**Create the table SEMP with the following structure**

**EMPNO CHAR(4)**

**EMPNAME CHAR(20)**

**BASIC FLOAT**

**DEPTNO CHAR(2)**

**DEPTHEAD CHAR(4)**

CREATE TABLE SEMP ( EMPNO CHAR(4) , EMPNAME CHAR(20) , BASIC FLOAT(6,2) , DEPTNO CHAR(2) , DEPTHEAD CHAR(4) );

**Create the table SDEPT with the following structure**

**DEPTNO CHAR(2)**

**DEPTNAME CHAR(15)**

CREATE TABLE SDEPT (DEPTNO CHAR(2) , DEPTNAME CHAR(15) );

**Insert into the SDEPT table the following values:-**

**10, Development**

**20, Training**

INSERT INTO SDEPT (DEPTNO , DEPTNAME) VALUES (‘10’ , ‘DEVELOPMENT’),(‘20’,’TRAINING’);

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

|  |  |  |
| --- | --- | --- |
| **SUPPLIER**  **(S#, Sname, Status, City)** | **-** | **S** |
| **PARTS**  **(P#, Pname, Color, Weight, City)** | **-** | **P** |
| **PROJECTS**  **(J#, Jname, City)** | **-** | **J** |
| **SUPPLIER-PARTS-PROJECT**  **(S#, P#, J#, Qty)** | **-** | **SPJ** |

**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:-**

CREATE TABLE S (SID INT(3) , SNAME CHAR(10) , STATUS INT , CITY CHAR(10) );

CREATE TABLEE P (PID INT(3) , PNAME CHAR(10) , COLOR CHAR(10) , WEIGHT FLOAT(7,3) , CITY CHAR(10));

CREATE TABLE J (J INT , JNAME CHAR(10) , CITY CHAR(10));

ALTER TABLE S ADD PRIMARY KEY(Sid);

ALTER TABLE P ADD PRIMARY KEY(PID);

ALTER TABLE J ADD PRIMARY KEY(J);

create table spj (

-> Sid int(2),

-> Pid int (2),

-> J int(2),

-> Qty int,

-> PRIMARY KEY(Sid , Pid, J),

-> FOREIGN KEY(Sid) REFERENCES S(Sid),

-> FOREIGN KEY(Pid) REFERENCES P(Pid),

-> FOREIGN KEY(J) REFERENCES J(J) );

**Display all the data from the S table.**

mysql> select \* from S;

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

| Sid | Sname | Status | City |

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

| 1 | Manoj | 10 | Jalgaon |

| 2 | fiza | 20 | Yavatmal |

| 3 | Arzoo | 40 | Pune |

| 4 | fiza | 30 | Yavatmal |

| 5 | Sera | 50 | Mumbai |

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

5 rows in set (0.00 sec)

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

mysql> select sid , sname from s;

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

| sid | sname |

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

| 1 | Manoj |

| 2 | fiza |

| 3 | Arzoo |

| 4 | fiza |

| 5 | Sera |

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

5 rows in set (0.00 sec)

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

mysql> select pname,color from p where city = 'London';

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

| pname | color |

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

| Rice Bag | black |

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

1 row in set (0.00 sec)

**Display all the Suppliers from London.**

mysql> select \* from s where city = 'yavatmal';

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

| Sid | Sname | Status | City |

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

| 2 | fiza | 20 | Yavatmal |

| 4 | Ridaa | 30 | Yavatmal |

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

rows in set (0.00 sec)

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

mysql> select \* from s where city = 'pune' or city ='yavatmal';

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

| Sid | Sname | Status | City |

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

| 2 | fiza | 20 | Yavatmal |

| 3 | Arzoo | 40 | Pune |

| 4 | Ridaa | 30 | Yavatmal |

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

3 rows in set (0.00 sec)

**Display all the Projects in Athens.**

mysql> select \* from p where city='London';

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

| Pid | Pname | Color | Weight | City |

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

| 11 | Rice Bag | black | 50.60 | London |

| 15 | Sugar | white | 15.50 | London |

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

1. rows in set (0.00 sec)

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

mysql> select Pname from p where weight>=1 and weight<=26;

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

| Pname |

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

| Wheat Bag |

| Sunflower Oil |

| Dry fruits |

| Sugar |

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

4 rows in set (0.32 sec)

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

mysql> select Sname from s where status>=20;

+-------+

| Sname |

+-------+

| fiza |

| Arzoo |

| Ridaa |

| Sera |

+-------+

rows in set (0.00 sec)

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

mysql> select Sname from s where city !='Yavatmal';

+-------+

| Sname |

+-------+

| Manoj |

| Arzoo |

| Sera |

+-------+

rows in set (0.00 sec)

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

mysql> select city from s;

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

| city |

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

| Jalgaon |

| Yavatmal |

| Pune |

| Yavatmal |

| Mumbai |

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

5 rows in set (0.00 sec)

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

select weight , weight/1000 as "KiloGrams" , weight\*1000 as "Milligrams" from p;

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

| weight | KiloGrams | Milligrams |

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

| 50.60 | 0.050600 | 50600.00 |

| 25.47 | 0.025470 | 25470.00 |

| 25.47 | 0.025470 | 25470.00 |

| 1.25 | 0.001250 | 1250.00 |

| 15.50 | 0.015500 | 15500.00 |

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

5 rows in set (0.00 sec)