

22f-3104

DB Lab 8



March 22, 2024

fast cfd campus

**Task 1:**

**1. Display employees with their department number and name**

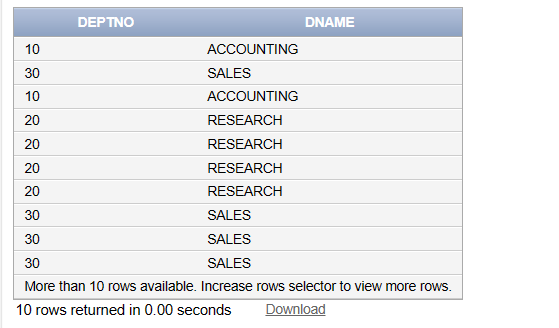
**Code :**

SELECT dept.deptno,dept.dname

FROM EMP

JOIN dept ON EMP.deptno=dept.deptno;

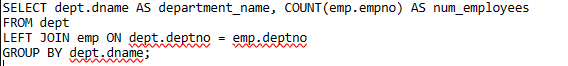
**Screen Shot:**



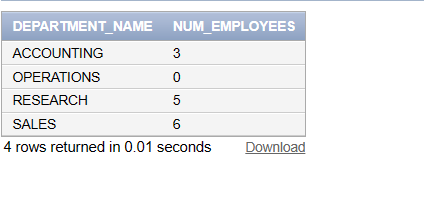
**2.Count the number of employees, working in each department. Display with**

**department name.**

**Code:**

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**Screen Shot:**



**3. How many employees are there, who are working in sales department.**

**Code:**

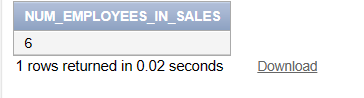
SELECT COUNT(emp.empno) AS num\_employees\_in\_sales

FROM emp

JOIN dept ON emp.deptno = dept.deptno

WHERE dept.dname = 'SALES';

**Screen Shot:**

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**4. Which department is having greater than or equal to 5 employees and display the**

**department names in ascending order?**

**Code:**

SELECT d.DNAME, emp\_count.number\_of\_emps

FROM DEPT d

JOIN (

SELECT DEPTNO, COUNT(\*) AS number\_of\_emps

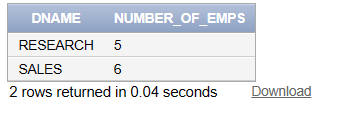
FROM EMP GROUP BY DEPTNO

HAVING COUNT(\*) >= 5

) emp\_count ON d.DEPTNO = emp\_count.DEPTNO

ORDER BY d.DNAME ASC;

**Screen Shot:**

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**5. List out the total salary of each department**

**Code:**

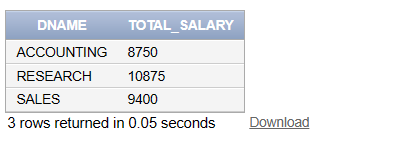
SELECT d.DNAME, SUM(e.SAL) AS Total\_Salary

FROM DEPT d

JOIN EMP e ON d.DEPTNO = e.DEPTNO

GROUP BY d.DNAME;

**Screen Shot:**

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**6. Display employee details with all departments.**

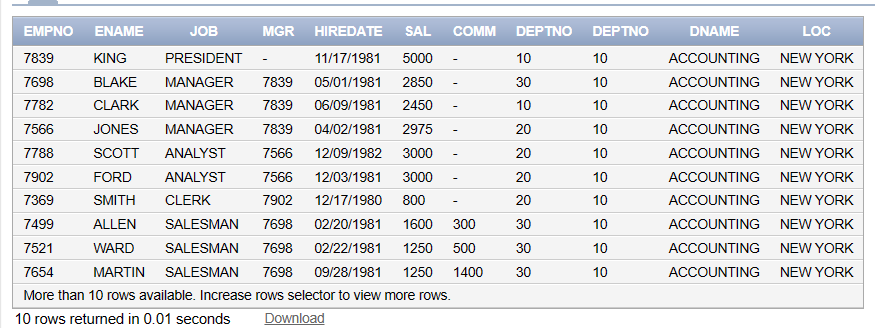
**Code:**

SELECT e.\*, d.\*

FROM EMP e

CROSS JOIN DEPT d;

**Screen Shot:**

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**7. Display the employee details working as mangers.**

**Code:**

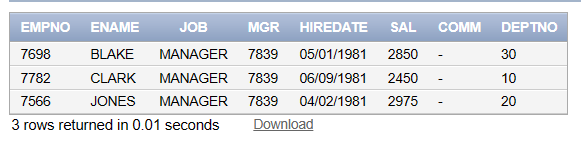
SELECT e.\*

FROM EMP e

JOIN EMP m ON e.MGR = m.EMPNO

WHERE e.JOB = 'MANAGER';

**Screen Shot:**

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**8. List all departments, including those with no employees (outer join)**

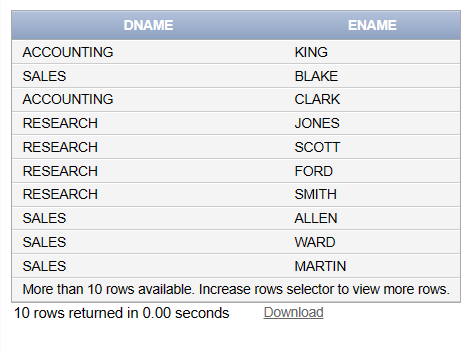
**Code:**

SELECT d.DNAME, e.ENAME

FROM DEPT d

LEFT OUTER JOIN EMP e ON d.DEPTNO = e.DEPTNO;

**Screen Shot:**

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**9. Display the employee details who earn more than managers’ average salary**

**Code:**

SELECT e.\*

FROM EMP e

JOIN EMP m ON e.MGR = m.EMPNO

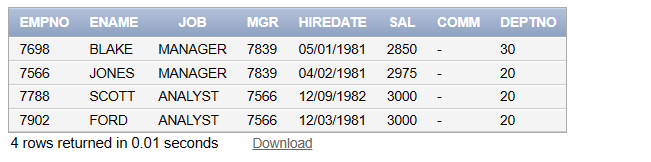
JOIN (

SELECT AVG(SAL) AS AVG\_Manager\_Salary

FROM EMP

) avg\_mgr ON e.SAL > avg\_mgr.AVG\_Manager\_Salary;

**Screen Shot:**

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**10. Show the no. of employees working under research department.**

**Code:**

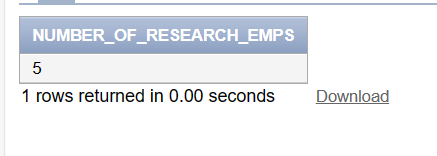
SELECT COUNT(\*) AS NUMBER\_OF\_RESEARCH\_EMPS

FROM EMP e

JOIN DEPT d ON e.DEPTNO=d.DEPTNO

WHERE d.DNAME='RESEARCH';

**Screen Shot:**

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**11. Display the details of employees and their corresponding departments, excluding**

**employees with no department (inner join)**

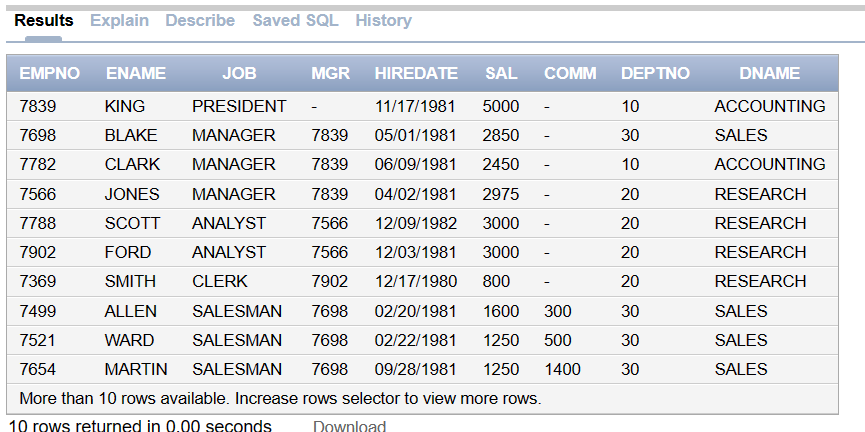
**Code:**

SELECT e.\*,d.DNAME

FROM EMP e

INNER JOIN DEPT d ON e.DEPTNO=d.DEPTNO;

**Screen Shot:**

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**12. Display employees with their department name, but also include departments**

**without employees (using outer join)**

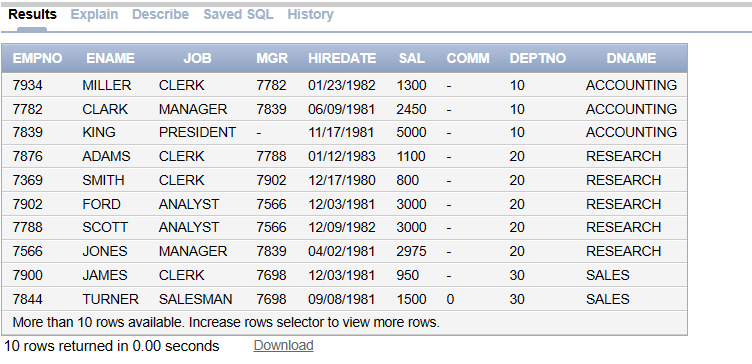
**Code:**

SELECT e.\*, d.DNAME

FROM DEPT d

RIGHT OUTER JOIN EMP e ON e.DEPTNO=d.DEPTNO;

**Screen Shot:**

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**13. Create two SELECT statements to retrieve a list of employees from two different**

**departments (e.g., Accounting and Sales). Use the UNION operator to combine**

**these lists into a single result set.**

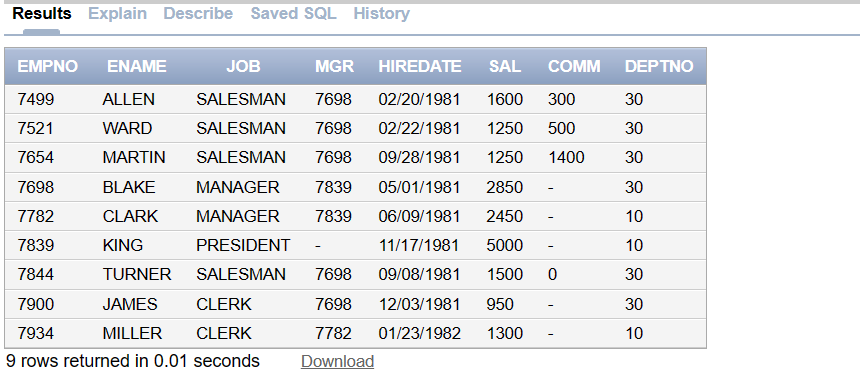
**Code:**

SELECT \* FROM EMP WHERE DEPTNO=(SELECT DEPTNO FROM DEPT WHERE DNAME='ACCOUNTING')

UNION

SELECT \* FROM EMP WHERE DEPTNO=(SELECT DEPTNO FROM DEPT WHERE DNAME='SALES');

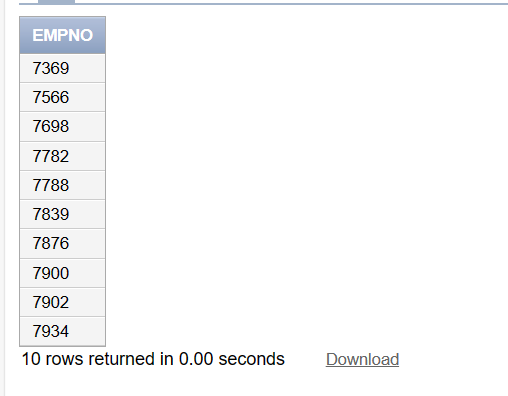
**Screen Shot:**

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**14. Retrieve a list of employee IDs from the ‘emp’table who have not yet earned any commission. Use the MINUS operator to find the records.**

**Code :**

**Screen Shot:**

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**15. Retrieve a list of employees who are assigned to both the ‘7839’ and ‘7968’;**

**Managers (MGR). Use the INTERSECT operator to find the common employees.**

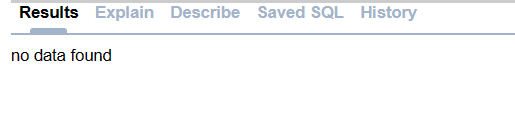
**Code :**

SELECT EMPNO FROM EMP WHERE mgr=7839

INTERSECT

SELECT EMPNO FROM EMP WHERE mgr =7968

**Screen Shot:**

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