LAB TASK-2

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.

Autocommit Display 10

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

Results Explain Describe Saved SQL History

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

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

10 rows returned in 0.01 seconds CSV Export

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

```
SELECT DISTINCT JOB
FROM EMP
```

Results Explain Describe Saved SQL History

JOB
CLERK
SALESMAN
PRESIDENT
MANAGER
ANALYST

3.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.

```
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

4.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.

Autocommit Display 10

```
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.

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.

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

Results Explain Describe Saved SQL History

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

6. List the deptno from emp uniquely.

```
SELECT DISTINCT DEPTNO
FROM EMP
```

Results Explain Describe Saved SQL History

DEPTNO
30
20
10

3 rows returned in 0.02 seconds CSV Export

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

Autocommit Display 10

```
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.

8. Check whether all the empno are indeed unique.

```
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.

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

Autocommit Display 10

```
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 0.01 seconds CSV Export

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

```
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 0.02 seconds CSV Export

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

Autocommit Display 10

```
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 0.00 seconds CSV Export

Practice-2:

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

Autocommit Display 10

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

Results Explain Describe Saved SQL History

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

4 rows returned in 0.00 seconds CSV Export

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

Autocommit Display 10

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

Results Explain Describe Saved SQL Histor

ENAME	SAL	DEPTNO
JONES	2975	20

1 rows returned in 0.00 seconds CSV Export

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

Autocommit Display 10

```
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.

Autocommit Display 10

```
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

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

Autocommit Display 10

```
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 0.01 seconds CSV Export

6.Display list the name and salary of employees who earn more than $1500 and in department 10 or 30. Label the columns Employee and Monthly Salary, respectively

Autocommit Display 10

```
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

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

Autocommit Display 10

```
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

8.Display the name and job title of all employees who do not have a manager.

Autocommit Display 10

```
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.

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

Autocommit Display 10

```
SELECT ENAME, SAL, COMM
FROM EMP
WHERE COMM! =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

10. Display the names of all employees where the third letter of their name is an *A*.

Autocommit Display 10

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

Results Explain Describe Saved SQL Histor

ENAME
BLAKE
CLARK
ADAMS

3 rows returned in 0.00 seconds CSV Export

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

Autocommit Display 10

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

Results Explain Describe Saved SQL History

ENAME
ALLEN
CLARK

2 rows returned in 0.00 seconds CSV Export

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.

Autocommit Display 10

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

Results Explain Describe Saved SQL History

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

4 rows returned in 0.01 seconds CSV Export

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

Autocommit Display 10

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

Results Explain Describe Saved SQL

ENAME	SAL	COMM
MARTIN	1250	1400

1 rows returned in 0.00 seconds CS