SQL Exercise 1

1. Create the table SEMP with the following structure:-

EMPNO CHAR(4)

EMPNAME CHAR(20)

BASIC FLOAT

DEPTNO CHAR(2)

DEPTHEAD CHAR(4)

```
at line
mysql> select * from SEMP;
  EMPNO
                     BASIC
                              DEPTNO
                                        DEPTHEAD
  0001
          SUNIL
                      6000
                              10
                                        NULL
  0002
          HIREN
                      8000
                              20
                                        NULL
  0003
          ALI
                              10
                                        0001
                      4000
  0004
          GEORGE
                              NULL
                      6000
                                        0002
 rows in set (0.00 sec)
```

2. Create the table SDEPT with the following structure:-DEPTNO CHAR(2)

DEPTNAME CHAR(15)

- 3. Insert into the SDEPT table the following values:-
- 10, Development
- 20, Training

```
mysql> insert into SDEPT(DETPTNO,DEPTNAME) values
-> ('10','Development'),
-> ('20','Training');
Query OK, 2 rows affected (0.32 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

4. Insert into the SEMP table the following values:-0001, SUNIL, 6000, 10

0002, HIREN, 8000, 20

0003, ALI, 4000, 10, 0001

0004, GEORGE, 6000, 0002

Create S, P, J, SPJ tables as specified below and insert a few rows in each table:-SUPPLIER

(S#, Sname, Status, City) - S

```
mysql> select * from supplier;
                              City
         Sname
                     Status
        Supplier1
                         10 | New York
         Supplier2
                              London
  S2
                         20 I
         Supplier3
                         30 | Chicago
  S3
         Supplier4
                              Paris
  S4
                         15
         Supplier5
                         25
                              Athens
5 rows in set (0.00 sec)
```

PARTS

(P#, Pname, Color, Weight, City) - P

```
mysql> select * from parts;
                        | Weight | CITY
 P#
        PNAME
                COLOR
                Red
                            12.5
                                   London
 P1
        Part1
                                   Los Angeles
        Part2
                Blue
                              15
 P2
                Green
 Р3
        Part3
                              14
                                   Chicago
                                   Paris
  P4
        Part4
                Yellow
                              13
  P5
        Part5
                Black
                              18
                                   Athens
 rows in set (0.00 sec)
```

PROJECTS

(J#, Jname, City) - J



SUPPLIER-PARTS-PROJECT (S#, P#, J#, Qty) - SPJ

```
mysql> select * from SPJ;
  S#
          P#
                  J#
                          Qty
  S1
          P1
                  J1
                           100
  S2
          P2
                  J2
                           200
  S3
          Р3
                  J3
                           300
  S4
          P4
                  J4
                           150
  S5
          P5
                  J3
                           250
5 rows in set (0.00 sec)
mysql>
```

Sample data for S# column:- 'S1', 'S2', 'S3', etc. Sample data for P# column:- 'P1', 'P2', 'P3', etc. Sample data for J# column:- 'J1', 'J2', 'J3', etc. Sample data for Status column:- 10, 20, 30, etc. Write the SELECT queries to do the following:- 5. Display all the data from the S table.

```
mysql> select * from supplier;
                                City
 S#
         Sname
                      Status
         Supplier1
                                New York
 S1
                          10
         Supplier2
                                London
 S2
                          20
         Supplier3
                                Chicago
 S3
                          30
         Supplier4
 S4
                                Paris
                          15
         Supplier5
 S5
                          25
                                Athens
 rows in set (0.00 sec)
```

6. Display only the S# and SNAME fields from the S table.

7. Display the PNAME and COLOR from the P table for the CITY="London".

```
mysql> select pname,color from parts where city='london';
+----+
| pname | color |
+----+
| Part1 | Red |
+----+
1 row in set (0.02 sec)
mysql>
```

8. Display all the Suppliers from London.

9. Display all the Suppliers from Paris or Athens.

10. Display all the Projects in Athens.

```
mysql> select * from projects where city ='Athens';

+----+
| J# | JNAME | CITY |

+----+
| J3 | Project3 | Athens |

+----+
1 row in set (0.00 sec)

mysql> _
```

11. Display all the Partnames with the weight between 12 and 14 (inclusive of both).

```
mysql> select * from parts where weight between 12 and 14;
         PNAME
                          Weight
                COLOR
 P1
                 Red
                             12.5
                                    London
         Part1
 Р3
                               14
                                    Chicago
         Part3
                 Green
 Ρ4
                 Yellow
                               13
                                    Paris
         Part4
3 rows in set (0.00 sec)
mysql> _
```

12. Display all the Suppliers with a Status greater than or equal to 20.

```
mysql> select * from supplier where status>=20;
                               City
  S#
         Sname
                      Status
         Supplier2
                               London
 S2
                          20
         Supplier3
                               Chicago
 S3
                          30
         Supplier5
 S5
                          25
                               Athens
3 rows in set (0.00 sec)
mysql> _
```

13. Display all the Suppliers except the Suppliers from London.

```
mysql> select * from supplier where city!='london';
 S#
        Sname
                     Status | City
 S1
         Supplier1
                         10
                              New York
 S3
         Supplier3
                         30
                              Chicago
 S4
         Supplier4
                         15
                              Paris
 S5
         Supplier5
                         25
                              Athens
 rows in set (0.00 sec)
mysql>
```

14. Display only the Cities from where the Suppliers come from.

15. Assuming that the Part Weight is in GRAMS, display the same in MILLIGRAMS and KILOGRAMS.

```
weignt/เอออ as kilograms Trom parts at line
mysql> select weight as weightingrams,
    -> weight*1000 as milligrams,
    -> weight/1000 as kilograms from parts;
 weightingrams | milligrams | kilograms
           12.5
                       12500
                                  0.0125
             15
                       15000
                                   0.015
             14
                       14000
                                   0.014
             13
                       13000
                                   0.013
             18
                       18000
                                   0.018
5 rows in set (0.02 sec)
mysql> _
```