Q1 . Select unique job from EMP table.

Query : select distinct job from emp_table;

| job |
| --- |
| CLERK |
| SALESMAN |
| MANAGER |
| ANALYST |
| PRESIDENT |

Q2. List the details of the emps in asc order of the Dptnos and desc of Jobs?

Query : select * from emp_table order by depno asc , job desc;

| emp_no | ename | job | mgr | hirdate | sal | comm | depno |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7839 | KING | PRESIDENT | NULL | 1981-11-17 | 5000.00 | NULL | 10 |
| 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450.00 | NULL | 10 |
| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300.00 | NULL | 10 |
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975.00 | NULL | 20 |
| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800.00 | NULL | 20 |
| 7876 | ADAMS | CLERK | 7788 | 1987-07-13 | 1100.00 | NULL | 20 |
| 7788 | SCOTT | ANALYST | 7566 | 1987-06-11 | 3000.00 | NULL | 20 |
| 7902 | FORD | ANALYST | 7566 | 1981-03-12 | 3000.00 | NULL | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600.00 | 300.00 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250.00 | 500.00 | 30 |
| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250.00 | 1400.00 | 30 |
| 7844 | TURNER | SALESMAN | 7698 | 1981-08-09 | 1500.00 | 0.00 | 30 |
| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850.00 | NULL | 30 |

Q3. Display all the unique job groups in the descending order?

Query: select distinct job from emp_table order by job desc;

| job |
| --- |
| SALESMAN |
| PRESIDENT |
| MANAGER |
| CLERK |
| ANALYST |

Q4. List the emps who joined before 1981.

Query: select emp_no,ename,hirdate from emp_table where hirdate>1981;

| emp_no | ename | hirdate |
|---|---|---|
| 7369 | SMITH | 1980-12-17 |
| 7499 | ALLEN | 1981-02-20 |
| 7521 | WARD | 1981-02-22 |
| 7566 | JONES | 1981-04-02 |
| 7654 | MARTIN | 1981-09-28 |
| 7698 | BLAKE | 1981-05-01 |
| 7782 | CLARK | 1981-06-09 |
| 7788 | SCOTT | 1987-06-11 |
| 7839 | KING | 1981-11-17 |
| 7844 | TURNER | 1981-08-09 |

emp_table 6 ×

Q5. List the Empno, Ename, Sal, Daily sal of all emps in the asc order of Annsal.

Query: select emp_no,ename,sal,sal/30 as daily_sal from emp_table order by daily_sal asc;

| emp_no | ename | sal | daily_sal |
|---|---|---|---|
| 7369 | SMITH | 800.00 | 26.666667 |
| 7900 | JAMES | 950.00 | 31.666667 |
| 7876 | ADAMS | 1100.00 | 36.666667 |
| 7521 | WARD | 1250.00 | 41.666667 |
| 7654 | MARTIN | 1250.00 | 41.666667 |
| 7934 | MILLER | 1300.00 | 43.333333 |
| 7844 | TURNER | 1500.00 | 50.000000 |
| 7499 | ALLEN | 1600.00 | 53.333333 |
| 7782 | CLARK | 2450.00 | 81.666667 |
| 7698 | BLAKE | 2850.00 | 95.000000 |

Result 7 ×

Output

Q6. List the Empno, Ename, Sal, Exp of all emps working for Mgr 7369.

Query: select emp_no,ename, sal ,mgr  from emp_table where emp_no=7369;

| emp_no | ename | sal | mgr |
|---|---|---|---|
| 7369 | SMITH | 800.00 | 7902 |
| NULL | NULL | NULL | NULL |

Q7. Display all the details of the emps who's Comm. Is more than their Sal?

Query: select emp_no,ename, sal ,comm from emp_table where comm > sal;

| emp_no | ename | sal | comm |
|--------|-------|-----|------|
| 7654 | MARTIN | 1250.00 | 1400.00 |
| NULL | NULL | NULL | NULL |

Q8. List the emps who are either 'CLERK' or 'ANALYST' in the Desc order

Query: select emp_no,ename,job from emp_table where job='CLERK' or job='ANALYST' order by emp_no desc;

| emp_no | ename | job |
|--------|-------|-----|
| 7934 | MILLER | CLERK |
| 7902 | FORD | ANALYST |
| 7900 | JAMES | CLERK |
| 7876 | ADAMS | CLERK |
| 7788 | SCOTT | ANALYST |
| 7369 | SMITH | CLERK |
| NULL | NULL | NULL |

Q9. List the emps Who Annual sal ranging from 22000 and 45000.

Quary :select emp_no, ename, sal * 12 AS annual_sal  from emp_table where sal * 12 between 22000 and 45000;

| emp_no | ename | annual_sal |
|--------|-------|-----------|
| 7566 | JONES | 35700.00 |
| 7698 | BLAKE | 34200.00 |
| 7782 | CLARK | 29400.00 |
| 7788 | SCOTT | 36000.00 |
| 7902 | FORD | 36000.00 |

Q10. List the Enames those are starting with 'S' and with five characters.

Query: select emp_no, ename from emp_table where ename like 's%';

| emp_no | ename |
|--------|-------|
| 7369 | SMITH |
| 7788 | SCOTT |
| NULL | NULL |

Q11. List the emps whose Empno not starting with digit78.

Query : select emp_no, ename,job,hirdate,sal,comm from emp_table where emp_no not like '78%';

| emp_no | ename | job | hirdate | sal | comm |
|--------|-------|-----|---------|-----|------|
| 7369 | SMITH | CLERK | 1980-12-17 | 800.00 | NULL |
| 7499 | ALLEN | SALESMAN | 1981-02-20 | 1600.00 | 300.00 |
| 7521 | WARD | SALESMAN | 1981-02-22 | 1250.00 | 500.00 |
| 7566 | JONES | MA SALESMAN 1-04-02 | 2975.00 | NULL |
| 7654 | MARTIN | SALESMAN | 1981-09-28 | 1250.00 | 1400.00 |
| 7698 | BLAKE | MANAGER | 1981-05-01 | 2850.00 | NULL |
| 7782 | CLARK | MANAGER | 1981-06-09 | 2450.00 | NULL |
| 7788 | SCOTT | ANALYST | 1987-06-11 | 3000.00 | NULL |
| 7900 | JAMES | CLERK | 1981-03-12 | 950.00 | NULL |
| 7902 | FORD | ANALYST | 1981-03-12 | 3000.00 | NULL |
| 7934 | MILLER | CLERK | 1982-01-23 | 1300.00 | NULL |
| NULL | NULL | NULL | NULL | NULL | NULL |

Q12. List all the Clerks of Deptno 20.

Query: select emp_no, ename,job,hirdate,sal,comm,depno from emp_table where depno=20 and job='clerk';

| emp_no | ename | job | hirdate | sal | comm | depno |
|--------|-------|-----|---------|-----|------|-------|
| 7369 | SMITH | CLERK | 1980-12-17 | 800.00 | NULL | 20 |
| 7876 | ADAMS | CLERK | 1987-07-13 | 1100.00 | NULL | 20 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Q13. List the Emps who are senior to their own MGRS.

Query: SELECT E1.ename, E1.hirdate, E2.ename AS mgrName, E2.hirdate AS MgrHireDate

FROM emp_table E1

JOIN emp_table E2 ON E1.mgr = E2.emp_no

WHERE E1.hirdate < E2.hirdate;

| ename | hirdate | mgrName | MgrHireDate |
|-------|---------|---------|-------------|
| SMITH | 1980-12-17 | FORD | 1981-03-12 |
| ALLEN | 1981-02-20 | BLAKE | 1981-05-01 |
| WARD | 1981-02-22 | BLAKE | 1981-05-01 |
| JONES | 1981-04-02 | KING | 1981-11-17 |
| BLAKE | 1981-05-01 | KING | 1981-11-17 |
| CLARK | 1981-06-09 | KING | 1981-11-17 |
| JAMES | 1981-03-12 | BLAKE | 1981-05-01 |
| FORD | 1981-03-12 | JONES | 1981-04-02 |

Q14. List the Emps of Deptno 20 who's Jobs are same as Deptno10.

Query: select * from emp_table where depno=20 and job in(select job from emp_table where depno=10);

| emp_no | ename | job | mgr | hirdate | sal | comm | depno |
|--------|-------|-----|-----|---------|-----|------|-------|
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975.00 | NULL | 20 |
| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800.00 | NULL | 20 |
| 7876 | ADAMS | CLERK | CLERK | 1987-07-13 | 1100.00 | NULL | 20 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Q15.List the Emps who's Sal is same as FORD or SMITH in desc order of Sal.

Query :select * from emp_table where sal in(select sal from emp_table where ename in('ford','smith'));

| emp_no | ename | job | mgr | hirdate | sal | comm | depno |
|--------|-------|-----|-----|---------|-----|------|-------|
| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800.00 | NULL | 20 |
| 7788 | SCOTT | ANALYST | 7566 | 1987-06-11 | 3000.00 | NULL | 20 |
| 7902 | FORD | ANALYST | 7566 | 1981-03-12 | 3000.00 | NULL | 20 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Q16. List the emps whose jobs same as SMITH or ALLEN.

Query: select * from emp_table where job in(select job from emp_table where ename in('smith','allen'));

| emp_no | ename | job | mgr | hirdate | sal | comm | depno |
|--------|-------|-----|-----|---------|-----|------|-------|
| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800.00 | NULL | 20 |
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600.00 | 300.00 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 7698 02-22 | 1250.00 | 500.00 | 30 |
| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250.00 | 1400.00 | 30 |
| 7844 | TURNER | SALESMAN | 7698 | 1981-08-09 | 1500.00 | 0.00 | 30 |
| 7876 | ADAMS | CLERK | 7788 | 1987-07-13 | 1100.00 | NULL | 20 |
| 7900 | JAMES | CLERK | 7698 | 1981-03-12 | 950.00 | NULL | 30 |
| 7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300.00 | NULL | 10 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Q17. Any jobs of deptno 10 those that are not found in deptno 20.

Query: select * from emp_table where depno=10 and job not in(select job from emp_table where depno=20);

| emp_no | ename | job | mgr | hirdate | sal | comm | depno |
|--------|-------|-----|-----|---------|-----|------|-------|
| 7839 | KING | PRESIDENT | NULL | 1981-11-17 | 5000.00 | NULL | 10 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Q18. Find the highest sal of EMP table.

Query: select max(sal) as high_sal from emp_table;

| high_sal |
| --- |
| 5000.00 |

Q19. Find details of highest paid employee.

Query :select * from emp_table where sal in(select max(sal) as highsal from emp_table);

| emp_no | ename | job | mgr | hirdate | sal | comm | depno |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7839 | KING | PRESIDENT | NULL | 1981-11-17 | 5000.00 | NULL | 10 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Q20. Find the total sal given to the MGR.

Query :select sum(sal) as high_sal from emp_table where emp_no in(select distinct mgr from emp_table);

| high_sal |
| --- |
| 19275.00 |

Q21. List the emps whose names contains 'A'.

Query : select * from emp_table where ename like 'A%';

| emp_no | ename | job | mgr | hirdate | sal | comm | depno |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600.00 | 300.00 | 30 |
| 7876 | ADAMS | CLERK | 7788 | 1987-07-13 | 1100.00 | NULL | 20 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Q22. Find all the emps who earn the minimum Salary for each job wise in ascending order.

Query : select * from emp_table where sal =(select min(sal) as minimum_sal from emp_table);

| emp_no | ename | job | mgr | hirdate | sal | comm | depno |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800.00 | NULL | 20 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Q23. List the emps whose sal greater than Blake's sal.

Query : select * from emp_table where sal>(select sal from emp_table where ename='blake');

| emp_no | ename | job | mgr | hirdate | sal | comm | depno |
|--------|-------|-----|-----|---------|-----|------|-------|
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975.00 | NULL | 20 |
| 7788 | SCOTT | ANALYST | 7566 | 1987-06-11 | 3000.00 | NULL | 20 |
| 7839 | KING | PRESIDENT | NULL | 1981-11-17 | 5000.00 | NULL | 10 |
| 7902 | FORD | ANALYST | 7566 | 1981-03-12 | 3000.00 | NULL | 20 |
| NULL | NULL | NULL | NULL | NULL | NULL | NULL | NULL |

Q24. Create view v1 to select ename, job, dname, loc whose deptno are same.

Query :create table v1

as

 select e.emp_no,e.ename ,e.job,e.depno,d.dname,d.loc

 from emp_table e

 join dept_table d

 on e.depno=d.depno;

select * from v1;

| emp_no | ename | job | depno | dname | loc |
|--------|-------|-----|-------|-------|-----|
| 7839 | KING | PRESIDENT | 10 | Accounting | New York |
| 7934 | MILLER | CLERK | 10 | Accounting | New York |
| 7369 | SMITH | CLERK | 20 | Reasearch | Dallas |
| 7566 | JONES | MANAGER | 20 | Reasearch | Dallas |
| 7788 | SCOTT | ANALYST | 20 | Reasearch | Dallas |
| 7876 | ADAMS | CLERK | 20 | Reasearch | Dallas |
| 7902 | FORD | ANALYST | 20 | Reasearch | Dallas |
| 7499 | ALLEN | SALESMAN | 30 | sales | Chicago |
| 7521 | WARD | SALESMAN | 30 | sales | Chicago |
| 7654 | MARTIN | SALESMAN | 30 | sales | Chicago |
| 7698 | BLAKE | MANAGER | 30 | sales | Chicago |
| 7844 | TURNER | SALESMAN | 30 | sales | Chicago |
| 7900 | JAMES | CLERK | 30 | sales | Chicago |

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