Database Systems Lab Lab 7C

Task 1

FIND THE MINUS OF DEPARTMENT NUMBER 10 AND DEPARTMENT NUMBER 20.

Query:

select * from emp where deptno=10 minus select * from emp where deptno=20;

Output:

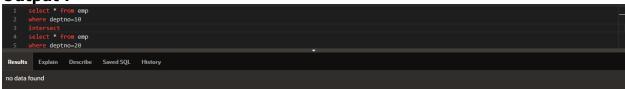


Task 2

FIND THE INTERSECT OF DEPARTMENT NUMBER 10 AND DEPARTMENT NUMBER 20.

Query:

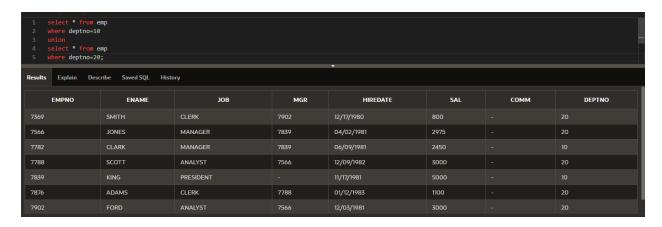
select * from emp where deptno=10 intersect select * from emp where deptno=20;



FIND THE UNION OF DEPARTMENT NUMBER 10 AND DEPARTMENT NUMBER 20. Query:

select * from emp where deptno=10 union select * from emp where deptno=20;

Output:



Task 4

FIND THE JOB WHICH HAS THE HIGHEST AVERAGE SALARY. Query:

SELECT job FROM emp GROUP BY job HAVING AVG(sal) = (SELECT MAX(AVG(sal)) FROM emp GROUP BY job)



FIND THE MINIMUM SALARIES WITH EMPLOYEE NAME AND JOB.

Query:

Output:

ENAME	ю
SMITH	CLERK
WARD	SALESMAN
MARTIN	SALESMAN
CLARK	MANAGER
SCOTT	ANALYST
KING	PRESIDENT
FORD	ANALYST

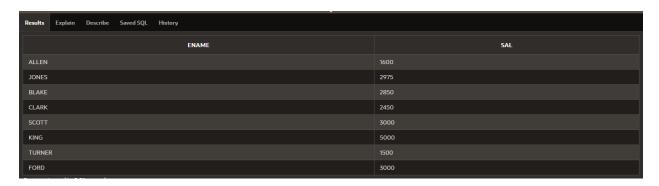
Task 6

FIND THE SALARIES OF THOSE EMPLOYEES WHO EARN MORE THEN MARTIN'.

Query:

```
select ename,sal from emp
where sal >

(
select sal from emp
where ename='MARTIN'
)
```



LIST THOSE DEPARTMENT WHO DOSE NOT HAVE ANY EMPLOYEES. Query :

SELECT deptno FROM dept WHERE deptno NOT IN (select deptno FROM emp);

Output:



Task 8

FIND THE MAXIMUM THREE SALARIES IN EACH DEPARTMENT. Query:



FIND ALL EMPLOYEES WHO HAVE THE SAME JOB AS BLAKE.

Query:

select * from emp e Join emp m on m.ename = 'BLAKE' AND e.job = m.job;

Output:



Task 10

FIND ALL EMPLOYEES WHO EARN MORE THAN THE AVERAGE SALARY OF EMPLOYEES IN THEIR OWN DEPARTMENT AND SORT BY DEPARTMENT NO.

Query:

Results Explain Describe Saved SQL History									
ЕМРНО	ENAME	JOB	MGR	HIREDATE	SAL	СОММ	DEPTNO		
7839	KING	PRESIDENT		11/17/1981	5000				
7566	JONES	MANAGER	7839	04/02/1981	2975		20		
7902	FORD	ANALYST	7566	12/03/1981	3000				
7788	SCOTT	ANALYST	7566	12/09/1982	3000		20		
7499	ALLEN	SALESMAN	7698	02/20/1981	1600	300			
7698	BLAKE	MANAGER	7839	05/01/1981	2850		30		
5 rows returned in 0.02 seconds Download									

FIND ALL EMPLOYEES WHO EARN MORE THAN ANY EMPLOYEE IN DEPARTMENT 20.

Output:

Results Explain Describe Saved SQL History							
ЕМРНО	ENAME	ЈОВ	MGR	HIREDATE	SAL	сомм	DEPTNO
7839	KING	PRESIDENT		11/17/1981	5000		
7698	BLAKE	MANAGER	7839	05/01/1981	2850		30
7782	CLARK	MANAGER	7839	06/09/1981	2450		
7499	ALLEN	SALESMAN	7698	02/20/1981	1600	300	30
7844	TURNER	SALESMAN	7698	09/08/1981	1500		30
7654	MARTIN	SALESMAN	7698	09/28/1981	1250	1400	30
7521	WARD	SALESMAN	7698	02/22/1981	1250	500	30
7900	JAMES .	CLERK	7698	12/03/1981	950		30

Task 12

FIND ALL EMPLOYEES IN DEPARTMENT NUMBER 10 WHOSE JOBS ARE THE SAME AS THE EMPLOYEES JOB IN THE SALES DEPARTMENT. Query:

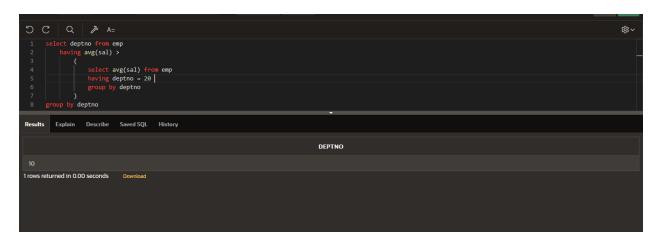


FIND ALL THE DEPARTMENTS, WHICH HAVE AN-AVERAGE SALARY IS GREATER THAN DEPARTMENT NUMBER 20.

Query:

```
select deptno from emp
  having avg(sal) >
    (
        select avg(sal) from emp
        having deptno = 20
        group by deptno
    )
group by deptno
```

Output:



Task 14

DISPLAY THE NAMES AND HIRE DATES FOR ALL EMPLOYEES WHO WERE HIRED BEFORE THEIR MANAGERS, ALONG WITH THEIR MANAGER'S NAMES AND HIRE DATES. LABEL THE COLUMNS EMPLOYEE, EMP HIRED, MANAGER, AND MGR HIRED, RESPECTIVELY.

Query:

```
select e.ename "EMPLOYEE",

TO_CHAR(e.hiredate,'Month-dd-yyyy') "EMP HIRING DATE",

m.ename "MANAGER",

TO_CHAR(m.hiredate,'Month-dd-
yyyy') "MGR HIRING DATE" from emp e left join emp m on m.empno=e.mgr

where e.hiredate<m.hiredate
```

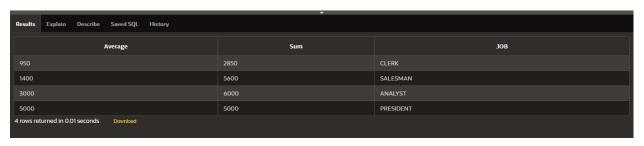
Output:



Task 15

FIND AVERAGE AND SUM OF THE SALARIES OF EACH JOB EXCLUDING THE JOB OF BLAKE.

Query:



FIND ALL JOBS WITH EITHER THE SAME OR AS 'CLARK' OR SALARY GREATER THAN OR EQUAL TO FORD, ORDER BY JOB AND SALARY

Query:

