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PROGRAM 3

RETRIEVING DATA – SET 2 (EMPLOYEE TABLE)

1. Employees & jobs in Dept 30, ordered by salary (DESC)
2. Job & DeptNo of employees
3. Names of employees starting with S
4. Names of employees ending with S
5. Employees working in Dept 10 / 20 / 40
6. Employee number & name of employees who earn commission
7. Employee number & total salary for each employee
8. Employee number & annual salary
9. Employees who are clerks earning > 3000
10. Employees who are clerk / salesman / analyst and earning > 3000

QUERY:-

```
mysql> SELECT ename, job, sal FROM employee
[    -> WHERE sal BETWEEN 1200 AND 1400;
+-----+-----+-----+
| ename | job    | sal   |
+-----+-----+-----+
| WARD  | SALESMAN | 1250 |
| MARTIN | SALESMAN | 1250 |
| MILLER | CLERK   | 1300 |
+-----+-----+-----+
3 rows in set (0.002 sec)

mysql> SELECT ename, deptno FROM employee
[    -> WHERE job IN ('CLERK', 'ANALYST', 'SALESMAN');
+-----+-----+
| ename | deptno |
+-----+-----+
| SMITH |      20 |
| ALLEN |      30 |
| WARD  |      30 |
| MARTIN |      30 |
| SCOTT |      40 |
| TURNER |      30 |
| ADAMS |      20 |
| JAMES |      30 |
| FORD  |      20 |
| MILLER |      10 |
+-----+-----+
10 rows in set (0.001 sec)

mysql> SELECT ename, deptno FROM employee
[    -> WHERE ename LIKE 'M%';
+-----+-----+
| ename | deptno |
+-----+-----+
| MARTIN |      30 |
| MILLER |      10 |
+-----+-----+
2 rows in set (0.002 sec)

mysql> SELECT ename, job, sal FROM employee
[    -> WHERE deptno = 30 ORDER BY sal DESC;
+-----+-----+-----+
| ename | job    | sal   |
+-----+-----+-----+
| BLAKE | MANAGER | 2850 |
| ALLEN | SALESMAN | 1600 |
| TURNER | SALESMAN | 1500 |
| WARD  | SALESMAN | 1250 |
| MARTIN | SALESMAN | 1250 |
| JAMES | CLERK   |  950 |
+-----+-----+-----+
6 rows in set (0.001 sec)
```

```

mysql> SELECT job, deptno FROM employee
[   -> WHERE ename LIKE 'A___N';
+-----+-----+
| job    | deptno |
+-----+-----+
| SALESMAN |    30 |
+-----+-----+
1 row in set (0.001 sec)

mysql> SELECT ename FROM employee
[   -> WHERE ename LIKE 'S%';
+-----+
| ename |
+-----+
| SMITH |
| SCOTT |
+-----+
2 rows in set (0.001 sec)

mysql> SELECT ename FROM employee
[   -> WHERE ename LIKE '%S';
+-----+
| ename |
+-----+
| JONES |
| ADAMS |
| JAMES |
+-----+
3 rows in set (0.001 sec)

mysql> SELECT ename FROM employee
    -> WHERE deptno IN (10,20,40) OR job IN ('CLERK', 'SALESMAN', 'ANALYST');
+-----+
| ename |
+-----+
| SMITH |
| ALLEN |
| WARD |
| JONES |
| MARTIN |
| CLARK |
| SCOTT |
| KING |
| TURNER |
| ADAMS |
| JAMES |
| FORD |
| MILLER |
+-----+
13 rows in set (0.001 sec)

mysql> SELECT empno, ename FROM employee
[   -> WHERE comm IS NOT NULL AND comm > 0; --IS NOT NULL → commission exists
+-----+-----+
| empno | ename  |
+-----+-----+
| 7499 | ALLEN |
| 7521 | WARD  |
| 7654 | MARTIN |
+-----+-----+
3 rows in set (0.002 sec)

```

```
SELECT empno, (sal + IFNULL(comm,0)) AS tota' at line 1
mysql> SELECT empno, (sal + IFNULL(comm,0)) AS total_salary
[    -> FROM employee; -- IFNULL(comm,0) avoids NULL issue
+-----+-----+
| empno | total_salary |
+-----+-----+
| 7369 |      800 |
| 7499 |    1900 |
| 7521 |    1550 |
| 7566 |    2975 |
| 7654 |    2650 |
| 7698 |    2850 |
| 7782 |    2450 |
| 7788 |    3000 |
| 7839 |    5000 |
| 7844 |    1500 |
| 7876 |    1100 |
| 7900 |    950 |
| 7902 |    3000 |
| 7934 |    1300 |
+-----+
14 rows in set (0.001 sec)

[mysql> SELECT empno, sal*12 AS annual_salary FROM employee;
+-----+-----+
| empno | annual_salary |
+-----+-----+
| 7369 |      9600 |
| 7499 |    19200 |
| 7521 |    15000 |
| 7566 |    35700 |
| 7654 |    15000 |
| 7698 |    34200 |
| 7782 |    29400 |
| 7788 |    36000 |
| 7839 |    60000 |
| 7844 |    18000 |
| 7876 |    13200 |
| 7900 |    11400 |
| 7902 |    36000 |
| 7934 |    15600 |
+-----+
14 rows in set (0.001 sec)

mysql> SELECT ename FROM employee
[    -> WHERE job = 'CLERK' AND sal > 3000;
Empty set (0.001 sec)

mysql> SELECT ename FROM employee
[    -> WHERE job IN ('CLERK', 'SALESMAN', 'ANALYST') AND sal > 3000;
Empty set (0.001 sec)
```