

Vishnu Tyagi
2CSE9
2410031720

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)
```