

Vishnu Tyagi
2CSE9
2410031720

PROGRAM-2

1. List all distinct jobs in Employee.
2. List all information about employees in Department 30.
3. Find all department numbers with department names greater than 20.
4. Find all information about managers as well as clerks in department 30.
5. List employee name, employee number and department of all clerks.
6. Find all managers not in department 30.
7. List information about employees in department 10 who are not managers or clerks.
8. Find employees and jobs earning between 1200 and 1400.
9. List name and department number of employees who are clerks, analyst or salesman.
10. List name and department number of employees whose names began with letter 'M'.

```
[mysql> SELECT DISTINCT job FROM Employee;
+-----+
| job |
+-----+
| CLERK |
| SALESMAN |
| MANAGER |
| ANALYST |
| PRESIDENT |
+-----+
5 rows in set (0.005 sec)

[mysql> SELECT * FROM Employee WHERE deptno = 30;
+-----+
| empno | ename | job | mgr | hiredate | sal | comm | deptno |
+-----+
| 7499 | ALLEN | SALESMAN | 7698 | 1981-02-20 | 1600 | 300 | 30 |
| 7521 | WARD | SALESMAN | 7698 | 1981-02-22 | 1250 | 300 | 30 |
| 7654 | MARTIN | SALESMAN | 7698 | 1981-09-28 | 1250 | 1400 | 30 |
| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | NULL | 30 |
| 7844 | TURNER | SALESMAN | 7698 | 1981-09-08 | 1500 | 0 | 30 |
| 7900 | JAMES | CLERK | 7698 | 1981-12-03 | 950 | NULL | 30 |
+-----+
6 rows in set (0.003 sec)

[mysql> SELECT deptno FROM department WHERE deptno > 20;
+-----+
| deptno |
+-----+
| 30 |
| 40 |
+-----+
2 rows in set (0.002 sec)

[mysql> SELECT * FROM employee
[   -> WHERE deptno = 30 AND job IN ('MANAGER', 'CLERK');
+-----+
| empno | ename | job | mgr | hiredate | sal | comm | deptno |
+-----+
| 7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850 | NULL | 30 |
| 7900 | JAMES | CLERK | 7698 | 1981-12-03 | 950 | NULL | 30 |
+-----+
2 rows in set (0.001 sec)

[mysql> SELECT empno, ename, deptno FROM employee
[   -> WHERE job = 'CLERK';
+-----+
| empno | ename | deptno |
+-----+
| 7369 | SMITH | 20 |
| 7876 | ADAMS | 20 |
| 7900 | JAMES | 30 |
| 7934 | MILLER | 10 |
+-----+
4 rows in set (0.001 sec)

[mysql> SELECT * FROM employee
[   -> WHERE job = 'MANAGER' AND deptno <> 30;
+-----+
| empno | ename | job | mgr | hiredate | sal | comm | deptno |
+-----+
| 7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975 | NULL | 20 |
| 7782 | CLARK | MANAGER | 7839 | 1981-06-09 | 2450 | NULL | 20 |
+-----+
2 rows in set (0.002 sec)
```

```
mysql> SELECT * FROM employee
[    -> WHERE deptno = 10 AND job NOT IN ('MANAGER','CLERK');
Empty set (0.002 sec)

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)
```