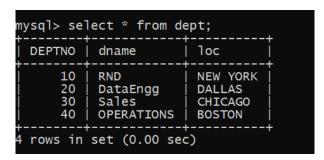
## **Database Assignment 2**

Use Emp, dept and salgrade table

MPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10



mysql> se	elect * 1	from salgrade;
GRADE	LOSAL	HISAL
1	700	1200
2	1201	1400
3	1401	2000
4	2001	3000
5	3001	9999
1	700	1200
2	1201	1400
] 3	1401	2000
4	2001	3000
5	3001	9999
j 1	700	1200
j 2	1201	1400
3	1401	2000
4	2001	3000
5	3001	9999
+		+ 0.03 sec)

1. To list all records with sal > 2000 and comm>200

/sql> s	elect * fr +	om emp;			·	·	
EMPNO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
	+	+		+	+	+	++
4 rows :	in set (0.	.00 sec)					
- 1			sal>20	300 and comm>2	200;		
mpty se	t (0.00 se	ec)					

## 2. To list all record with job='Clerk' or sal>2000

EMPNO	   ENAME	JOB	MGR	:lerk' or sal +   HIREDATE	+   SAL	COMM	H   DEPTNO
7369	+   SMITH	CLERK	   7902	   1980-12-17	+   800.00	+   NULL	+   20
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
.0 rows :	+in set (0.	.00 sec)		·	+	+	+

## 3. To list all the record with sal=1250 or 1100 or 2850

```
ERROR 1064 (42000): You have an error in your SOL syntax; check the manual
mysql> select * from emp where sal in (1250,1100,2850);
  EMPNO
          ENAME
                               MGR
                                                     SAL
                                                                COMM
                                                                          DEPTNO
   7521
          WARD
                    SALESMAN
                                7698
                                       1981-02-22
                                                     1250.00
                                                                 500.00
                                                                               30
   7654
          MARTIN
                    SALESMAN
                               7698
                                       1981-09-28
                                                     1250.00
                                                                1400.00
                                                                               30
   7698
          BLAKE
                    MANAGER
                               7839
                                       1981-05-01
                                                     2850.00
                                                                   NULL
                                                                               30
                                       1983-01-12
   7876
          ADAMS
                    CLERK
                               7788
                                                     1100.00
                                                                   NULL
                                                                               20
 rows in set (0.00 sec)
```

#### 4. To list all employees with sal>1250 and <2850

```
mysql> select * from emp where sal>1250 and sal<2850;
 EMPNO
          ENAME
                    JOB
                               MGR
                                       HTRFDATE
                                                    SAL
                                                               COMM
                                                                         DEPTNO
                                                     1600.00
  7499
          ALLEN
                    SALESMAN
                               7698
                                       1981-02-20
                                                                300.00
                                                                              30
  7782
          CLARK
                   MANAGER
                               7839
                                       1981-06-09
                                                     2450.00
                                                                  NULL
                                                                              10
  7844
          TURNER
                    SALESMAN
                               7698
                                       1981-09-08
                                                     1500.00
                                                                  0.00
                                                                              30
  7934
          MILLER
                   CLERK
                               7782
                                       1982-01-23
                                                     1300.00
                                                                  NULL
                                                                              10
 rows in set (0.00 sec)
```

#### 5. To list all employees with name ends with AS

```
mysql> select * from emp where ename regexp 'as$';
Empty set (0.01 sec)
mysql> select * from emp where ename regexp 'es$';
                                                                     DEPTNO
  EMPNO
         ENAME
                   JOB
                             MGR
                                     HIREDATE
                                                   SAL
                                                             COMM
          JONES
                  MANAGER
                             7839
                                                   2975.00
                                                                         20
                                     1981-04-02
   7900
          JAMES
                   CLERK
                                     1981-12-03
                                                                         30
                             7698
                                                    950.00
                                                             NULL
```

6. To list all employees with job starts with C and ends with K

```
mysql> select * from emp where job between 'L' and 'K';
Empty set (0.00 sec)
mysql> select * from emp where job between 'L' and 'K';
Empty set (0.00 sec)
mysql> select * from emp where job between 'C' and 'K';
 EMPNO
         ENAME
                 JOB
                           MGR
                                   HIREDATE
                                                SAL
                                                           COMM | DEPTNO
          SMITH
                   CLERK
                            7902
                                                 800.00
   7369
                                   1980-12-17
                                                           NULL
                                                                      20
   7876
                   CLERK
                            7788
                                   1983-01-12
                                                1100.00
                                                           NULL
          ADAMS
                                                                      20
   7900
          JAMES
                   CLERK
                            7698
                                   1981-12-03
                                                 950.00
                                                           NULL
                                                                      30
   7934
          MILLER
                   CLERK
                           7782
                                   1982-01-23
                                                 1300.00
                                                           NULL
                                                                      10
  rows in set (0.00 sec)
```

6. To list all employees with job contains L at third position and M at third last position.

```
mysql> select * from emp where job regexp '^..l.*m..$';
 EMPNO
         ENAME
                 | JOB
                              MGR
                                     HIREDATE
                                                   SAL
                                                              COMM
                                                                        DEPTNO
  7499
         ALLEN
                   SALESMAN
                              7698
                                      1981-02-20
                                                   1600.00
                                                               300.00
                                                                             30
  7521
         WARD
                   SALESMAN
                              7698
                                      1981-02-22
                                                   1250.00
                                                               500.00
                                                                             30
  7654
         MARTIN
                   SALESMAN
                               7698
                                      1981-09-28
                                                   1250.00
                                                              1400.00
                                                                             30
         TURNER
                   SALESMAN
                              7698
                                      1981-09-08
                                                   1500.00
                                                                 0.00
                                                                             30
 rows in set (0.00 sec)
```

7. To list all the record with sal not equal to 1250 or 1100 or 2850

```
mysql> select * from emp where sal not in(1250,100,2850);
 EMPNO
          ENAME
                    JOB
                                 MGR
                                         HIREDATE
                                                       SAL
                                                                  COMM
                                                                            DEPTNO
                    CLERK
                                 7902
                                         1980-12-17
  7369
          SMITH
                                                        800.00
                                                                    NULL
                                                                                 20
                    SALESMAN
  7499
          ALLEN
                                 7698
                                         1981-02-20
                                                       1600.00
                                                                  300.00
                                                                                 30
                                         1981-04-02
          JONES
                    MANAGER
                                                                    NULL
  7566
                                 7839
                                                       2975.00
                                                                                 20
          CLARK
                    MANAGER
                                 7839
                                         1981-06-09
                                                       2450.00
                                                                    NULL
                                                                                 10
  7782
                    ANALYST
  7788
          SCOTT
                                 7566
                                         1982-12-09
                                                       3000.00
                                                                    NULL
                                                                                 20
                    PRESIDENT
                                 NULL
                                         1981-11-17
  7839
          KING
                                                       5000.00
                                                                    NULL
                                                                                 10
                    SALESMAN
  7844
          TURNER
                                         1981-09-08
                                                       1500.00
                                                                     0.00
                                                                                 30
                                 7698
  7876
          ADAMS
                    CLERK
                                         1983-01-12
                                                       1100.00
                                                                                 20
                                 7788
                                                                    NULL
  7900
          JAMES
                    CLERK
                                 7698
                                         1981-12-03
                                                        950.00
                                                                    NULL
                                                                                 30
  7902
          FORD
                    ANALYST
                                 7566
                                         1981-12-03
                                                       3000.00
                                                                    NULL
                                                                                 20
   7934
          MILLER
                    CLERK
                                 7782
                                         1982-01-23
                                                       1300.00
                                                                    NULL
                                                                                 10
  rows in set (0.00 sec)
```

### 9. To list all employees with sal not >1250 and <2850

EMPNO	ENAME	JOB	MGR	+   HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK		+   1980-12-17		NULL	: :
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902 İ	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20

10. To list all employees with job starts with C , E at 3rd position and ends with K

```
mysql> select * from emp where job regexp '^c.e.*k$';
 EMPNO | ENAME
               JOB
                       MGR
                              HIREDATE
                                          SAL
                                                    | COMM | DEPTNO
  7369
        SMITH
                 CLERK |
                        7902 | 1980-12-17
                                           800.00
                                                     NULL
                                                                20
                                                     NULL
  7876
        ADAMS
                 CLERK |
                        7788 | 1983-01-12
                                          1100.00
                                                                20
                        7698
  7900
        JAMES
                 CLERK
                               1981-12-03
                                            950.00
                                                     NULL
                                                                30
  7934
        MILLER |
                 CLERK | 7782 |
                               1982-01-23 | 1300.00
                                                     NULL
                                                                10
```

#### 11. To list all rows with comm is null

MPNO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

# 12. To list all employees with sal is null and name starts with 'S'

```
mysql> select * from emp where comm is null and ename='Smith';

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |

| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800.00 | NULL | 20 |

1 row in set (0.00 sec)

mysql> select * from emp where comm is null and ename='S';

Empty set (0.00 sec)

mysql> select * from emp where comm is null and ename>'r';

| EMPNO | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPTNO |

| 7369 | SMITH | CLERK | 7902 | 1980-12-17 | 800.00 | NULL | 20 |

| 7788 | SCOTT | ANALYST | 7566 | 1982-12-09 | 3000.00 | NULL | 20 |

2 rows in set (0.00 sec)

mysql> select * from emp where sal is null and ename>'r';

Empty set (0.00 sec)
```

#### 13. To list all employees with job contains 5 characters

```
mysql> select * from emp where job regexp '^.....$';
                  JOB
                          | MGR | HIREDATE
                                                SAL
                                                           | COMM | DEPTNO |
  EMPNO | ENAME
                   CLERK | 7902 |
CLERK | 7788 |
CLERK | 7698 |
                                    1980-12-17
                                                   800.00
                                                            NULL
   7369
          SMITH
                                                                         20
                            7788 | 1983-01-12
   7876
          ADAMS
                                                 1100.00
                                                            NULL
                                                                         20
   7900
          JAMES
                            7698 | 1981-12-03
                                                  950.00
                                                            NULL
                                                                        30
   7934 | MILLER | CLERK | 7782 | 1982-01-23 | 1300.00
                                                            NULL
                                                                        10
 rows in set (0.00 sec)
```

14. To list all employees with name contain 'A' at 1 position and job Contains 5 characters