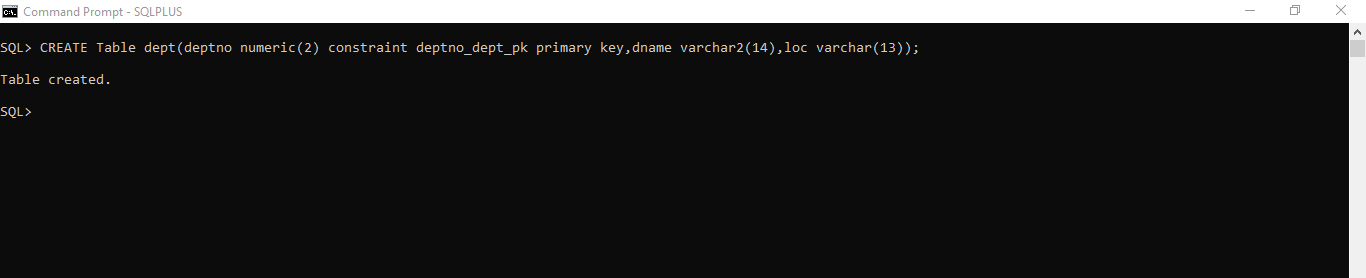
SQL QUERIES:

1: Creation of DEPT TABLE

Query:

CREATE TABLE DEP (DEPTNO NUMERIC (2) CONSTRAINT

DEPTNO\_DEPT\_PK PRIMARY KEY ,DNAME VARCHAR(14),LOC VARCHAR(13));



2:INSERTING VALUES INTO DEPT TABLE

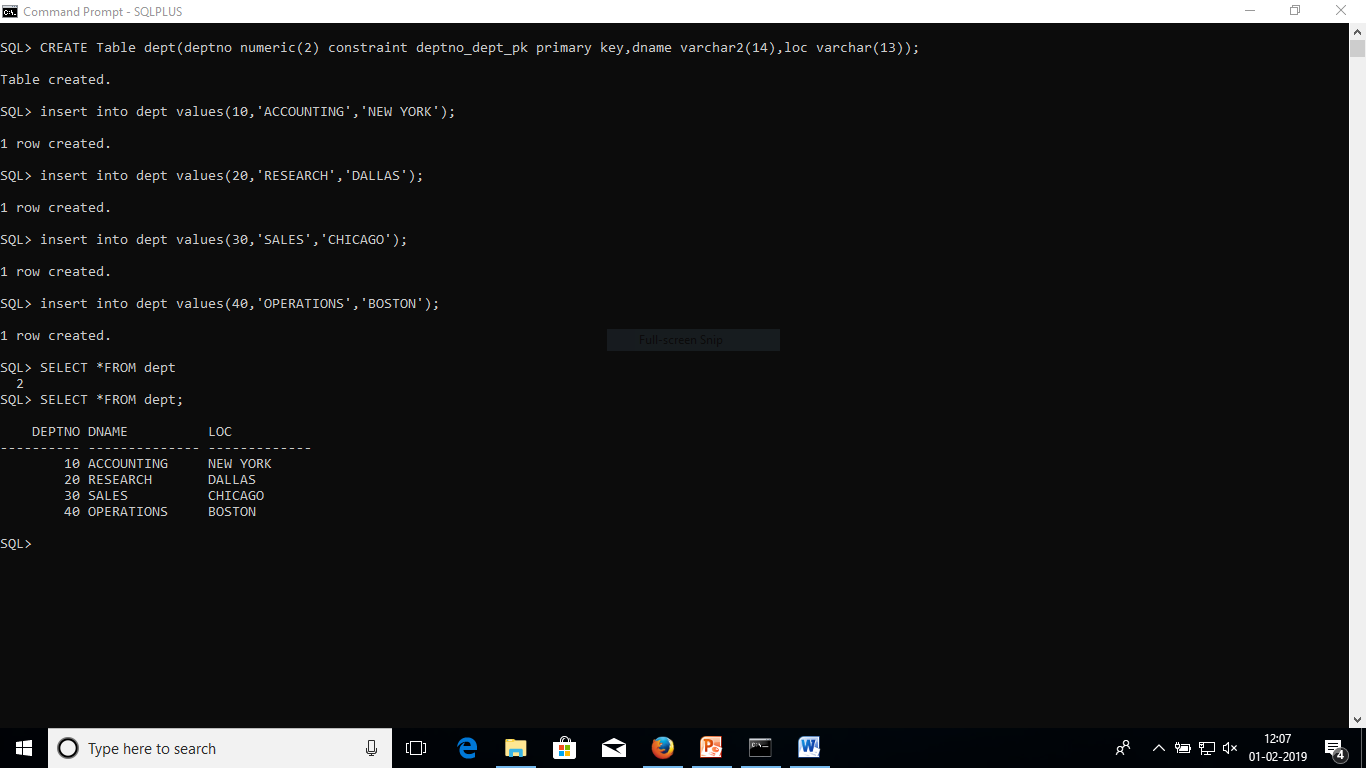
QUERY:

INSERT INTO DEPT VALUES (10,'ACCOUNTING','NEW YORK');

INSERT INTO DEPT VALUES (20,'RESEARCH','DALLAS');

INSERT INTO DEPT VALUES (30,'SALES','CHICAGO');

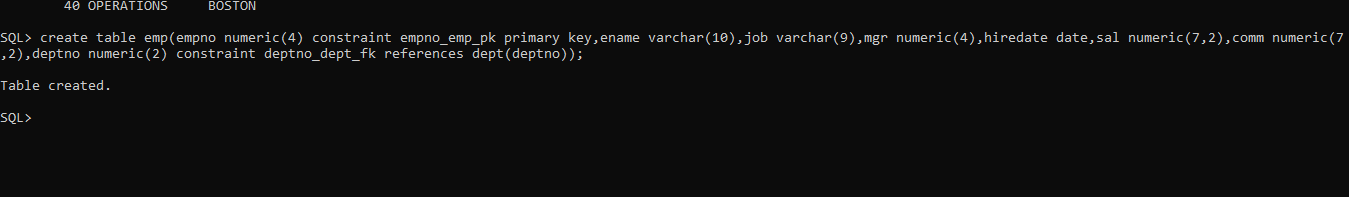
INSERT INTO DEPT VALUES (40,'OPERATIONS','BOSTON');



3:CREATION OF EMP TABLE

QUERY:

CREATE TABLE EMP(EMPNO NUMERIC(4) CONSTRAINT EMPNO\_EMP\_PK PRIMARY KEY,ENAME VARCHAR(10),JOB VARCHAR(9), MGR NUMERIC(4), HIREDATE DATE, SAL NUMERIC(7,2), COMM NUMERIC(7,2), DEPTNO NUMERIC(2) CONSTRAINT DEPTNO\_DEPT\_FK REFERENCES DEPT(DEPTNO));



4:INSERTING DATA INTO EMP TABLE:

QUERY:

INSERT INTO EMP VALUES (7369,'SMITH','CLERK',7902,'17-DEC80',800,NULL,20);

INSERT INTO EMP VALUES (7499,'ALLEN','SALESMAN',7698,'20-FEB-81',1600,300,30);

INSERT INTO EMP VALUES (7521,'WARD','SALESMAN',7698,'22-FEB-81',1250,500,30);

INSERT INTO EMP VALUES (7566,'JONES','MANAGER',7839,'02-APR-81',2975,NULL,20);

INSERT INTO EMP VALUES (7654,'MARTIN','SALESMAN',7698,'28-SEP-81',1250,1400,30);

INSERT INTO EMP VALUES (7698,'BLAKE','MANAGER',7839,'01-MAY-81',2850,NULL,30);

INSERT INTO EMP VALUES (7782,'CLARK','MANAGER',7839,'09-JUN-81',2450,NULL,10);

INSERT INTO EMP VALUES (7788,'SCOTT','ANALYST',7566,'19-APR-87',3000,NULL,20);

INSERT INTO EMP VALUES (7839,'KING','PRESIDENT',NULL,'17-NOV-81',5000,NULL,10);

INSERT INTO EMP VALUES (7844,'TURNER','SALESMAN',7698,'08-SEP-81',1500,0,30);

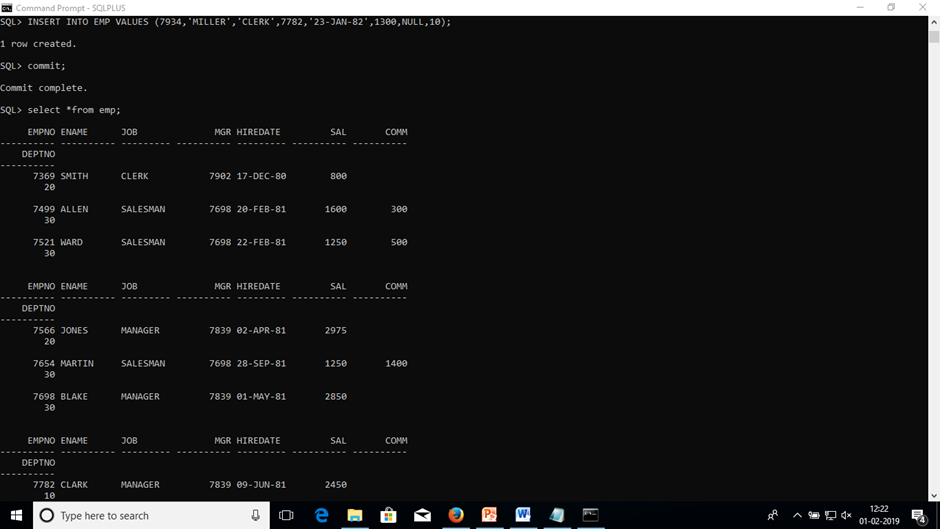
INSERT INTO EMP VALUES (7876,'ADAMS','CLERK',7788,'23-MAY-87',1100,NULL,20);

INSERT INTO EMP VALUES (7900,'JAMES','CLERK',7698,'03-DEC-81','950',NULL,30);

INSERT INTO EMP VALUES (7902,'FORD','ANALYST',7566,'03-DEC-81',3000,NULL,20);

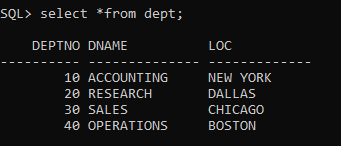
INSERT INTO EMP VALUES (7934,'MILLER','CLERK',7782,'23-JAN-82',1300,NULL,10);

4:COMMIT AND DISPLAYING EMP TABLE



SQL QUERIES:

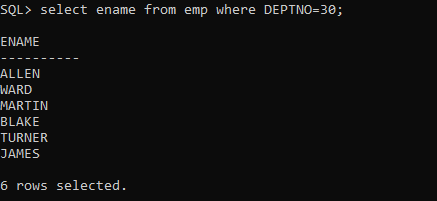
1. Display all departments from department table.



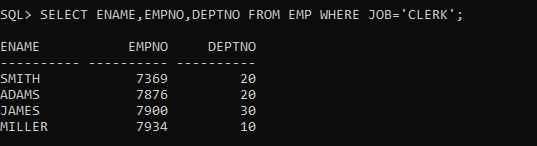
1. Display all employees from employee table.



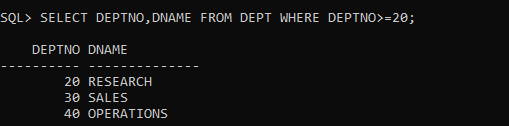
1. Select the employee in department 30.



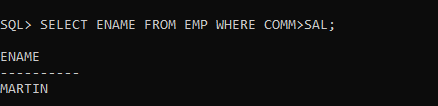
1. List the names, numbers and departmentno of all clerks.



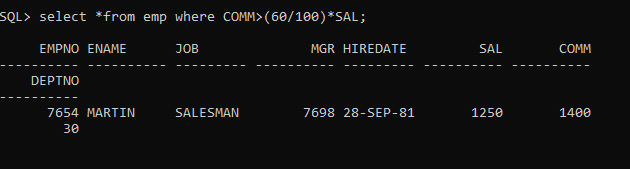
1. Find the depart numbers and the name of employee of all dept with Deptno greater or equal to 20.



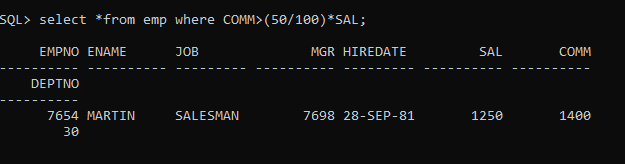
1. Find the employees whose commission is greater than their salary.



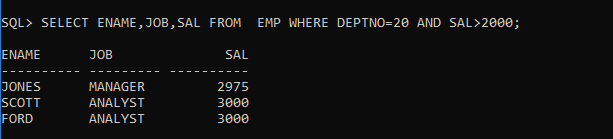
1. Find the employees whose commission is greater than 60 percent of their salary.



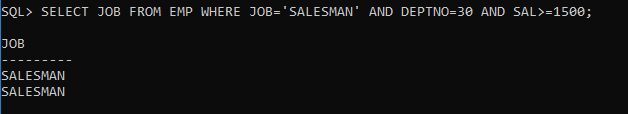
1. Find the employee whose commission is greater than 50 percent of their salary.



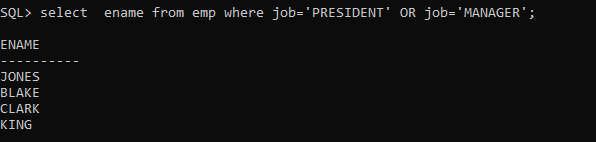
1. List the name, job and salary of all employees in dept 20 who earn more than 2000.



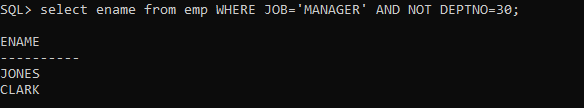
10)Find all salesmen in dept 30 whose salary is greater than or equal to Rs. 1500.



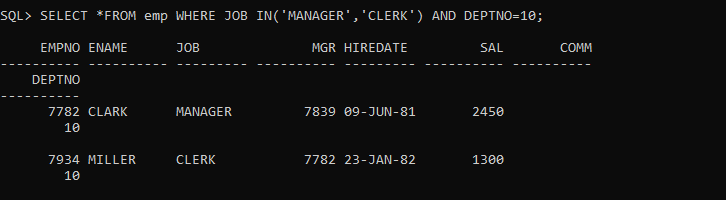
11) Find all the employees whose job is either a president or manager.



12.Find all managers who are not in dept 30.



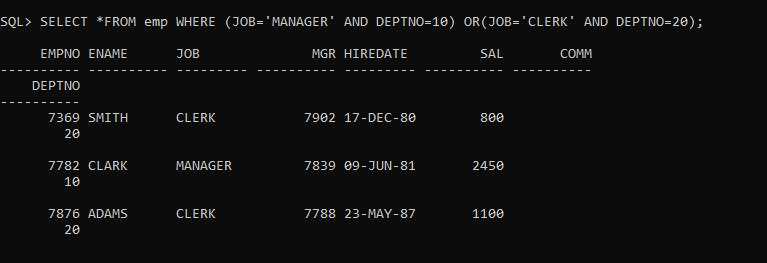
13.Find the details of all managers and clerks in dept 10



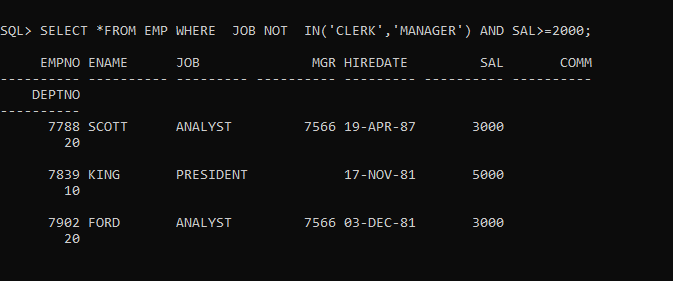
14. Find the details of all manager(in any dept) and all clerks in dept10



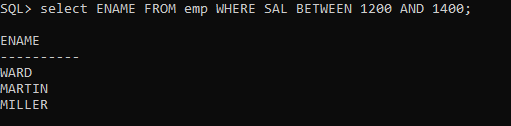
15. Find the details of all managers in dept10 and all clerks in dept20



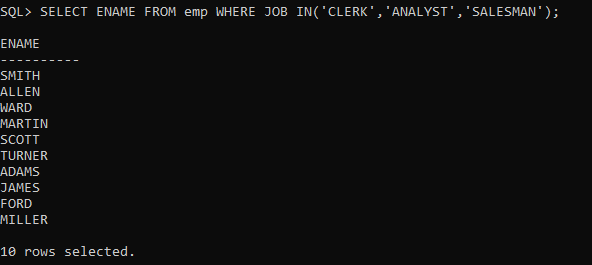
16 Find all employees who are neither clerks nor manager but whose salary is greater than or equal to Rs. 2000



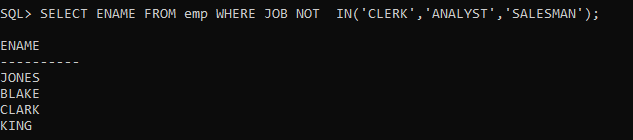
17. Find the employees who earns between Rs. 1200 and Rs.1400.



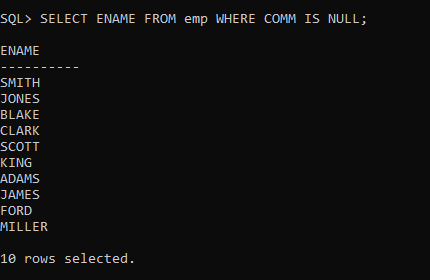
18. Find the employees who are clerks, analysts or salesman.

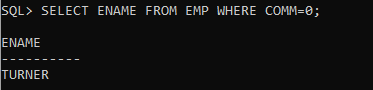


19. Find the employees who are not clerks, analyst or salesman.

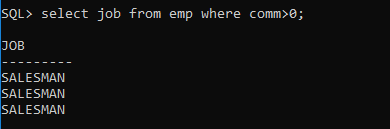


20. Find the employees who do not receive a commission i.e. commission is NULL.

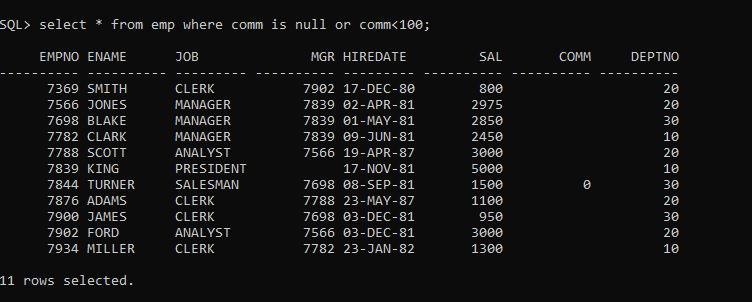


21) find the employee whose commission is 0.

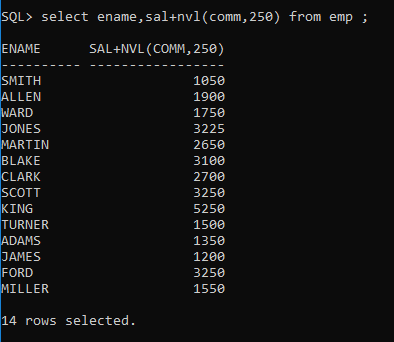
22 Find the different jobs of the employees receiving commission.



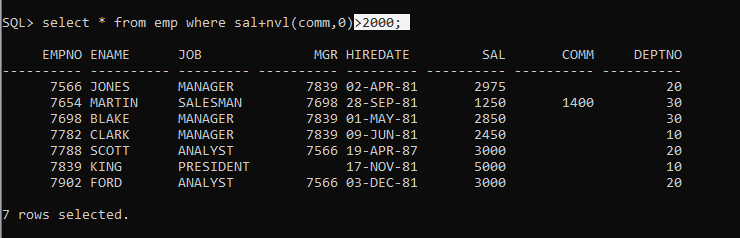
23 Find all employees who do not receive a commission or whose Commission is less than Rs. 100.



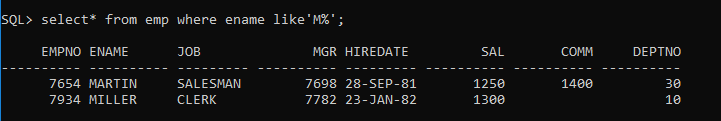
24 The employees who not receiving commission are entailed to Rs. 250, Show the net earnings of all employees. (find about nvl() )



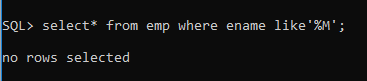
25 Find all employees whose total earnings are greater than Rs. 2000



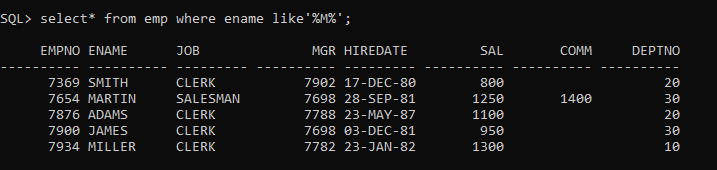
26 Find all employees whose names begin with m



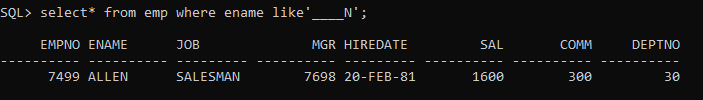
27 Find all employees whose names end with m

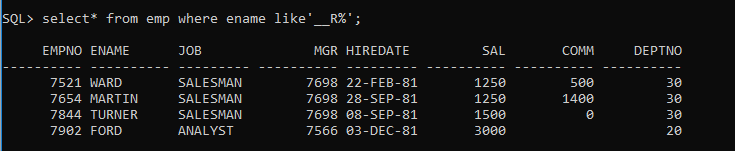


28 Find all employees whose names contain the letter m.

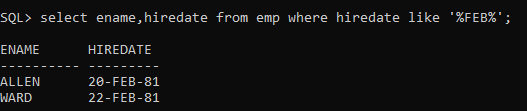


29 Find the employees whose names are 5 characters long and end with n.

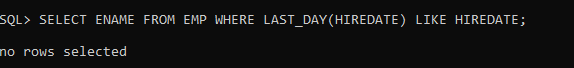
 30 Find the employees who have the letter r as the third letter in their name



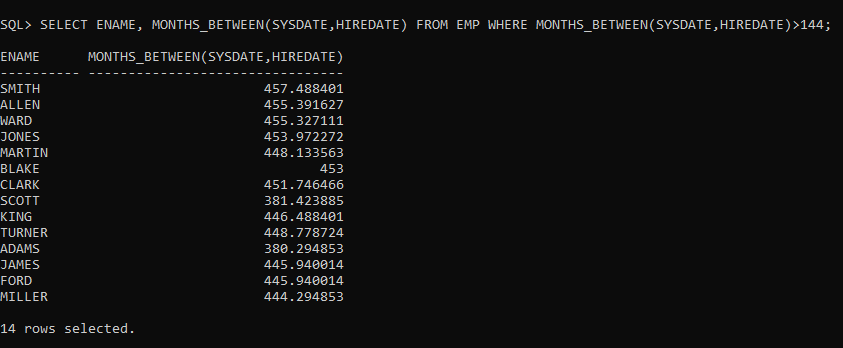
31 Find all employees hired in month of February (of any year).



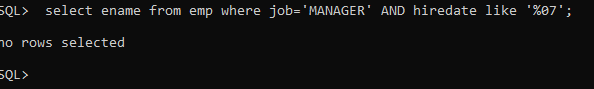
32 Find all employees who were hired on the last day of the month



33 Find the employees who were hired more than 12 years ago



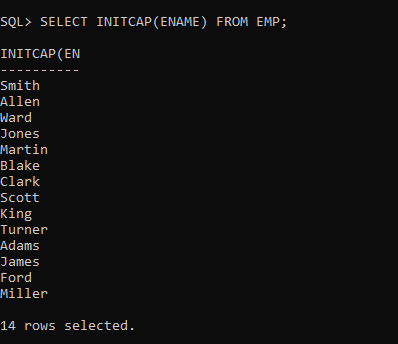
34 Find the managers hired in the year 2007



35 Display the names and the jobs of all employees, separated by ','(comma). For example (smith, clerk).



36 Display the names of all employees with the initial letter only in capitals



37 Display the names of all employees, right aligning them to 15 characters



38 Display the names of all employees, padding them to right up-to 15 characters with '-'



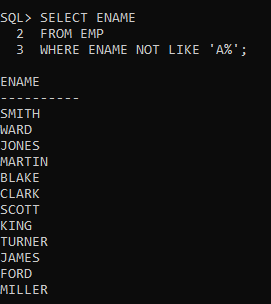
39 Display the length of the name of all employees



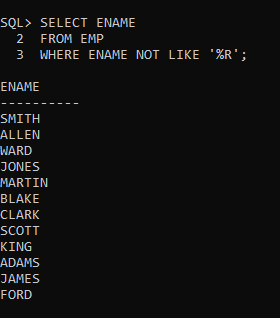
1. Display the names of all employees centering them with 20 characters



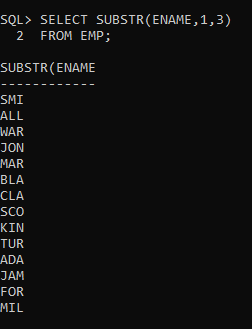
41 Display the names of all employees without any leading 'a'



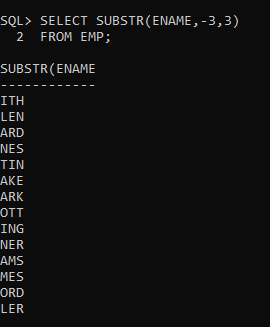
42 Display the names of all employees without any trailing 'r'



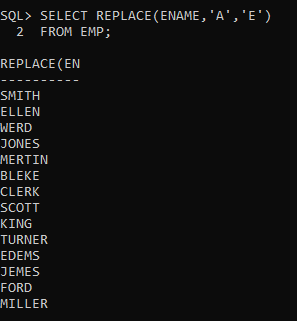
43 Display the names of all employees replacing any 'a' with 'e'



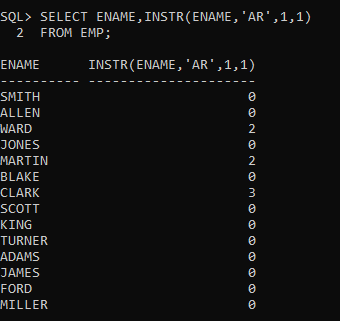
44 Display the names of all employees and the position at which the string 'ar' occurs in the name



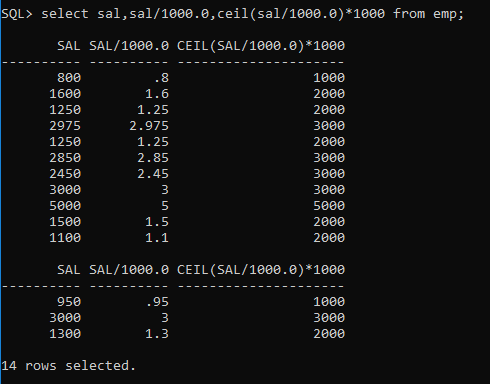
45 Show the salary of all employees rounding it to the nearest Rs. 1000. For example (3790 will be 4000)



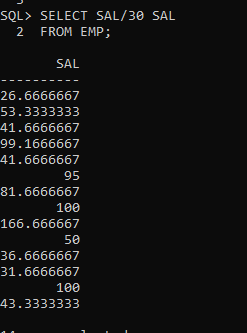
46 Display the names of all employees and the position at which the string 'ar' occurs in the name.



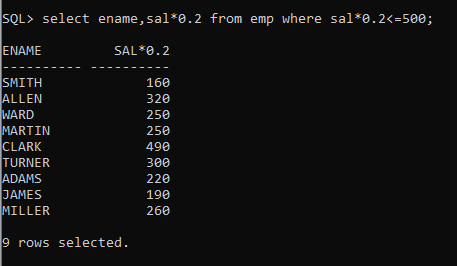
47 Display the name of all employees, and their bonus. Assume each Employee gets a bonus of 20 percent of his salary subject to the Maximum of Rs. 500



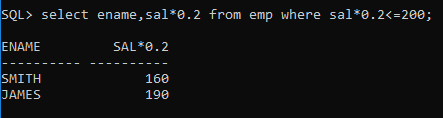
48 Show the daily salary of all employees assuming a month has 30 days



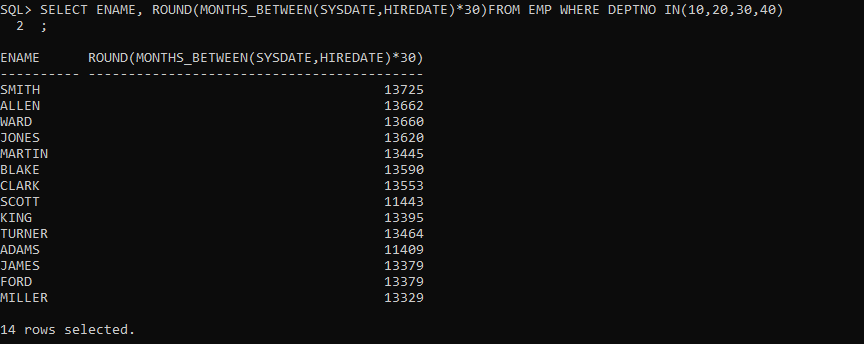
49 Display the name of all employees, and their bonus. Assume each Employee gets a bonus of 20 percent of his salary subject to the Maximum of Rs. 500.



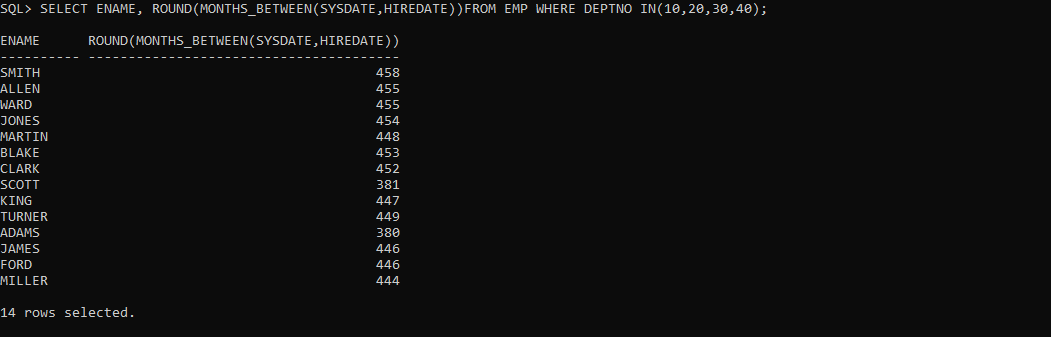
50 Display the name of all employees, and their bonus. Assume each employee gets a bonus of 20 percent of his salary subject to the Maximum of Rs. 200.



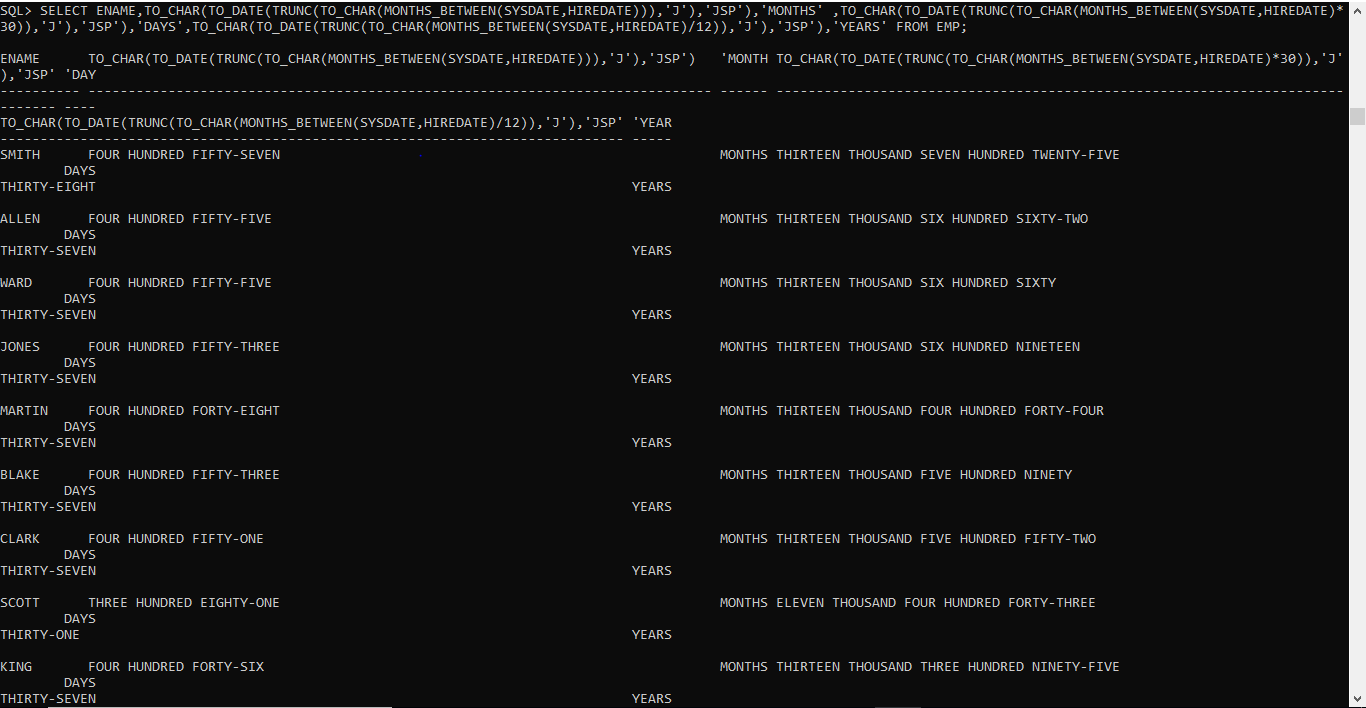
51 For each employee display the number of days passed since the employee joined the company



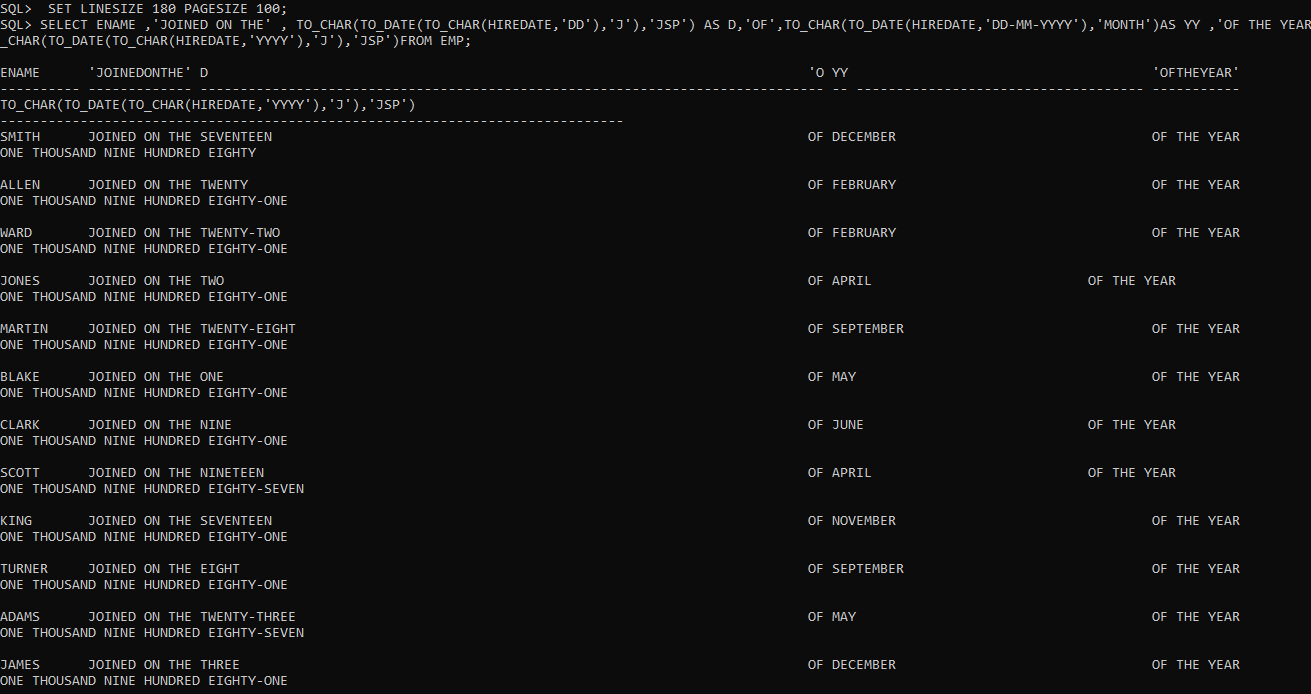
52 For each employee display the number of months passed since the Employee joined the company.



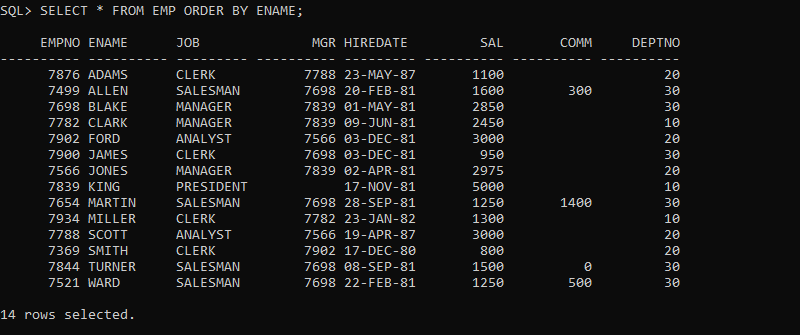
53 Display the tenure of service in the years, months and days for all Employees in character format. Assume every month has 30 days.



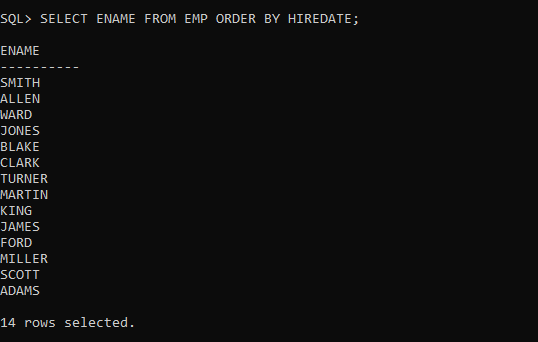
54 Display the employee details in the following manner. 'Miler joined on the twenty-third of January of the year nineteen hundred and eighty Two'



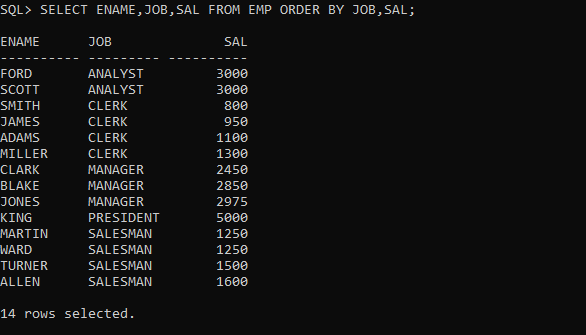
55 Display the details of all employees, sorted on the names.



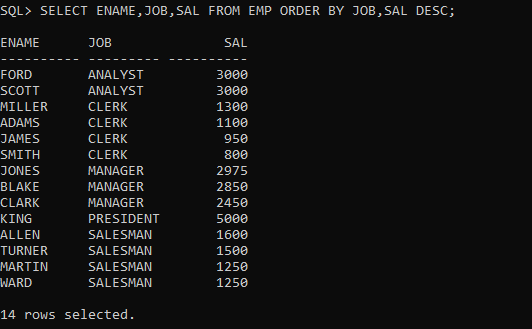
56 Display the name of all employees, based on their tenure, with the oldest employee coming first.



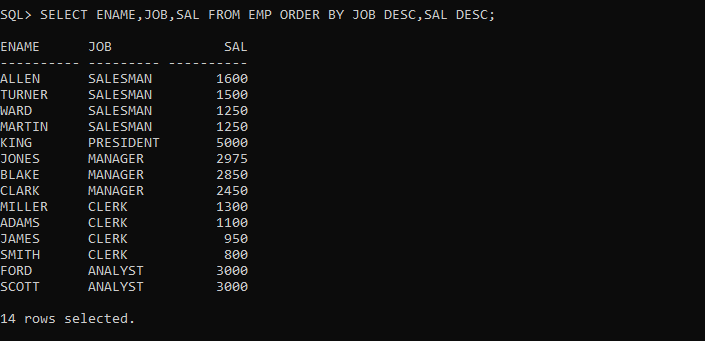
57 Display the names, job and salary of all employees sorted on jobs and Salary



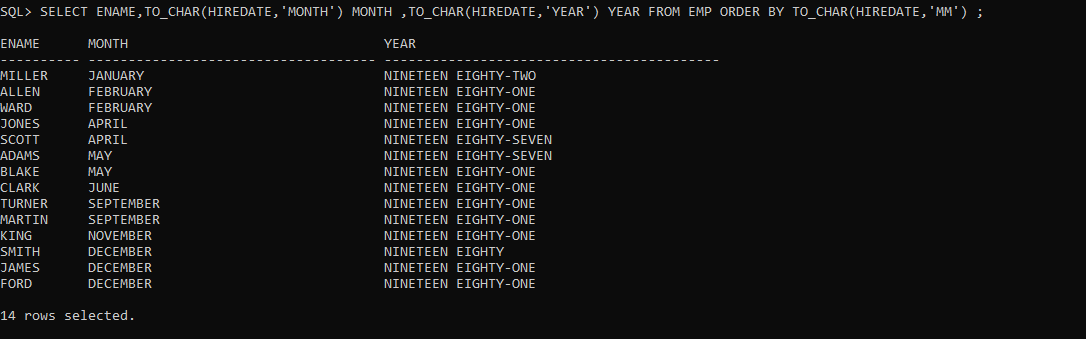
58 Display the names, job and salary of all employees, sorted on jobs and within job, sorted on the descending order of salary



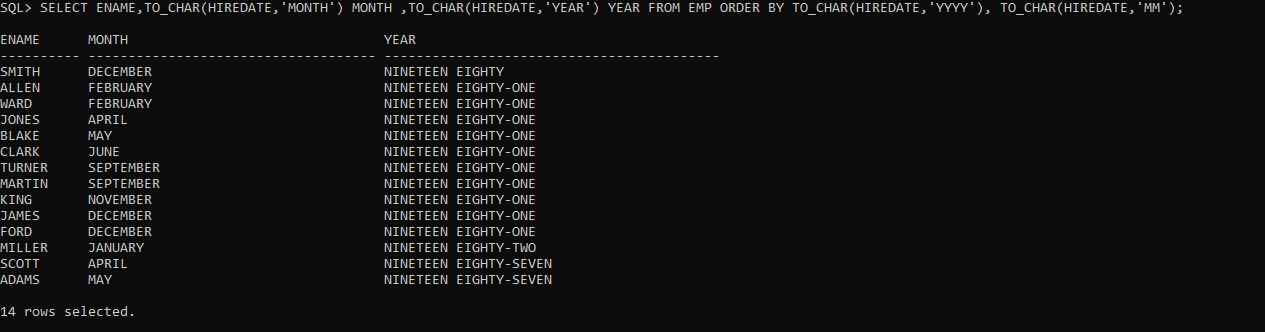
59 Display the names, job and salary of all employees, sorted on Descending order of job and within job, sorted on the descending order of salary.



60 Display the name, month and year of all employees, sorted on the month of their hire date irrespective of the year



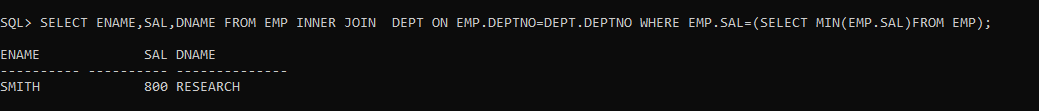
61 Display the name, month and year of joining of all employees, sorted on the month of their hire date, and within that on the year, with the earliest year appearing first



**SQL COMPLEX QUERIES**

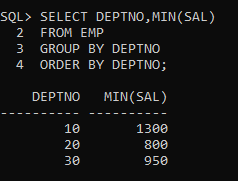
WRITE A SQL STATEMENT TO DISPLAY THE LOWEST PAID EMPLOYEE'S (NAME , SALARY , DEPARTMENT NAME)

|  |  |  |
| --- | --- | --- |
| **ENAME** | **SAL** | **DNAME** |
| **SMITH** | 800 | RESEARCH |



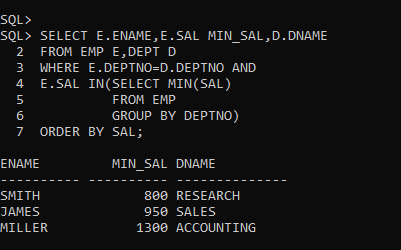
1. LIST MINIMUM SALARY FOR EACH DEPARTMENT

|  |  |
| --- | --- |
| **DEPTNO** | **MIN(SAL)** |
| **10** | 1300 |
| **20** | 800 |
| **30** | 950 |



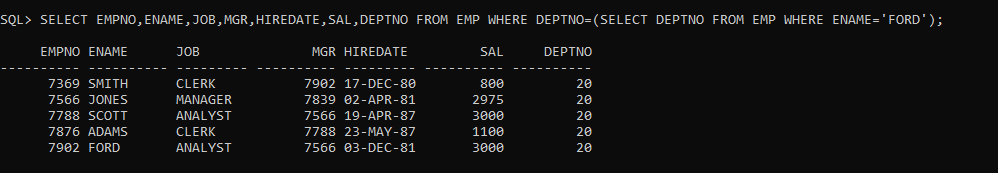
1. WRITE A QUERY BASED ON FOLLOWING RESULT.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **SAL** | **DEPTNO** | **DNAME** |
| **7369** | SMITH | CLERK | 800 | 20 | RESEARCH |
| **7900** | JAMES | CLERK | 950 | 30 | SALES |
| **7934** | MILLER | CLERK | 1300 | 10 | ACCOUNTING |



4)LIST ALL THE EMPLOYEES WHO ARE WORKING IN FORD’S DEPARTMENT.

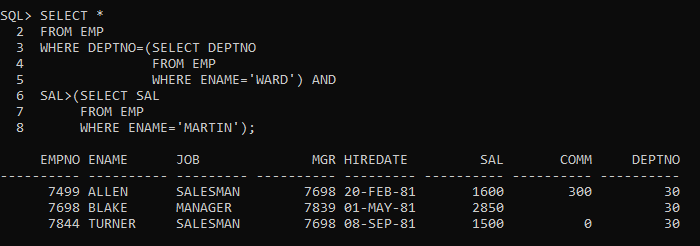
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **DEPTNO** |
| **7369** | SMITH | CLERK | 7902 | 17-Dec-00 | 800 | 20 |
| **7566** | JONES | MANAGER | 7839 | 02-Apr-01 | 2975 | 20 |
| **7788** | SCOTT | ANALYST | 7566 | 19-Apr-07 | 3000 | 20 |
| **7876** | ADAMS | CLERK | 7788 | 23-May-07 | 1100 | 20 |
| **7902** | FORD | ANALYST | 7566 | 03-Dec-01 | 3000 | 20 |



5)LIST ALL EMPLOYEE WHO ARE WORKING IN WARD'S DEPARTMENT AND

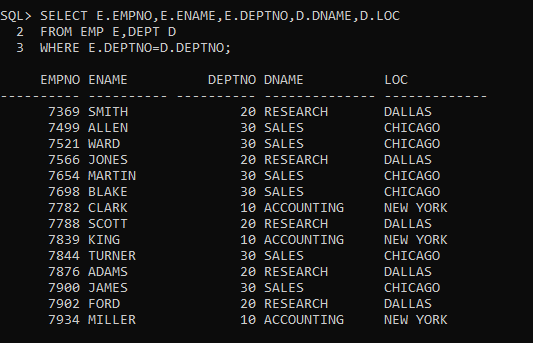
EARNING MORE THEN MARTIN

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **JOB** | **MGR** | **HIREDATE** | **SAL** | **DEPTNO** |
| **7369** | SMITH | CLERK | 7902 | 17-Dec-00 | 800 | 20 |
| **7566** | JONES | MANAGER | 7839 | 02-Apr-01 | 2975 | 20 |
| **7788** | SCOTT | ANALYST | 7566 | 19-Apr-07 | 3000 | 20 |



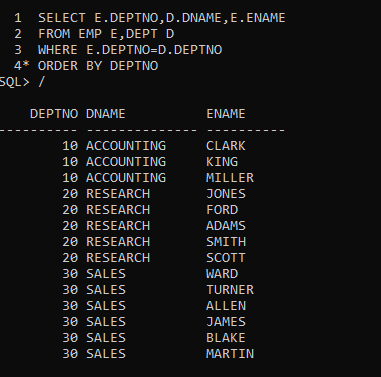
6)DISPLAY EMPLOYEE NUMBER, NAME,DEPT NUMBER, DEPT NAME, AND LOCATION

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EMPNO** | **ENAME** | **DEPTNO** | **DNAME** | **LOC** |
| **7369** | SMITH | 20 | RESEARCH | DALLAS |
| **7499** | ALLEN | 30 | SALES | CHICAGO |
| **7521** | WARD | 30 | SALES | CHICAGO |
| **7566** | JONES | 20 | RESEARCH | DALLAS |
| **7654** | MARTIN | 30 | SALES | CHICAGO |
| **7698** | BLAKE | 30 | SALES | CHICAGO |
| **7782** | CLARK | 10 | ACCOUNTING | NEW YORK |
| **7788** | SCOTT | 20 | RESEARCH | DALLAS |
| **7839** | KING | 10 | ACCOUNTING | NEW YORK |
| **7844** | TURNER | 30 | SALES | CHICAGO |
| **7876** | ADAMS | 20 | RESEARCH | DALLAS |
| **7900** | JAMES | 30 | SALES | CHICAGO |
| **7902** | FORD | 20 | RESEARCH | DALLAS |
| **7934** | MILLER | 10 | ACCOUNTING | NEW YORK |



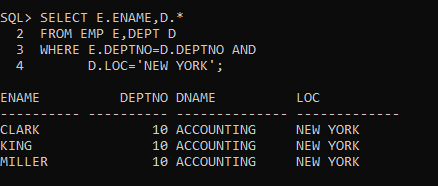
7)DISPLAY THE FOLLOWING RESULT

|  |  |  |
| --- | --- | --- |
| **DEPTNO** | **DNAME** | **ENAME** |
| **10** | ACCOUNTING | CLARK |
| **10** | ACCOUNTING | KING |
| **10** | ACCOUNTING | MILLER |
| **20** | RESEARCH | JONES |
| **20** | RESEARCH | FORD |
| **20** | RESEARCH | ADAMS |
| **20** | RESEARCH | SMITH |
| **20** | RESEARCH | SCOTT |
| **30** | SALES | WARD |
| **30** | SALES | TURNER |
| **30** | SALES | ALLEN |
| **30** | SALES | JAMES |
| **30** | SALES | BLAKE |
| **30** | SALES | MARTIN |



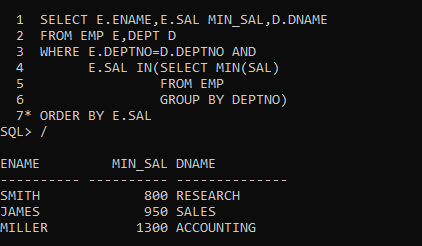
8) LIST ALL THE EMPLOYEE WHO ARE WORKING IN NEW YORK

|  |  |  |  |
| --- | --- | --- | --- |
| **ENAME** | **DEPTNO** | **DNAME** | **LOC** |
| **CLARK** | 10 | ACCOUNTING | NEW YORK |
| **KING** | 10 | ACCOUNTING | NEW YORK |
| **MILLER** | 10 | ACCOUNTING | NEW YORK |



9)WRITE A SQL STATEMENT TO DISPLAY THE LOWEST PAID EMPLOYEE'S (NAME , SALARY , DEPARTMENT NAME) IN THE RESPECTIVE DEPARTMENT.

|  |  |  |
| --- | --- | --- |
| **ENAME** | **MIN(SAL)** | **DNAME** |
| **SMITH** | 800 | RESEARCH |
| **JAMES** | 950 | SALES |
| **MILLER** | 1300 | ACCOUNTING |



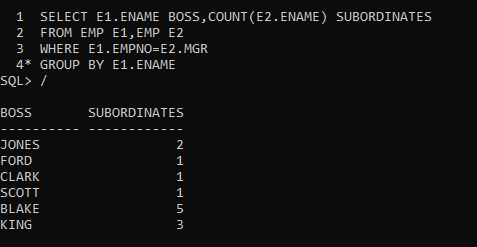
10)WRITE A SQL STATEMENT TO DISPLAY THE HIGHEST PAID EMPLOYEE'S (NAME, JOB, MANAGER NAME, SALARY AND DEPARTMENT NAME AND DEPARTMENT NO.) IN THE RESPECTIVE DEPARTMENT.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EMPNO** | **JOB** | **MGR** | **MAX(SAL)** | **DNAME** |
| **7698** | MANAGER | 7839 | 2850 | SALES |
| **7788** | ANALYST | 7566 | 3000 | RESEARCH |
| **7839** | PRESIDENT |  | 5000 | ACCOUNTING |
| **7902** | ANALYST | 7566 | 3000 | RESEARCH |

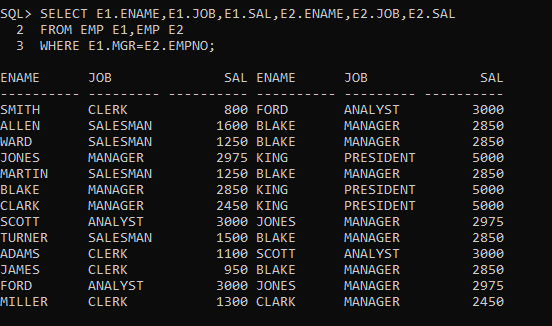


11)WRITE A SQL STATEMENT TO DISPLAY THE EMPLOYEE NAME (BOSS) AND NUMBER OF EMPLOYEE (SUBORDINATES) DIRECTLY REPORTING TO HIM?

|  |  |
| --- | --- |
| **BOSS** | **SUBORDINATES** |
| **JONES** | 2 |
| **FORD** | 1 |
| **CLARK** | 1 |
| **SCOTT** | 1 |
| **BLAKE** | 5 |
| **KING** | 3 |



12)DISPLAY THE NAMES, DESIGNATION AND SALARIES OF ALL EMPLOYEES WHO HAVE MANAGER ALONG WITH MANAGER'S NAME, DESIGNATION AND MANAGER'S SALARY.(SELF-JOIN)



13) Create the following tables:

ORDER: {Id, OrderDate, OrderNumber}

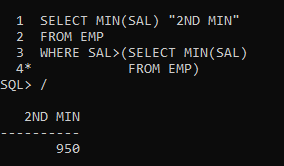
ORDER\_ITEM: {Id, OrderId, ProductId, UnitPrice, Quantity}

PRODUCT: {Id, ProductName}

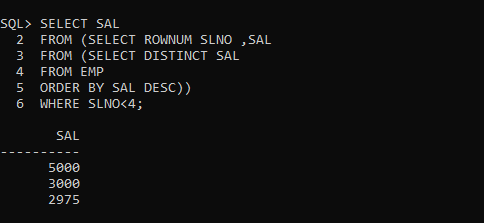
Write a query to display the following output sorted by order no:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ORDER\_NO** | **ORDER\_DATE** | **PRODUCT\_NAME** | **QUANTITY** | **UNIT\_PRICE** |
| **7369** | 7/4/2012 12:00:00 AM | EASY-TRADING | 800 | 20 |
| **7900** | 2/10/2011 12:00:00 AM | BANK-ANYWHERE | 950 | 30 |
| **7934** | 9/23/2015 12:00:00 AM | TRIP-MANAGER | 1300 | 10 |

14)Find the 2nd minimum salary of the employee.



15) Find the max 3 salaries from employee table.



16) Display common records from emp\_1 & emp\_2 tables. (Use INTERSECT)

17)

Display department no wise total salary where more than 2 employees exist in a department.

