

**Answer:**

CREATE DATABASE RDBMS\_Java;

USE rdbms\_java;

CREATE TABLE Emp\_table

(

Empno INT(4) PRIMARY KEY,

Ename VARCHAR(10) NOT NULL,

Job VARCHAR(9) NOT NULL,

Mgr INT(4) NOT NULL,

Hiredate DATE NOT NULL,

Sal DECIMAL(7,2) NOT NULL,

Comm DECIMAL(7,2) NOT NULL,

Deptno INT(2) NOT NULL

);

CREATE TABLE Dept\_Table

(

Deptno INT(2) PRIMARY KEY,

Dname VARCHAR(14) NOT NULL,

Loc VARCHAR(13) NOT NULL

);

CREATE TABLE Student\_Table

(

Rno INT(2) PRIMARY KEY,

Sname VARCHAR(14) NOT NULL,

City VARCHAR(20)NOT NULL,

State VARCHAR(20) NOT NULL

);

CREATE TABLE Emp\_Log\_Table

(

Emp\_id INT(5),

Log\_date DATE NOT NULL,

New\_Salary INT(10) NOT NULL,

ACTION VARCHAR(20) NOT NULL

);

INSERT INTO Dept\_table VALUES(10,"Accounting","New York");

INSERT INTO Dept\_table VALUES(20,"Research","Dallas");

INSERT INTO Dept\_table VALUES(30,"Sales","Chicago");

INSERT INTO Dept\_table VALUES(40,"Operations","Boston");

INSERT INTO Emp\_table VALUES(7369,"Smith","Clerk",7902,'1980-12-17',800.00,NULL,20);

INSERT INTO Emp\_table VALUES(7499,"Allen","Salesman",7698,'1981-02-20',1600.00,300.00,30);

INSERT INTO Emp\_table VALUES(7521,"Ward","Salesman",7698,'1981-02-22',1250.00,500.00,30);

INSERT INTO Emp\_table VALUES(7566,"Jones","manager",7839,'1981-04-02',2975.00,NULL,20);

INSERT INTO Emp\_table VALUES(7654,"Martin","Salesman",7698,'1981-09-28',1250.00,1400.00,30);

INSERT INTO Emp\_table VALUES(7698,"Blake","Manager",7839,'1981-05-01',2850.00,NULL,30);

INSERT INTO Emp\_table VALUES(7782,"Clark","Manager",7839,'1981-06-09',2450.00,NULL,10);

INSERT INTO Emp\_table VALUES(7788,"Scott","Analyst",7566,'1987-06-11',3000.00,NULL,20);

INSERT INTO Emp\_table VALUES(7839,"King","President",NULL,'1981-11-17',5000.00,NULL,10);

INSERT INTO Emp\_table VALUES(7844,"Turner","Salesman",7698,'1981-08-09',1500.00,0.00,30);

INSERT INTO Emp\_table VALUES(7876,"Adams","Clerk",7788,'1987-07-13',1100.00,NULL,20);

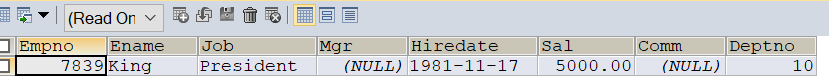
INSERT INTO Emp\_table VALUES(7900,"James","Clerk",7698,'1981-03-12',950.00,NULL,30);

INSERT INTO Emp\_table VALUES(7902,"Ford","Analyst",7566,'1981-03-12',3000.00,NULL,20);

INSERT INTO Emp\_table VALUES(7934,"Miller","Clerk",7782,'1982-01-23',1300.00,NULL,10);

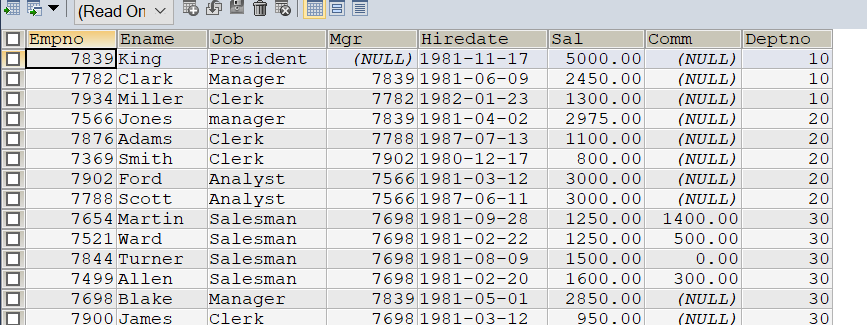
1. Select unique job from EMP table.

Answer: SELECT \* FROM emp\_table WHERE Job="President";



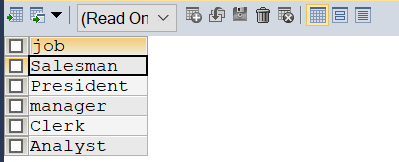
2. List the details of the emps in asc order of the Dptnos and desc of Jobs?

Answer: SELECT \* FROM emp\_table ORDER BY deptno ASC, job DESC;



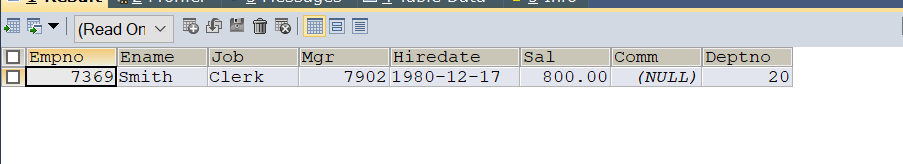
3. Display all the unique job groups in the descending order?

Answer: SELECT DISTINCT job FROM emp\_table ORDER BY job DESC;



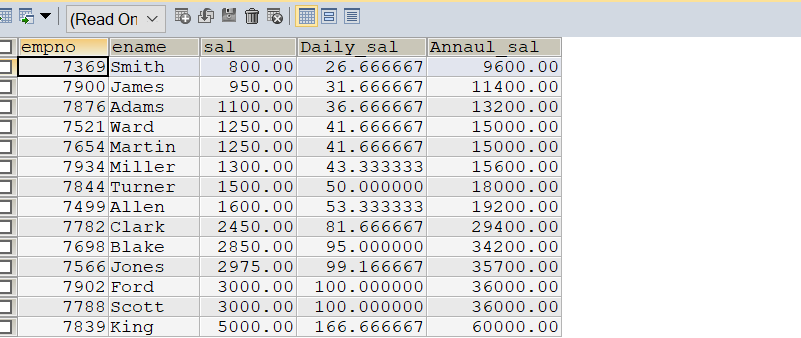
4. List the emps who joined before 1981

Answer: SELECT \* FROM Emp\_table WHERE hiredate < '1981-01-01';



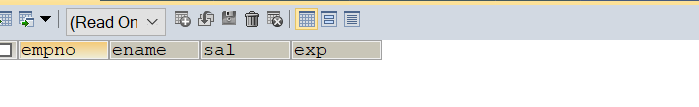
5. List the Empno, Ename, Sal, Daily sal of all emps in the asc order of Annsal

Answer: SELECT empno,ename,sal,(sal/30) AS Daily\_sal,(sal\*12) AS Annaul\_sal FROM emp\_table ORDER BY annaul\_sal ASC;



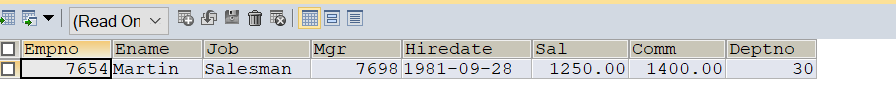
6. List the Empno, Ename, Sal, Exp of all emps working for Mgr 7369.

Answer: SELECT empno,ename,sal,ROUND((CURRENT\_DATE - hiredate)/365) AS EXP FROM emp\_table WHERE mgr=7369;



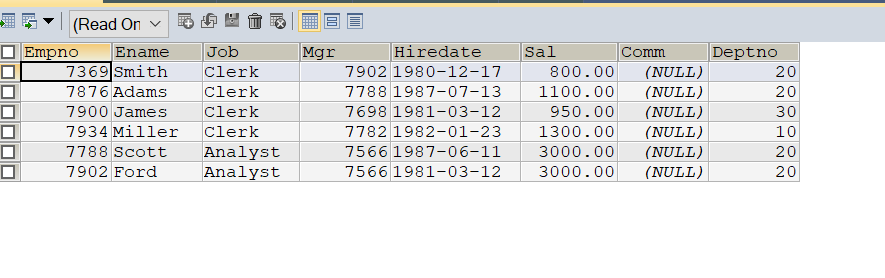
7. Display all the details of the emps who’s Comm. Is more than their Sal?

Answer: SELECT \* FROM emp\_table WHERE comm > sal;



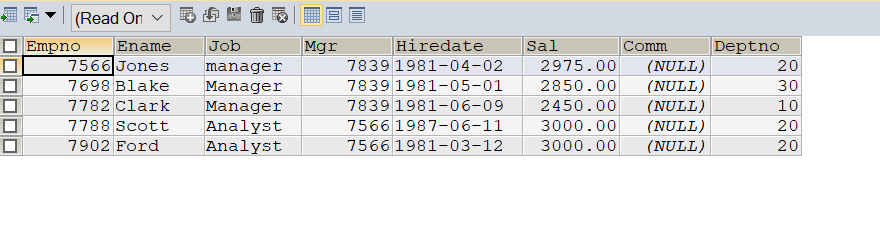
8. List the emps who are either ‘CLERK’ or ‘ANALYST’ in the Desc order

Answer: SELECT \* FROM emp\_table WHERE job="Clerk" OR job="Analyst" ORDER BY job DESC;



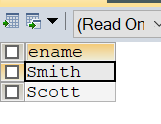
9. List the emps Who Annual sal ranging from 22000 and 45000.

Answer: SELECT \* FROM emp\_table WHERE (sal\*12) BETWEEN 22000 AND 45000;



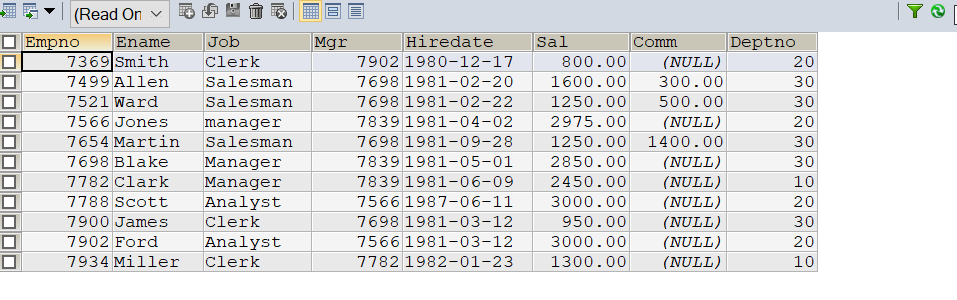
10. List the Enames those are starting with ‘S’ and with five characters.

Answer: SELECT ename FROM emp\_table WHERE ename LIKE 's\_\_\_\_%';



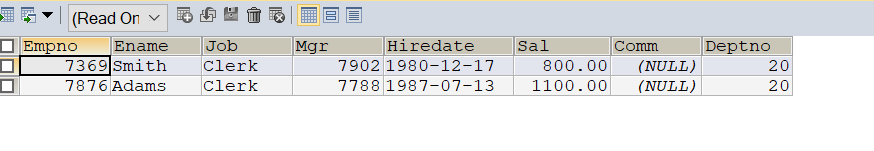
11. List the emps whose Empno not starting with digit78

Answer: SELECT \* FROM emp\_table WHERE empno NOT LIKE '78%';



12. List all the Clerks of Deptno 20.

Answer: SELECT \* FROM emp\_table WHERE job="Clerk" AND deptno=20;

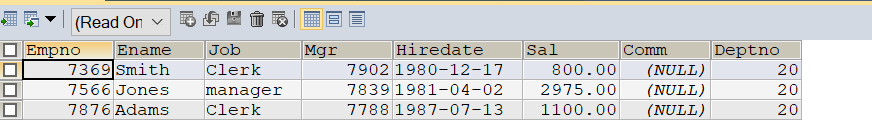


13. List the Emps who are senior to their own MGRS.

Answer:

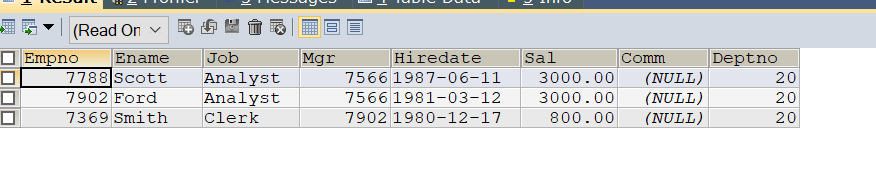
14. List the Emps of Deptno 20 who’s Jobs are same as Deptno10.

Answer: SELECT \* FROM emp\_table WHERE deptno=20 AND job IN(SELECT DISTINCT job FROM emp\_table WHERE deptno=10);



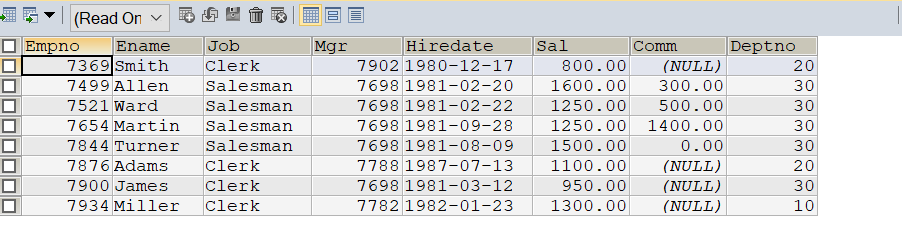
15. List the Emps who’s Sal is same as FORD or SMITH in desc order of Sal.

Answer: SELECT \* FROM emp\_table WHERE sal=(SELECT sal FROM emp\_table WHERE ename="Ford") OR sal=(SELECT sal FROM emp\_table WHERE ename="Smith") ORDER BY sal DESC;



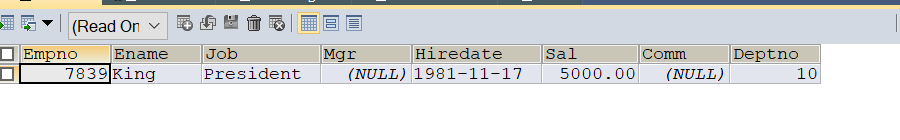
16. List the emps whose jobs same as SMITH or ALLEN

Answer: SELECT \* FROM emp\_table WHERE job=(SELECT job FROM emp\_table WHERE ename="Smith") OR job=(SELECT job FROM emp\_table WHERE ename="Allen");



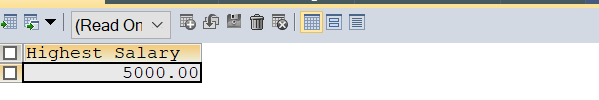
17. Any jobs of deptno 10 those that are not found in deptno 20.

Answer: SELECT \* FROM emp\_table WHERE deptno=10 AND job NOT IN(SELECT DISTINCT job FROM emp\_table WHERE deptno=20);



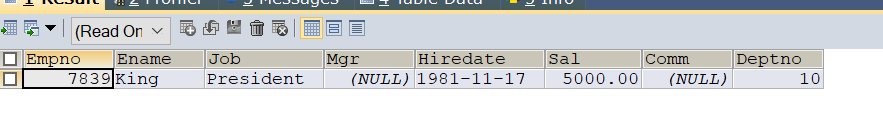
18. Find the highest sal of EMP table

Answer: SELECT MAX(sal) AS Highest\_Salary FROM emp\_table;



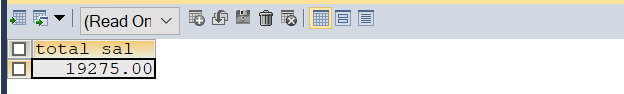
19. Find details of highest paid employee.

Answer: SELECT \* FROM emp\_table WHERE sal=5000.00;



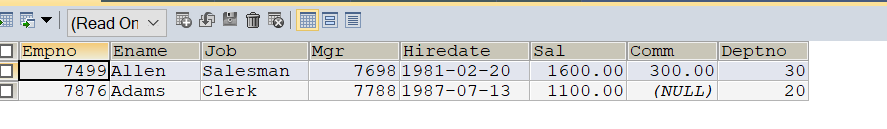
20. Find the total sal given to the MGR

Answer: SELECT SUM(sal) AS total\_sal FROM emp\_table WHERE empno IN (SELECT DISTINCT mgr FROM emp\_table WHERE mgr IS NOT NULL);



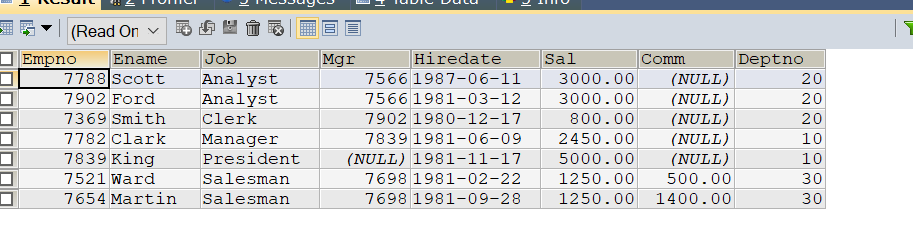
21. List the emps whose names contains ‘A’

Answer: SELECT \* FROM emp\_table WHERE ename LIKE 'A%';



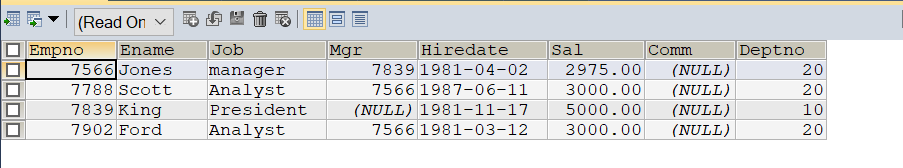
22. Find all the emps who earn the minimum Salary for each job wise in ascending order.

Answer: SELECT \* FROM Emp\_table e WHERE sal=(SELECT MIN(sal) FROM emp\_table WHERE job=e.job) ORDER BY job ASC;



23. List the emps whose sal greater than Blake’s sal.

Answer: SELECT \* FROM emp\_table WHERE sal > (SELECT sal FROM emp\_table WHERE ename="Blake");



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

Answer: CREATE VIEW v1 AS SELECT e.ename,e.job,d.dname,d.loc FROM emp\_table e JOIN dept\_table d WHERE e.deptno=d.deptno;

