

SQL EXERCISE 1

```

Create table SEMP(EMPNO CHAR(4),EMPNAME CHAR(20),BASIC FLOAT,DEPTNO CHAR(2),DEPTHEAD CHAR(4));
insert into SEMP values('0001','SUNIL',6000,'10',null);
insert into SEMP values('0002','HIREN',8000,'20',null);
insert into SEMP values('0003','ALI',4000,10,'0001');
insert into SEMP values('0004','GEORGE',6000,null,'0002');

```

```

Create table SDEPT(DEPTNO CHAR(2),DEPTNAME CHAR(15));
insert into SDEPT values(10,'Development');
insert into SDEPT values(20,'Training');

```

```

create table S(`S#` varchar(10),SNAME varchar(10),STATUS int,CITY varchar(10));
mysql>insert into S values('s1','Smith',20,'London'),
('s2','Jones',10,'Paris'),
('s3','Blake',30,'Paris'),
('s4','Clark',20,'London'),
('s5','Adams',30,'Athens');

```

```

create table P(`P#` varchar(10),PNAME varchar(10),COLOR varchar(10),WEIGHT int,CITY
varchar(10));
insert into P values('p1','nut','red',12,'London'),
('p2','bolt','green',17,'Paris'),
('p3','screw','blue',17,'Rome'),
('p4','stapler','red',14,'London'),
('p5','cam','blue',12,'Paris'),
('p6','cog','red',19,'London');

```

```

create table J(`J#` varchar(10),JNAME varchar(10),CITY varchar(10));

```

```

insert into J values('j1','sorter','Paris'),
('j2','punch','Rome'),
('j3','reader','Athens'),
('j4','console','Athens'),
('j5','collator','London'),
('j6','terminal','Oslo'),
('j7','tape','London');

```

```

create table SPJ(`S#` varchar(10),`P#` varchar(10),`J#` varchar(10),QTY int);
insert into SPJ values('s1','p1','j1',200),
('s1','p1','j4',700),
('s2','p3','j1',400),
('s2','p3','j2',200),
('s2','p3','j3',200),
('s2','p3','j4',500),
('s2','p3','j5',600),
('s2','p3','j6',400),
('s2','p3','j7',800),
('s2','p5','j2',100),
('s3','p3','j1',200),
('s3','p4','j2',500),
('s4','p6','j3',300);

```

```

select* from SPJ;

```

5. Display all the data from the S table.

```

mysql> select * from s;

```

S#	SNAME	STATUS	CITY
s1	Smith	20	London
s2	Jones	10	Paris
s3	Blake	30	Paris
s4	Clark	20	London
s5	Adams	30	Athens

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

```
mysql> select 'S#',sname from s;
```

S#	sname
S#	Smith
S#	Jones
S#	Blake
S#	Clark
S#	Adams

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

```
mysql> select PNAME, COLOR from P where CITY = 'London';
```

PNAME	COLOR
nut	red
stapler	red
cog	red

8. Display **all** the Suppliers **from** London.

```
mysql> select * from s where city='London';
```

S#	SNAME	STATUS	CITY
s1	Smith	20	London
s4	Clark	20	London

9. Display **all** the Suppliers **from** Paris **or** Athens.

```
mysql> select * from S where CITY = 'Paris' or CITY = 'Athens';
```

S#	SNAME	STATUS	CITY
s2	Jones	10	Paris
s3	Blake	30	Paris
s5	Adams	30	Athens

10. Display **all** the Projects **in** Athens.

```
mysql> select* from J where CITY = 'Athens';
```

J#	JNAME	CITY
j3	reader	Athens
j4	console	Athens

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

```
mysql> select PNAME from P where WEIGHT between 12 and 14;
```

PNAME
nut
stapler
cam

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

```
mysql> select* from S where STATUS >= 20;
```

S#	SNAME	STATUS	CITY
s1	Smith	20	London
s3	Blake	30	Paris
s4	Clark	20	London
s5	Adams	30	Athens

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

```
mysql> select* from S where CITY !='London';
```

S#	SNAME	STATUS	CITY
s2	Jones	10	Paris
s3	Blake	30	Paris
s5	Adams	30	Athens

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

```
mysql> select CITY from S;
```

CITY
London
Paris
Paris
London
Athens

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

```
mysql> select WEIGHT"WEIGHT in GRAM", WEIGHT*0.001 "WEIGHT in KILOGRAMS", WEIGHT*1000"WEIGHT in MILLIGRAMS" from P;
```

WEIGHT in GRAM	WEIGHT in KILOGRAMS	WEIGHT in MILLIGRAMS
12	0.012	12000
17	0.017	17000
17	0.017	17000
14	0.014	14000
12	0.012	12000
19	0.019	19000