

Creating Employee Table

```
CREATE TABLE Employee
(
    EmployeeId INT PRIMARY KEY,
    EmpName VARCHAR(20),
    Phone NUMERIC(10),
    Email VARCHAR(30)
)
```

Creating Manufacturer Table

```
CREATE TABLE Manufacturer
(
    MfName VARCHAR(20) PRIMARY KEY,
    City VARCHAR(20),
    [State] VARCHAR(20),
)
```

Creating Computer Table

```
CREATE TABLE Computer
(
    SerialNumber INT PRIMARY KEY IDENTITY,

    MfName VARCHAR(20)
        CONSTRAINT fk_manufacturer
        FOREIGN KEY(MfName)
        REFERENCES Manufacturer(MfName),

    Model VARCHAR(10),
    [Weight] NUMERIC(4,2),

    EmployeeId INT
        CONSTRAINT fk_employee
        FOREIGN KEY(EmployeeId)
```

```
REFERENCES Employee(EmployeeId),
```

```
)
```

Inserting Data Into Employee

```
INSERT INTO Employee
VALUES (1001, 'Sharon', 9090909090, 'sharon@gmail.com'),
      (1002, 'Ares', 6745239812, 'ares@gmail.com'),
      (1003, 'Koby', 8939438439, 'koby@gmail.com'),
      (1004, 'Sophiya', 9896530912, 'sophie@gmail.com'),
      (1005, 'Gibbs', 9073768956, 'gibbs@gmail.com'),
      (1006, 'Simon', 7833037487, 'simon.m@gmail.com'),
      (1007, 'Ricky', 9898343123, 'rick.astley@gmail.com')

SELECT * FROM Employee;
```

--Output 1

	EmployeeId	EmpName	Phone	Email
1	1001	Sharon	9090909090	sharon@gmail.com
2	1002	Ares	2945454529	ares@gmail.com
3	1003	Koby	8939438439	koby@gmail.com
4	1004	Sophiya	9896530912	sophie@gmail.com
5	1005	Gibbs	2345127809	gibbs@gmail.com
6	1006	Simon	7833037487	simon.m@gmail.com
7	1007	Ricky	9898343123	rick.astley@gmail.com

Inserting Data Into Manufacturer

```
INSERT INTO Manufacturer
VALUES ('Lenovo', 'Charity', 'South Dakota'),
      ('IBM', 'Seattle', 'Washington'),
      ('Acer', 'Pierre', 'South Dakota'),
```

```
('Apple','Buffalo','New York'),  
('Dell','Dallas','Texas')
```

```
SELECT * FROM Manufacturer;
```

--Output 2

	MfName	City	State
1	Acer	Pierre	South Dakota
2	Apple	Buffalo	New York
3	Dell	Dallas	Texas
4	IBM	Seattle	Washington
5	Lenovo	Charity	South Dakota

Inserting Data Into Computer

```
INSERT INTO Computer  
VALUES ('Lenovo','LP001',3.5,1007),  
       ('IBM','IB007',4.2,1002),  
       ('Acer','AC88',3.7,1006),  
       ('Lenovo','LP004',4.6,1004),  
       ('Apple','M15',3.2,1002),  
       ('Dell','D12',4.3,1003),  
       ('Apple','M14',3.0,1005),  
       ('Dell','D89',5,1001)
```

```
SELECT * FROM Computer;
```

--Output 3

	SerialNumber	MfName	Model	Weight	EmployeeId
1	1	Lenovo	LP001	3.50	1007
2	2	IBM	IB007	4.20	1002
3	3	Acer	AC88	3.70	1006
4	4	Lenovo	LP004	4.60	1004
5	5	Apple	M15	3.20	1002
6	7	Apple	M14	3.00	1005

```
--1. List the manufacturers' names that are located in South Dakota.
```

```
SELECT MfName FROM Manufacturer
      WHERE [State] = 'South Dakota';
```

--Output 4

	MfName
1	Acer
2	Lenovo

```
-- 2. Calculate the average weight of the computers in use.
```

```
SELECT ROUND(AVG(Weight),2) AS [Average Weight(KG)] FROM Computer;
```

--Output 5

RESULTS	
	Average Weigh...
1	3.700000

```
-- 3. List the employee names for employees whose phoneno starts with 2.
```

```
SELECT EmpName FROM Employee  
WHERE Phone LIKE '2%'
```

--Output 6

	EmpName
1	Ares
2	Gibbs

```
-- 4. List the serial numbers for computers that have a weight below  
average.
```

```
SELECT SerialNumber FROM Computer  
WHERE [Weight] < (SELECT AVG(Weight) FROM Computer)
```

--Output 7

	SerialNumber
1	1
2	5
3	7

```
-- 5. List the manufacturer names of companies that do not have any  
computers in use. Use a subquery.
```

```
SELECT MfName FROM Manufacturer  
       WHERE MfName NOT IN (SELECT DISTINCT MfName FROM Computer)
```

--Output 8

	MfName
1	Dell

```
-- 6. List the employee name, their computer serial number, and the city  
that they were manufactured in. Use a join.
```

```
SELECT EmpName, SerialNumber, City FROM  
       Computer C  
       JOIN Manufacturer M  
         ON C.MfName = M.MfName  
       JOIN Employee E  
         ON C.EmployeeId = E.EmployeeId
```

--Output 9

	EmpName	SerialNumber	City
1	Ricky	1	Charity
2	Ares	2	Seattle
3	Simon	3	Pierre
4	Sophiya	4	Charity
5	Ares	5	Buffalo
6	Gibbs	7	Buffalo

-- 7. Write a Procedure that takes EmployeeId and List the serial number, manufacturer name, model, and weight of computer that belong to the specified employeeid.

```
CREATE PROCEDURE spGetComputerDetailOfEmployee
@EmployeeId INT
AS
BEGIN
    SELECT SerialNumber, C.MfName, Model, [Weight] FROM
        Computer C
        JOIN Manufacturer M
            ON C.MfName = M.MfName
        WHERE C.EmployeeId = @EmployeeId
END
```

```
-- Running The Stored Procedure
spGetComputerDetailOfEmployee 1002
```

--Output 10

	SerialNumber	MfName	Model	Weight
1	2	IBM	IB007	4.20
2	5	Apple	M15	3.20
