
```

Results Explain Describe Saved SQL History

ENAME	JOB
SMITH	CLERK
ALLEN	SALESMAN
WARD	SALESMAN
MARTIN	SALESMAN
SCOTT	ANALYST
KING	PRESIDENT
TURNER	SALESMAN
ADAMS	CLERK
JAMES	CLERK
FORD	ANALYST

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

10 rows returned in 0.02 seconds [CSV Export](#)

LAB TASK-2

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

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT ENAME, SAL, COMM
FROM EMP
WHERE COMM1=0
ORDER BY SAL, COMM DESC
```

Results Explain Describe Saved SQL History

ENAME	SAL	COMM
MARTIN	1250	1400
WARD	1250	500
ALLEN	1600	300

3 rows returned in 0.00 seconds [CSV Export](#)

Language: en-us Application Express 2.1.0.00.39
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10. Display the names of all employees where the third letter of their name is an A.

Home > SQL > SQL Commands

☒ Autocommit Display 10 Save Run

```
SELECT ENAME
FROM EMP
WHERE ENAME LIKE ' __A%'
```

Results Explain Describe Saved SQL History

ENAME
BLAKE
CLARK
ADAMS

3 rows returned in 0.00 seconds [CSV Export](#)

Language: en-us Application Express 2.1.0.00.39
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LAB TASK-2

11. Display the name of all employees who have two Ls in their name and are in department 30 or their manager is 7782.

The screenshot shows the SQL Developer interface. The top bar indicates 'Home > SQL > SQL Commands'. Below the bar, there are checkboxes for 'Autocommit' and 'Display' set to '10'. The query text area contains the following SQL statement:

```
SELECT ENAME
FROM EMP
WHERE ENAME LIKE '%LL%' AND DEPTNO=30 OR EMPNO=7782
```

Below the query area, the 'Results' tab is selected, showing the following data:

ENAME
ALLEN
CLARK

Below the table, it states '2 rows returned in 0.01 seconds' and provides a 'CSV Export' link. The bottom status bar shows 'Language: en-us' and 'Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.'

12. Display the name, job, and salary for all employees whose job is Clerk or Analyst and their salary is not equal to \$1000, \$3000, or \$5000.

The screenshot shows the SQL Developer interface. The top bar indicates 'Home > SQL > SQL Commands'. Below the bar, there are checkboxes for 'Autocommit' and 'Display' set to '10'. The query text area contains the following SQL statement:

```
SELECT ENAME, JOB, SAL
FROM EMP
WHERE JOB IN ('CLERK', 'ANALYST') AND SAL NOT IN (1000, 3000, 5000)
```

Below the query area, the 'Results' tab is selected, showing the following data:

ENAME	JOB	SAL
SMITH	CLERK	800
ADAMS	CLERK	1100
JAMES	CLERK	950
MILLER	CLERK	1300

Below the table, it states '4 rows returned in 0.00 seconds' and provides a 'CSV Export' link. The bottom status bar shows 'Language: en-us' and 'Application Express 2.1.0.00.39 Copyright © 1999, 2006, Oracle. All rights reserved.'

LAB TASK-2

13. Display the name, salary, and commission for all employees whose commission amount is greater than their salary increased by 10%.

Home > SQL > SQL Commands

☒ Autocommit Display: 10 [Save](#) [Run](#)

```
SELECT ENAME, SAL, COMM
FROM EMP
WHERE COMM > SAL + (SAL * 0.1)
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

ENAME	SAL	COMM
MARTIN	1250	1400

1 rows returned in 0.00 seconds [CSV Export](#)

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