Query 1: Write a query to display name, job, hiredate and employee number for each employee with employee number appearing first.

MariaDB [employee]> select empno,ename,job,hiredate from emp;

+-------+--------+-----------+------------+

| empno | ename | job | hiredate |

+-------+--------+-----------+------------+

| 7369 | SMITH | CLERK | 1980-12-17 |

| 7499 | ALLEN | SALESMAN | 1981-02-20 |

| 7521 | WARD | SALESMAN | 1981-02-22 |

| 7566 | JONES | MANAGER | 1981-04-02 |

| 7654 | MARTIN | SALSEMAN | 1981-09-28 |

| 7698 | BLAKE | MANAGER | 1981-05-01 |

| 7782 | CLERK | MANAGER | 1981-06-09 |

| 7788 | SCOTT | ANALYST | 1982-12-09 |

| 7839 | KING | PRESIDENT | 1981-11-17 |

| 7844 | TURNER | SALESMAN | 1981-09-08 |

| 7876 | ADAMS | CLERK | 1983-01-12 |

| 7900 | JAMES | CLERK | 1981-12-03 |

| 7902 | FORD | ANALYST | 0000-00-00 |

| 7932 | MILLER | CLERK | 1982-01-23 |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

Query 2: Write a query to display unique jobs from the employee table.

MariaDB [employee]> select DISTINCT job from emp;

+-----------+

| job |

+-----------+

| CLERK |

| SALESMAN |

| MANAGER |

| SALSEMAN |

| ANALYST |

| PRESIDENT |

|  |
| --- |
|  |

Query 3: Write a query to display name concatenated by a job separated by a comma.

MariaDB [employee]> select CONCAT(ename,',',job) as NAME\_JOB from emp;

+-----------------+

| NAME\_JOB |

+-----------------+

| SMITH,CLERK |

| ALLEN,SALESMAN |

| WARD,SALESMAN |

| JONES,MANAGER |

| MARTIN,SALSEMAN |

| BLAKE,MANAGER |

| CLERK,MANAGER |

| SCOTT,ANALYST |

| KING,PRESIDENT |

| TURNER,SALESMAN |

| ADAMS,CLERK |

| JAMES,CLERK |

| FORD,ANALYST |

| MILLER,CLERK |

+-----------------+

Query 4: Write a query to display the name and salary of employees earning more than $2850.

MariaDB [employee]> select ename,sal from emp where sal>2850;

+-------+---------+

| ename | sal |

+-------+---------+

| JONES | 2975.00 |

| SCOTT | 3000.00 |

| KING | 5000.00 |

| FORD | 3000.00 |

+-------+---------+

Query 5: Write a query to display the name and department number for employee number 7900.

MariaDB [employee]> select ename,deptno from emp where empno=7900;

+-------+--------+

| ename | deptno |

+-------+--------+

| JAMES | 30 |

+-------+--------+

Query 6: Write a query to display the name and salary of all employees whose salary is not in the range of $1500 and $2850.

MariaDB [employee]> select ename,sal from emp where sal not between 1500 and 2850;

+--------+---------+

| ename | sal |

+--------+---------+

| SMITH | 800.00 |

| WARD | 1250.00 |

| JONES | 2975.00 |

| MARTIN | 1250.00 |

| SCOTT | 3000.00 |

| KING | 5000.00 |

| ADAMS | 1100.00 |

| JAMES | 950.00 |

| FORD | 3000.00 |

| MILLER | 1300.00 |

+--------+---------+

Query 7: Write a query to display the name and department number of all employees in departments 10 and 30 in alphabetical order by name.

MariaDB [employee]> select ename,deptno from emp where deptno=10 OR deptno=30 ORDER BY ename;

+--------+--------+

| ename | deptno |

+--------+--------+

| ALLEN | 30 |

| BLAKE | 30 |

| CLERK | 10 |

| JAMES | 30 |

| KING | 10 |

| MARTIN | 30 |

| MILLER | 10 |

| TURNER | 30 |

| WARD | 30 |

+--------+--------+

Query 8: Write a query to display the name and salary of employees who earned more than

$1500 and are in department number 10 or 30.

MariaDB [employee]> select ename,sal from emp where sal>1500;

+-------+---------+

| ename | sal |

+-------+---------+

| ALLEN | 1600.00 |

| JONES | 2975.00 |

| BLAKE | 2850.00 |

| CLERK | 2450.00 |

| SCOTT | 3000.00 |

| KING | 5000.00 |

| FORD | 3000.00 |

+-------+---------+

Query 9: Write a query to display the name and hire date of every employee who was hired in 1981.

MariaDB [employee]> select ename,hiredate from emp where EXTRACT(YEAR FROM hiredate)=1981;

+--------+------------+

| ename | hiredate |

+--------+------------+

| ALLEN | 1981-02-20 |

| WARD | 1981-02-22 |

| JONES | 1981-04-02 |

| MARTIN | 1981-09-28 |

| BLAKE | 1981-05-01 |

| CLERK | 1981-06-09 |

| KING | 1981-11-17 |

| TURNER | 1981-09-08 |

| JAMES | 1981-12-03 |

+--------+------------+

Query 10: Write a query to display the name and job of all employees who do not have a manager.

MariaDB [employee]> select ename,job from emp where mgr IS NULL;

+-------+-----------+

| ename | job |

+-------+-----------+

| KING | PRESIDENT |

+-------+-----------+

Query 11 : Write a query to display the name, salary and commission for all employees who earn commission. Sort the data in descending order of salary.

MariaDB [employee]> select ename,sal,comm from emp where comm>0 ORDER BY sal desc;

+--------+---------+---------+

| ename | sal | comm |

+--------+---------+---------+

| ALLEN | 1600.00 | 300.00 |

| WARD | 1250.00 | 500.00 |

| MARTIN | 1250.00 | 1400.00 |

+--------+---------+---------+

Query 12: Write a query to display the names of all employees where the third letter of their name is A.

MariaDB [employee]> select ename from emp where ename LIKE'\_\_A%';

+-------+

| ename |

+-------+

| BLAKE |

| ADAMS |

+-------+

Query 14: Write a query to display the name, job and salary of all employees whose job is clerk or analyst and their salary are not equal to 1000, 3000 or 5000.

MariaDB [employee]> SELECT ename,job,sal FROM emp WHERE job = 'clerk' OR job = 'analyst' AND NOT(sal=1000 OR sal = 3000 OR sal=5000);

+--------+-------+---------+

| ename | job | sal |

+--------+-------+---------+

| SMITH | CLERK | 800.00 |

| ADAMS | CLERK | 1100.00 |

| JAMES | CLERK | 950.00 |

| MILLER | CLERK | 1300.00 |

+--------+-------+---------+

Query 15: Write a query to display the name, salary and commission of all employees whose commission amount is greater than their salary increased by 5%.

MariaDB [employee]> SELECT ename , sal, comm FROM emp WHERE comm>(sal\*500/1200);

+--------+---------+---------+

| ename | sal | comm |

+--------+---------+---------+

| MARTIN | 1250.00 | 1400.00 |

+--------+---------+---------+

Query 16 : Write a query to display a current date

MariaDB [(none)]> SELECT CURDATE();

+------------+

| CURDATE() |

+------------+

| 2023-10-15 |

+------------+

Query 17: . Write a query to display employee number, name, salary, salary increased by 15% expressed as a whole number.

MariaDB [employee]> SELECT empno,ename,sal , sal+(sal\*15.5/100) "NEW sal" FROM emp;

+-------+--------+---------+--------------+

| empno | ename | sal | NEW sal |

+-------+--------+---------+--------------+

| 7369 | SMITH | 800.00 | 924.0000000 |

| 7499 | ALLEN | 1600.00 | 1848.0000000 |

| 7521 | WARD | 1250.00 | 1443.7500000 |

| 7566 | JONES | 2975.00 | 3436.1250000 |

| 7654 | MARTIN | 1250.00 | 1443.7500000 |

| 7698 | BLAKE | 2850.00 | 3291.7500000 |

| 7782 | CLARK | 2450.00 | 2829.7500000 |

| 7788 | SCOTT | 3000.00 | 3465.0000000 |

| 7839 | KING | 5000.00 | 5775.0000000 |

| 7844 | TURNER | 1500.00 | 1732.5000000 |

| 7876 | ADAMS | 1100.00 | 1270.5000000 |

| 7900 | JAMES | 950.00 | 1097.2500000 |

| 7902 | FORD | 3000.00 | 3465.0000000 |

| 7934 | MILLER | 1300.00 | 1501.5000000 |

+-------+--------+---------+--------------+

Query20. Write a query to display the ename with the frist latter capitalized and all other latter lower case and length of their for all the employee whose name start with J A and M.

MariaDB [employee]> SELECT ename,CONCAT(UPPER(LEFT(ename,1)),LOWER(RIGHT(ename,LENGTH(ename)-1))) AS ename ,LENGTH(ename) AS len FROM emp;

+--------+--------+------+

| ename | ename | len |

+--------+--------+------+

| SMITH | Smith | 5 |

| ALLEN | Allen | 5 |

| WARD | Ward | 4 |

| JONES | Jones | 5 |

| MARTIN | Martin | 6 |

| BLAKE | Blake | 5 |

| CLARK | Clark | 5 |

| SCOTT | Scott | 5 |

| KING | King | 4 |

| TURNER | Turner | 6 |

| ADAMS | Adams | 5 |

| JAMES | James | 5 |

| FORD | Ford | 4 |

| MILLER | Miller | 6 |

+--------+--------+------+

Query 21. Write a query to display the name, department name and department number for all the employee.

MariaDB [employee]> SELECT ename,dname,dept.deptno FROM emp INNER JOIN dept ON emp.deptno=dept.deptno;

+--------+------------+--------+

| ename | dname | deptno |

+--------+------------+--------+

| SMITH | RESEARCH | 20 |

| ALLEN | SALES | 30 |

| WARD | SALES | 30 |

| JONES | RESEARCH | 20 |

| MARTIN | SALES | 30 |

| BLAKE | SALES | 30 |

| CLARK | ACCOUNTING | 10 |

| SCOTT | RESEARCH | 20 |

| KING | ACCOUNTING | 10 |

| TURNER | SALES | 30 |

| ADAMS | RESEARCH | 20 |

| JAMES | SALES | 30 |

| FORD | RESEARCH | 20 |

| MILLER | ACCOUNTING | 10 |

+--------+------------+--------+

Query 22. Write a query to display unique listing of all the job that are in department 30.

MariaDB [employee]> SELECT job, deptno FROM emp WHERE deptno=30;

+----------+--------+

| job | deptno |

+----------+--------+

| SALESMAN | 30 |

| SALESMAN | 30 |

| SALESMAN | 30 |

| MANAGER | 30 |

| SALESMAN | 30 |

| CLERK | 30 |

+----------+--------+

Query 23.write a query to display the employee name department name and location for all the employee who earn the commission.

MariaDB [employee]> SELECT ename,dname , loc FROM emp INNER JOIN dept ON emp.deptno=dept.deptno WHERE NOT(comm='NULL');

+--------+-------+---------+

| ename | dname | loc |

+--------+-------+---------+

| ALLEN | SALES | CHICAGO |

| WARD | SALES | CHICAGO |

| MARTIN | SALES | CHICAGO |

+--------+-------+---------+

Query 24. Write a query to display employee name and department name of all the employee who have A in their name .

MariaDB [employee]> SELECT ename,dname FROM emp INNER JOIN dept ON emp.deptno=dept.deptno WHERE ename LIKE '%A%';

+--------+------------+

| ename | dname |

+--------+------------+

| ALLEN | SALES |

| WARD | SALES |

| MARTIN | SALES |

| BLAKE | SALES |

| CLARK | ACCOUNTING |

| ADAMS | RESEARCH |

| JAMES | SALES |

+--------+------------+

Query 25 . write a query to display employee name , job , department number and department name for all the employees who works at location DALLAS.

MariaDB [employee]> SELECT ename , job, dept.deptno, dname FROM emp INNER JOIN dept ON emp.deptno=dept.deptno WHERE NOT(loc='dallas');

+--------+-----------+--------+------------+

| ename | job | deptno | dname |

+--------+-----------+--------+------------+

| ALLEN | SALESMAN | 30 | SALES |

| WARD | SALESMAN | 30 | SALES |

| MARTIN | SALESMAN | 30 | SALES |

| BLAKE | MANAGER | 30 | SALES |

| CLARK | MANAGER | 10 | ACCOUNTING |

| KING | PRESIDENT | 10 | ACCOUNTING |

| TURNER | SALESMAN | 30 | SALES |

| JAMES | CLERK | 30 | SALES |

| MILLER | CLERK | 10 | ACCOUNTING |

+--------+-----------+--------+------------+