Assignment No:2(Group B)

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Title: Design and implement a database and apply at least 10 different DML queries for the following task. For a given input string display only those records which match the given pattern or a phrase in the search string. Make use of wild characters and LIKE operator for the same. Make use of Boolean and arithmetic operators wherever necessary.

Batch No: T1 Roll No:06

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mysql>create database tejas;

Query OK, 1 row affected (0.00 sec)

mysql> use tejas;

mysql> create table EMP(EMP\_ID integer(10),

-> ENAME char(15),

-> JOB char(15),

-> MGR integer(15),

-> HIREDATE date,

-> SAL integer(10),

-> COMM integer(10),

-> DEPT\_NO integer(15));

Query OK, 0 rows affected (0.18 sec)

mysql> desc EMP;

+----------+----------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+----------+------+-----+---------+-------+

| EMP\_ID | int(10) | YES | | NULL | |

| ENAME | char(15) | YES | | NULL | |

| JOB | char(15) | YES | | NULL | |

| MGR | int(15) | YES | | NULL | |

| HIREDATE | date | YES | | NULL | |

| SAL | int(10) | YES | | NULL | |

| COMM | int(10) | YES | | NULL | |

| DEPT\_NO | int(15) | YES | | NULL | |

+----------+----------+------+-----+---------+-------+

8 rows in set (0.01 sec)

mysql> insert into EMP values(7369,'Smith','clerk',7902,'1980-06-17',800,NULL,20);

Query OK, 1 row affected (0.06 sec)

mysql> insert into EMP values(7499,'Allen','Saleman',7698,'1981-12-20',1600,300,30);

Query OK, 1 row affected (0.02 sec)

mysql> insert into EMP values(7521,'Ward','Saleman',7698,'1981-02-22',1250,500,30);

Query OK, 1 row affected (0.03 sec)

mysql> insert into EMP values(7566,'Jones','Manager',7839,'1981-04-02',2975,NULL,20);

Query OK, 1 row affected (0.03 sec)

mysql> insert into EMP values(7654,'Martin','Saleman',7698,'1981-09-28',1250,1400,30);

Query OK, 1 row affected (0.04 sec)

mysql> insert into EMP values(7698,'Blake','Manager',7839,'1981-05-01',2850,NULL,30);

Query OK, 1 row affected (0.03 sec)

mysql> insert into EMP values(7782,'Clark','Manager',7539,'1981-06-09',2450,NULL,10);

Query OK, 1 row affected (0.03 sec)

mysql> insert into EMP values(7788,'Scott','Analyst',7566,'1981-04-19',1600,NULL,20);

Query OK, 1 row affected (0.04 sec)

mysql> insert into EMP values(7839,'King','President',NULL,'1981-11-17',5250,NULL,10);

Query OK, 1 row affected (0.03 sec)

mysql> insert into EMP values(7844,'Turner','saleman',7698,'1981-09-08',1500,0,10);

Query OK, 1 row affected (0.03 sec)

mysql> insert into EMP values(7876,'Adams','clerk',7876,'1981-05-23',1100,0,10);

Query OK, 1 row affected (0.03 sec)

mysql> insert into EMP values(7900,'James','clerk',7698,'1981-12-03',800,NULL,30);

Query OK, 1 row affected (0.03 sec)

mysql> select \* from EMP;

+--------+--------+-----------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+--------+-----------+------+------------+------+------+---------+

| 7369 | Smith | clerk | 7902 | 1980-06-17 | 800 | NULL | 20 |

| 7499 | Allen | Saleman | 7698 | 1981-12-20 | 1600 | 300 | 30 |

| 7521 | Ward | Saleman | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7566 | Jones | Manager | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7654 | Martin | Saleman | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7698 | Blake | Manager | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7782 | Clark | Manager | 7539 | 1981-06-09 | 2450 | NULL | 10 |

| 7788 | Scott | Analyst | 7566 | 1981-04-19 | 1600 | NULL | 20 |

| 7839 | King | President | NULL | 1981-11-17 | 5250 | NULL | 10 |

| 7844 | Turner | saleman | 7698 | 1981-09-08 | 1500 | 0 | 10 |

| 7876 | Adams | clerk | 7876 | 1981-05-23 | 1100 | 0 | 10 |

| 7900 | James | clerk | 7698 | 1981-12-03 | 800 | NULL | 30 |

+--------+--------+-----------+------+------------+------+------+---------+

12 rows in set (0.00 sec)

mysql> insert into emp1 select \* from EMP;

Query OK, 1 row affected (0.09 sec)

Records: 2 Duplicates: 0 Warnings:0

mysql> select \* from emp1;

+--------+--------+-----------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+--------+-----------+------+------------+------+------+---------+

| 7369 | Smith | clerk | 7902 | 1980-06-17 | 800 | NULL | 20 |

| 7499 | Allen | Saleman | 7698 | 1981-12-20 | 1600 | 300 | 30 |

| 7521 | Ward | Saleman | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7566 | Jones | Manager | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7654 | Martin | Saleman | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7698 | Blake | Manager | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7782 | Clark | Manager | 7539 | 1981-06-09 | 2450 | NULL | 10 |

| 7788 | Scott | Analyst | 7566 | 1981-04-19 | 1600 | NULL | 20 |

| 7839 | King | President | NULL | 1981-11-17 | 5250 | NULL | 10 |

| 7844 | Turner | saleman | 7698 | 1981-09-08 | 1500 | 0 | 10 |

| 7876 | Adams | clerk | 7876 | 1981-05-23 | 1100 | 0 | 10 |

| 7900 | James | clerk | 7698 | 1981-12-03 | 800 | NULL | 30 |

+--------+--------+-----------+------+------------+------+------+---------+

12 rows in set (0.00 sec)

mysql> select \* from EMP where sal>2000;

+--------+-------+-----------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+-------+-----------+------+------------+------+------+---------+

| 7566 | Jones | Manager | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7698 | Blake | Manager | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7782 | Clark | Manager | 7539 | 1981-06-09 | 2450 | NULL | 10 |

| 7839 | King | President | NULL | 1981-11-17 | 5250 | NULL | 10 |

+--------+-------+-----------+------+------------+------+------+---------+

4 rows in set (0.00 sec)

mysql> select distinct(SAL) from EMP;

+------+

| SAL |

+------+

| 800 |

| 1600 |

| 1250 |

| 2975 |

| 2850 |

| 2450 |

| 5250 |

| 1500 |

| 1100 |

+------+

9 rows in set (0.00 sec)

mysql> select \* from EMP order by HIREDATE;

+--------+--------+-----------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+--------+-----------+------+------------+------+------+---------+

| 7369 | smith | clerk | 7902 | 1980-06-17 | 800 | NULL | 20 |

| 7521 | ward | saleman | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7566 | jones | manager | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7788 | scott | analyst | 7566 | 1981-04-19 | 1600 | NULL | 20 |

| 7698 | blake | manager | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7876 | adams | clerk | 7876 | 1981-05-23 | 1100 | NULL | 10 |

| 7782 | clark | manager | 7539 | 1981-06-09 | 2450 | NULL | 10 |

| 7844 | turner | saleman | 7698 | 1981-09-08 | 1500 | NULL | 10 |

| 7654 | martin | saleman | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7839 | king | president | NULL | 1981-11-17 | 5250 | NULL | 10 |

| 7900 | james | clerk | 7698 | 1981-12-03 | 800 | NULL | 30 |

| 7499 | allen | saleman | 7698 | 1981-12-20 | 1600 | 300 | 30 |

+--------+--------+-----------+------+------------+------+------+---------+

12 rows in set (0.00 sec)

mysql> select \* from EMP order by HIREDATE desc;

+--------+--------+-----------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+--------+-----------+------+------------+------+------+---------+

| 7499 | allen | saleman | 7698 | 1981-12-20 | 1600 | 300 | 30 |

| 7900 | james | clerk | 7698 | 1981-12-03 | 800 | NULL | 30 |

| 7839 | king | president | NULL | 1981-11-17 | 5250 | NULL | 10 |

| 7654 | martin | saleman | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7844 | turner | saleman | 7698 | 1981-09-08 | 1500 | NULL | 10 |

| 7782 | clark | manager | 7539 | 1981-06-09 | 2450 | NULL | 10 |

| 7876 | adams | clerk | 7876 | 1981-05-23 | 1100 | NULL | 10 |

| 7698 | blake | manager | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7788 | scott | analyst | 7566 | 1981-04-19 | 1600 | NULL | 20 |

| 7566 | jones | manager | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7521 | ward | saleman | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7369 | smith | clerk | 7902 | 1980-06-17 | 800 | NULL | 20 |

+--------+--------+-----------+------+------------+------+------+---------+

12 rows in set (0.00 sec)

mysql> update EMP set SAL=5000 where EMP\_ID=7839;

Query OK, 1 row affected (0.08 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from EMP;

+--------+--------+-----------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+--------+-----------+------+------------+------+------+---------+

| 7369 | smith | clerk | 7902 | 1980-06-17 | 800 | NULL | 20 |

| 7499 | allen | saleman | 7698 | 1981-12-20 | 1600 | 300 | 30 |

| 7521 | ward | saleman | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7566 | jones | manager | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7654 | martin | saleman | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7698 | blake | manager | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7782 | clark | manager | 7539 | 1981-06-09 | 2450 | NULL | 10 |

| 7788 | scott | analyst | 7566 | 1981-04-19 | 1600 | NULL | 20 |

| 7839 | king | president | NULL | 1981-11-17 | 5000 | NULL | 10 |

| 7844 | turner | saleman | 7698 | 1981-09-08 | 1500 | NULL | 10 |

| 7876 | adams | clerk | 7876 | 1981-05-23 | 1100 | NULL | 10 |

| 7900 | james | clerk | 7698 | 1981-12-03 | 800 | NULL | 30 |

+--------+--------+-----------+------+------------+------+------+---------+

12 rows in set (0.00 sec)

mysql>delete from EMP where EMP\_ID=7369;

Query OK, 1 row affected (0.06 sec)

+--------+--------+-----------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+--------+-----------+------+------------+------+------+---------+

| 7499 | allen | saleman | 7698 | 1981-12-20 | 1600 | 300 | 30 |

| 7521 | ward | saleman | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7566 | jones | manager | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7654 | martin | saleman | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7698 | blake | manager | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7782 | clark | manager | 7539 | 1981-06-09 | 2450 | NULL | 10 |

| 7788 | scott | analyst | 7566 | 1981-04-19 | 1600 | NULL | 20 |

| 7839 | king | president | NULL | 1981-11-17 | 5000 | NULL | 10 |

| 7844 | turner | saleman | 7698 | 1981-09-08 | 1500 | NULL | 10 |

| 7876 | adams | clerk | 7876 | 1981-05-23 | 1100 | NULL | 10 |

| 7900 | james | clerk | 7698 | 1981-12-03 | 800 | NULL | 30 |

+--------+--------+-----------+------+------------+------+------+---------+

12 rows in set (0.00 sec)

mysql> select \* from EMP where sal between 2000 and 5000;

+--------+-------+---------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+-------+---------+------+------------+------+------+---------+

| 7566 | Jones | Manager | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7698 | Blake | Manager | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7782 | Clark | Manager | 7539 | 1981-06-09 | 2450 | NULL | 10 |

+--------+-------+---------+------+------------+------+------+---------+

3 rows in set (0.00 sec)

mysql> select \* from EMP where job IN('Marketing','Saleman','Analyst');

+--------+--------+---------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+--------+---------+------+------------+------+------+---------+

| 7499 | Allen | Saleman | 7698 | 1981-12-20 | 1600 | 300 | 30 |

| 7521 | Ward | Saleman | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7654 | Martin | Saleman | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7788 | Scott | Analyst | 7566 | 1981-04-19 | 1600 | NULL | 20 |

| 7844 | Turner | saleman | 7698 | 1981-09-08 | 1500 | 0 | 10 |

+--------+--------+---------+------+------------+------+------+---------+

5 rows in set (0.00 sec)

mysql> select ENAME from EMP where ENAME like 'S%';

+-------+

| ENAME |

+-------+

| Smith |

| Scott |

+-------+

3 rows in set (0.00 sec)

mysql> select \* from EMP where ENAME not like 's%';

+--------+--------+-----------+------+------------+------+------+---------+

| EMP\_ID | ENAME | JOB | MGR | HIREDATE | SAL | COMM | DEPT\_NO |

+--------+--------+-----------+------+------------+------+------+---------+

| 7499 | allen | saleman | 7698 | 1981-12-20 | 1600 | 300 | 30 |

| 7521 | ward | saleman | 7698 | 1981-02-22 | 1250 | 500 | 30 |

| 7566 | jones | manager | 7839 | 1981-04-02 | 2975 | NULL | 20 |

| 7654 | martin | saleman | 7698 | 1981-09-28 | 1250 | 1400 | 30 |

| 7698 | blake | manager | 7839 | 1981-05-01 | 2850 | NULL | 30 |

| 7782 | clark | manager | 7539 | 1981-06-09 | 2450 | NULL | 10 |

| 7839 | king | president | NULL | 1981-11-17 | 5000 | NULL | 10 |

| 7844 | turner | saleman | 7698 | 1981-09-08 | 1500 | NULL | 10 |

| 7876 | adams | clerk | 7876 | 1981-05-23 | 1100 | NULL | 10 |

| 7900 | james | clerk | 7698 | 1981-12-03 | 800 | NULL | 30 |

+--------+--------+-----------+------+------------+------+------+---------+

10 rows in set (0.00 sec)