Emp table

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
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	WARD MAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1987-06-11	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
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
7902	FORD	ANALYST	7566	1981-03-12	3000.00	NULL	20

emp 5 ✕

Dept   table

Deptno	Dname	Loc
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON
NULL	NULL	NULL

i. Select unique job from EMP table

Query- Select unique job from EMP table

job
CLERK
SALESMAN
MANAGER
ANALYST
PRESIDENT

Emp table

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

Query-select * from emp order by deptno asc;

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7788	SCOTT	ANALYST	7566	1987-06-11	3000.00	NULL	20
7876	ADAMS	CLERK	7788	1987-07-13	1100.00	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
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30

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

Query-select   distinct job from emp order by job desc;

job
SALESMAN
PRESIDENT
PRESIDENT
CLERK
ANALYST

iv. List the emps who joined before 1981.

Query-select *from emp where year(Hiredate)<1981;

Emp table

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

Query-select empno,ename,sal,sal/30 as dailysal from emp order by sal asc;

empno	ename	sal	dailysal
7369	SMITH	800.00	26.666667
7900	JAMES	950.00	31.666667
7876	ADAMS	1100.00	36.666667
7521	7876 RD	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
7566	JONES	2975.00	99.166667
7788	SCOTT	3000.00	100.000000

Result 3 ✕

-- vi. List the Empno, Ename, Sal, Exp of all emps working for Mgr 7689.

  Query -   select job,empno,ename,sal,Mgr, DATEDIFF(CURDATE(), hiredate)/365 AS Experience from emp where Mgr=7698 ;

Emp table

job	empno	ename	sal	Mgr	Experience
SALESMAN	7499	ALLEN	1600.00	7698	43.4849
SALESMAN	7521	WARD	1250.00	7698	43.4795
SALESMAN	7654	MARTIN	1250.00	7698	42.8822
SALESMAN	7844	TURNER	1500.00	7698	43.0192
CLERK	7900	JAMES	950.00	7698	43.4301

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

Query- select*from emp where comm>sal;

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

viii. List the emps who are either 'CLERK' or 'ANALYST' in the Desc order.
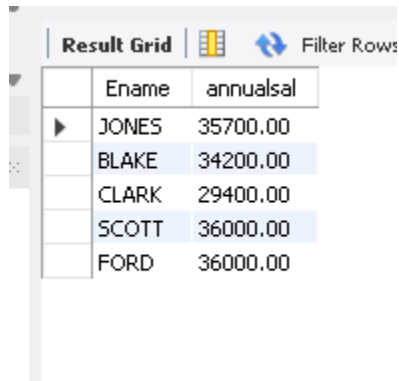
Query-   select*from emp where job="CLERK" OR job="ANALYST" order by job desc;

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
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
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

Emp table

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

Query-   select Ename,sal*12 as annualsal from emp   WHERE (sal * 12)   between 22000 and 45000;
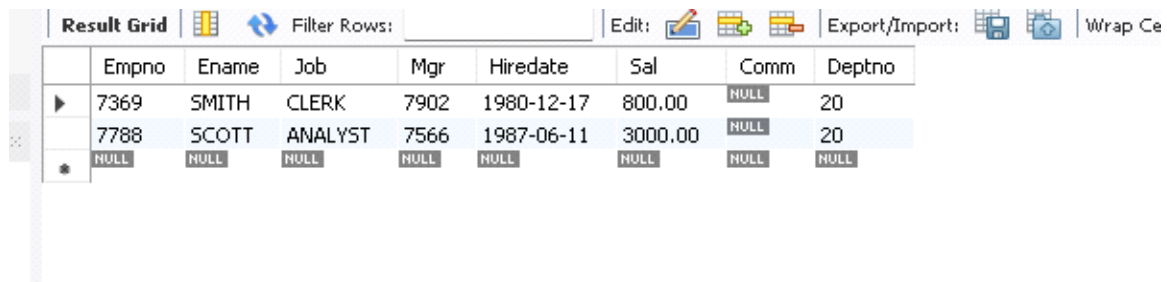
Ename	annualsal
JONES	35700.00
BLAKE	34200.00
CLARK	29400.00
SCOTT	36000.00
FORD	36000.00

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

  Query- select*from emp where Ename like 's____%';

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7788	SCOTT	ANALYST	7566	1987-06-11	3000.00	NULL	20
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

  Query-   select*from emp where empno   not like '78%';

Emp table

	Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
▶	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	1981-02-22	1250.00	500.00	30
	7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
	7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
	7788	SCOTT	ANALYST	7566	1987-06-11	3000.00	NULL	20
	7900	JAMES	CLERK	7698	1981-03-12	950.00	NULL	30
	7902	FORD	ANALYST	7566	1981-03-12	3000.00	NULL	20
	7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

emp 9   ✕

xii. List all the Clerks of Deptno 20.

Query-   select* from emp where Job="Clerk"   and Deptno =20;

	Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
▶	7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
	7876	ADAMS	CLERK	7788	1987-07-13	1100.00	NULL	20
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

Query- SELECT E1.Ename, E1.HireDate, E2.Ename AS MgrName, E2.HireDate AS MgrHireDate

FROM EMP E1 JOIN EMP E2 ON E1.Mgr = E2.Empno   WHERE E1.HireDate < E2.HireDate;

Result Grid   Filter Rows: Export: W

	Ename	HireDate	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

Emp table

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

  Query-   SELECT *

FROM EMP E1

WHERE E1.DEPTNO = 20

AND E1.JOB IN (

    SELECT E2.JOB

    FROM EMP E2

    WHERE E2.DEPTNO = 10

);

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7876	ADAMS	CLERK	7788	1987-07-13	1100.00	NULL	20
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

  Query- select * from emp where sal   IN(select sal from emp where Ename="SMITH" OR Ename="FORD");

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7788	SCOTT	ANALYST	7566	1987-06-11	30 800.00	NULL	20
7902	FORD	ANALYST	7566	1981-03-12	3000.00	NULL	20
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Emp table

-- xvi. List the emps whose jobs same as SMITH or ALLEN.

Query-   select * from emp where job In(

select job from emp where ename="Smith" or ename="Allen");

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
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	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
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

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

Query-   select job from   emp where deptno= 10 and job not in(

select job from emp where deptno=20);

job
PRESIDENT

xviii. Find the highest sal of EMP table.

Query- select max(sal) as Highestsal from emp;

Highestsal
5000.00

Emp table

xix. Find details of highest paid employee.

Query- select*from emp where sal=

(select max(sal) as Highestsal from emp);

xx. Find the total sal given to the MGR.

Query- select job,sum(sal) as totalsum from emp group by job having job="Manager";

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

select*from emp where ename like'A%';

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

Query-   SELECT e1.ename, e1.sal ,e1.job

Emp table

FROM emp e1

JOIN (

   SELECT job, MIN(sal) AS minsalary

   FROM emp

   GROUP BY job

) e2 ON e1.job = e2.job AND e1.sal = e2.minsalary order by sal;

ename	sal	job
SMITH	800.00	CLERK
WARD	1250.00	SALESMAN
MARTIN	1250.00	SALESMAN
CLARK	2450.00	MANAGER
SCOTT	3000.00	ANALYST
FORD	3000.00	ANALYST
KING	5000.00	PRESIDENT

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

select *from emp where sal>(

select sal from emp where ename="Blake");

Empno	Ename	Job	Mgr	Hiredate	Sal	Comm	Deptno
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

Emp table