

## Assignment 3

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1. List the names of employees and the name of their managers.

```
SELECT MANAGER.ENAME EMPLOYEE, EMP.ENAME MANAGER FROM (SELECT  
ENAME, MGR FROM EMP) MANAGER, EMP WHERE MANAGER.MGR =  
EMP.EMPNO;
```

EMPLOYEE	MANAGER
SCOTT	JONES
FORD	JONES
ALLEN	BLAKE
WARD	BLAKE
MARTIN	BLAKE
TURNER	BLAKE
JAMES	BLAKE
MILLER	CLARK
ADAMS	SCOTT
JONES	KING
BLAKE	KING
CLARK	KING
SMITH	FORD

2. List the department names and the total number of employees in each department.

```
SELECT G.NUM_OF_EMPLOYEES, DEPT.DNAME FROM (SELECT COUNT(ENAME)  
NUM_OF_EMPLOYEES, DEPTNO FROM EMP GROUP BY DEPTNO) G, DEPT WHERE  
G.DEPTNO = DEPT.DEPTNO;
```

NUM_OF_EMPLOYEES	DNAME
6	SALES
3	ACCOUNTING
5	RESEARCH

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3. Show the employee names, job titles, and salaries of employees who work in departments located in 'CHICAGO' or 'DALLAS'.

```
SELECT EMP.ENAME, EMP.JOB, EMP.SAL FROM (SELECT DEPTNO, DNAME FROM  
DEPT WHERE LOC = 'CHICAGO' OR LOC = 'DALLAS') DEPARTMENT,EMP WHERE  
EMP.DEPTNO = DEPARTMENT.DEPTNO;
```

ENAME	JOB	SAL
SMITH	CLERK	800
ALLEN	SALESMAN	1600
WARD	SALESMAN	1250
JONES	MANAGER	2975
MARTIN	SALESMAN	1250
BLAKE	MANAGER	2850
SCOTT	ANALYST	3000
TURNER	SALESMAN	1500
ADAMS	CLERK	1100
JAMES	CLERK	950
FORD	ANALYST	3000

4. Show the department names and the highest salary among employees in each department.

```
SELECT MSAL.HIGHEST_SAL, DEPT.DNAME FROM (SELECT MAX(SAL)  
HIGHEST_SAL,DEPTNO FROM EMP GROUP BY DEPTNO) MSAL, DEPT WHERE  
MSAL.DEPTNO = DEPT.DEPTNO;
```

HIGHEST_SAL	DNAME
2850	SALES
5000	ACCOUNTING
3000	RESEARCH

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5. Display the employee names and their hire dates, sorted by hire date in descending order.

**SELECT ENAME, HIREDATE FROM EMP ORDER BY HIREDATE DESC;**

ENAME	HIREDATE
ADAMS	23-MAY-87
SCOTT	19-APR-87
MILLER	23-JAN-82
FORD	03-DEC-81
JAMES	03-DEC-81
KING	17-NOV-81
MARTIN	28-SEP-81
TURNER	08-SEP-81
CLARK	09-JUN-81
BLAKE	01-MAY-81
JONES	02-APR-81
WARD	22-FEB-81
ALLEN	20-FEB-81
SMITH	17-DEC-80