Assignment 1

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

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

```
mysql> select *
   -> from emp
    -> where sal > 2000;
 EMPNO | ENAME | JOB
                             | MGR | HIREDATE | SAL
                                                             | COMM | DEPTNO |
  7566 | JONES | MANAGER | 7839 | 1981-04-02 | 2975.00
7698 | BLAKE | MANAGER | 7839 | 1981-05-01 | 2850.00
                                                             NULL
                                                                          20
                                                               NULL
                                                                          30
                                    | 1981-06-09 | 2450.00
  7782 | CLARK
                                                               NULL
                             7839
                  MANAGER
                                                                           10
        SCOTT
                                     1982-12-09 | 3000.00
   7788
                  ANALYST
                               7566
                                                               NULL
                                                                           20
  7839
         KING
                  PRESIDENT
                              NULL
                                      1981-11-17
                                                    5000.00
                                                               NULL
                                                                           10
  7902 | FORD | ANALYST | 7566 | 1981-12-03 | 3000.00 | NULL |
                                                                           20
6 rows in set (0.00 sec)
mysql> select *
   -> from emp
   -> where sal > 2000 and comm > 200;
Empty set (0.00 sec)
```

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

	om emp	= 'clerk' or	sal > 2	2000;			
EMPNO	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
++ 10 rows i	in set (0.	.01 sec)	·	+ -	·	+	++

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

-> wh	om emp ere sal i	in (1250,116	- ,);			
EMPNO	ENAME	ЈОВ	MGR	HIREDATE		COMM	DEPTNO
7521 7654 7698 7876	WARD MARTIN BLAKE ADAMS	SALESMAN SALESMAN MANAGER CLERK	7698 7698 7839 7788	1981-02-22 1981-09-28 1981-05-01 1983-01-12	1250.00 1250.00 2850.00 1100.00	500.00 1400.00 NULL NULL	30 30 30 20
	set (0.6		+				++

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

-> from emp -> where sal b						
] ЈОВ	MGR	HIREDATE	SAL	COMM	DEPTNO
7499 ALLEN 7782 CLARK 7844 TURNER 7934 MILLER	SALESMAN MANAGER SALESMAN CLERK	7698 7839 7698 7782	1981-02-20 1981-06-09 1981-09-08 1982-01-23	1600.00 2450.00 1500.00 1300.00	300.00 NULL 0.00 NULL	30 10 30 10

5. To list all employees with name ends with AS

```
mysql> select *
-> from emp
-> where ename like '%AS';
Empty set (0.03 sec)
```

```
mysql> select *
    -> from emp
    -> where ename regexp 'ER$';
 EMPNO | ENAME | JOB
                           MGR
                                  HIREDATE
                                                SAL
                                                          COMM | DEPTNO
   7844 | TURNER | SALESMAN |
                             7698 | 1981-09-08
                                               1500.00
                                                                     30
                                                          0.00
                           7782 | 1982-01-23 | 1300.00 |
   7934 | MILLER | CLERK
 rows in set (0.01 sec)
```

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

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

```
mysql> select *
   -> from emp
   -> where job regexp '^C.*k$';
 EMPNO | ENAME
                                            SAL
                                                       COMM | DEPTNO |
                JOB
                        MGR
                               HIREDATE
                  CLERK | 7902
                                                       NULL
  7369
         SMITH
                                1980-12-17
                                             800.00
                                                                  20
  7876
         ADAMS
                  CLERK
                         7788
                                1983-01-12
                                             1100.00
                                                       NULL
                                                                  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)
```

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

```
mysql> select *
    -> from emp
    -> where job like '__L%M_
  EMPNO | ENAME
                  JOB
                                     HIREDATE
                                                 SAL
                                                            COMM
                                                                     DEPTNO
                             MGR
                   SALESMAN
                                                                           30
   7499
          ALLEN
                              7698
                                     1981-02-20
                                                   1600.00
                                                              300.00
   7521
                   SALESMAN
                              7698
                                     1981-02-22
                                                   1250.00
                                                                           30
          WARD
                                                              500.00
   7654
          MARTIN
                   SALESMAN
                              7698
                                     1981-09-28
                                                   1250.00
                                                             1400.00
                                                                           30
   7844 | TURNER | SALESMAN
                              7698
                                     1981-09-08
                                                  1500.00
                                                                0.00
                                                                           30
 rows in set (0.00 sec)
```

```
mysql> select *
    -> from emp
    -> where job regexp '..L.*M..$';
                                                            COMM
          ENAME
                                                  SAL
 EMPNO
                   JOB
                             MGR | HIREDATE
                                                                        DEPTNO
  7499
          ALLEN
                   SALESMAN
                              7698
                                      1981-02-20
                                                    1600.00
                                                               300.00
                                                                             30
                   SALESMAN
  7521
          WARD
                              7698
                                      1981-02-22
                                                    1250.00
                                                               500.00
                                                                             30
                   SALESMAN
                                      1981-09-28
  7654
          MARTIN
                               7698
                                                    1250.00
                                                              1400.00
                                                                             30
                   SALESMAN
   7844
          TURNER
                              7698
                                      1981-09-08
                                                   1500.00
                                                                 0.00
                                                                             30
 rows in set (0.00 sec)
```

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

```
mysql> select
    -> from emp
    -> where sal not in(1250,1100,2850);
          ENAME
                  JOB
                                MGR
                                        HIREDATE
                                                      SAL
                                                               COMM
                                                                           DEPTNO
   7369
          SMITH
                    CLERK
                                 7902
                                        1980-12-17
                                                       800.00
                                                                   NULL
                                                                               20
          ALLEN
                    SALESMAN
                                        1981-02-20
                                                                 300.00
   7499
                                 7698
                                                      1600.00
                                                                               30
                                                      2975.00
   7566
          JONES
                    MANAGER
                                 7839
                                        1981-04-02
                                                                   NULL
                                                                               20
   7782
          CLARK
                    MANAGER
                                 7839
                                        1981-06-09
                                                      2450.00
                                                                   NULL
                                                                               10
                                        1982-12-09
   7788
          SCOTT
                    ANALYST
                                 7566
                                                      3000.00
                                                                   NULL
                                                                               20
                                        1981-11-17
   7839
          KING
                    PRESIDENT
                                 NULL
                                                      5000.00
                                                                   NULL
                                                                               10
                    SALESMAN
                                        1981-09-08
   7844
          TURNER
                                 7698
                                                      1500.00
                                                                   0.00
                                                                               30
   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
                                        1982-01-23
                                                      1300.00
                                                                   NULL
                                 7782
                                                                               10
10 rows in set (0.00 sec)
```

9. To list all employees with salnot >1250 and <2850

EMPNO ENAME JOB 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 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	mysql> select * -> from emp -> where sal not between 1250 and 2850;									
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	EMPNO	ENAME	JOВ	MGR	HIREDATE	:		: :		

10. To list all employees with job starts with C , E at 3rd position and ends with $\ensuremath{\mathrm{K}}$

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

	elect * rom emp mere job m	regexp '	`C.E.*K	\$';					
EMPNO	ENAME	ЈОВ	MGR	HIREDATE	SAL	COMM			
7369 7876 7900 7934	7876 ADAMS CLERK 7788 1983-01-12 1100.00 NULL 20 7900 JAMES CLERK 7698 1981-12-03 950.00 NULL 30								
4 rows in	set (0.6	90 sec)							

11. To list all rows with comm is null

	elect * rom emp nere comm	is null;						
EMPNO	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								
+ 10 rows i	++							

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

```
mysql> select *
   -> from emp
   -> where comm is null and ename regexp '^S';
 EMPNO | ENAME | JOB
                           | MGR | HIREDATE | SAL
                                                           | COMM | DEPTNO |
                           | 7902 | 1980-12-17 |
| 7566 | 1982-12-09 |
  7369 | SMITH | CLERK
                                                  800.00
                                                            NULL
                                                                         20
  7788 | SCOTT | ANALYST
                                                  3000.00
                                                             NULL
                                                                         20
 rows in set (0.00 sec)
```

13. To list all employees with job contains 5 characters

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

```
mysql> select *
   -> from emp
   -> where job regexp '^....$';
                                           SAL
 EMPNO | ENAME
                JOB
                        MGR | HIREDATE
                                                     COMM DEPTNO
                                                                 20
  7369
       SMITH
                 CLERK
                         7902
                              | 1980-12-17 |
                                             800.00
                                                      NULL
                               | 1983-01-12 | 1100.00
  7876
         ADAMS
                 CLERK
                         7788
                                                      NULL
                                                                 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)
```

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