**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)

**Output**

mysql> create table SEMP(empno char(4), empname char(20), basic float(10), deptno char(2),depthead char(4));

Query OK, 0 rows affected (0.05 sec)

mysql> desc semp;

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

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

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

| empno | char(4) | YES | | NULL | |

| empname | char(20) | YES | | NULL | |

| basic | float | YES | | NULL | |

| deptno | char(2) | YES | | NULL | |

| depthead | char(4) | YES | | NULL | |

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

5 rows in set (0.01 sec)

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

DEPTNO CHAR(2)

DEPTNAME CHAR(15)

**Output**

mysql> create table SDEPT (deptno char(2), deptname char(15));

Query OK, 0 rows affected (0.02 sec)

mysql> desc sdept;

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

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

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

| deptno | char(2) | YES | | NULL | |

| deptname | char(15) | YES | | NULL | |

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

2 rows in set (0.00 sec)

1. Insert into the SDEPT table the following values:-

10, Development

20, Training

**Output**

mysql> insert into sdept values ('10','development');

Query OK, 1 row affected (0.04 sec)

mysql> insert into sdept values('20','training');

Query OK, 1 row affected (0.01 sec)

mysql> select \* from sdept;

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

| deptno | deptname |

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

| 10 | development |

| 20 | training |

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

2 rows in set (0.00 sec)

1. 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

**Output**

mysql> insert into semp(empno,empname,basic,deptno) values('0001','sunil',6000,'10');

Query OK, 1 row affected (0.01 sec)

mysql> insert into semp(empno,empname,basic,deptno) values('0002','hiren

',8000,'20');

Query OK, 1 row affected (0.01 sec)

mysql> insert into semp values('0003','Ali',4000,'10','0001');

Query OK, 1 row affected (0.01 sec)

mysql> insert into semp(empno,empname,basic,depthead) values('0004','george',6000,'0002');

Query OK, 1 row affected (0.01 sec)

mysql> select \* from semp;

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

| empno | empname | basic | deptno | depthead |

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

| 0001 | sunil | 6000 | 10 | NULL |

| 0002 | hiren | 8000 | 20 | NULL |

| 0003 | Ali | 4000 | 10 | 0001 |

| 0004 | george | 6000 | NULL | 0002 |

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

4 rows in set (0.00 sec)

1. Display all the data from the S table.

**Output**

mysql> select \* from supplier;

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

| sno | Sname | Status | city |

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

| s1 | Supplier1 | 10 | New York |

| s2 | Supplier2 | 20 | London |

| s3 | Supplier3 | 30 | Paris |

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

3 rows in set (0.00 sec)

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

**Output**

mysql> select sno, sname from supplier;

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

| sno | sname |

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

| s1 | Supplier1 |

| s2 | Supplier2 |

| s3 | Supplier3 |

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

3 rows in set (0.00 sec)

1. Display the PNAME and COLOR from the P table for the CITY=”London”.

**Output**

mysql> select pname,color

-> from parts

-> where city='london';

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

| pname | color |

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

| Part2 | Blue |

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

1. Display all the Suppliers from London

**Output**

mysql> select \* from supplier

-> where city ='london';

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

| sno | Sname | Status | city |

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

| s2 | Supplier2 | 20 | London |

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

1 row in set (0.00 sec)

1. Display all the Suppliers from Paris or Athens.

**Output**

mysql> select \* from supplier

-> where city ='Paris' or city='Athens';

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

| sno | Sname | Status | city |

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

| s3 | Supplier3 | 30 | Paris |

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

1 row in set (0.00 sec)

1. Display all the Projects in Athens.

**Output**

mysql> select \* from projects

-> where city = 'Athens';

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

| jno | Jname | city |

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

| J4 | Project4 | Athens |

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

1 row in set (0.00 sec)

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

**Output**

mysql> select pname

-> from parts

-> where weight between 12 and 14;

+-------+

| pname |

+-------+

| Part1 |

+-------+

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

**Output**

mysql> select \* from supplier

-> where status >= 20;

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

| sno | Sname | Status | city |

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

| s2 | Supplier2 | 20 | London |

| s3 | Supplier3 | 30 | Paris |

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

2 rows in set (0.00 sec)

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

**Output**

mysql> select \* from supplier

-> where city <> 'london';

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

| sno | Sname | Status | city |

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

| s1 | Supplier1 | 10 | New York |

| s3 | Supplier3 | 30 | Paris |

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

2 rows in set (0.00 sec)

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

**Output**

mysql> select distinct city

-> from supplier;

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

| city |

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

| New York |

| London |

| Paris |

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

3 rows in set (0.01 sec)

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

**Output**

mysql> select pname,

-> weight as weight\_in\_Grams,

-> weight \* 1000 as weight\_in\_milligrams,

-> weight / 1000 as weight\_in\_kilograms

-> from parts;

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

| pname | weight\_in\_Grams | weight\_in\_milligrams | weight\_in\_kilograms |

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

| Part1 | 12.50 | 12500.00 | 0.012500 |

| Part2 | 8.70 | 8700.00 | 0.008700 |

| Part3 | 15.30 | 15300.00 | 0.015300 |

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

3 rows in set (0.00 sec)