#### 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

#### --Output 1

	Employeeld	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

	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

	Serial Number	MfName	Model	Weight	Employeeld
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';
```

	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;
```



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

SELECT EmpName FROM Employee

WHERE Phone LIKE '2%'
```

		EmpName	
1		Ares	
2	'	Gibbs	

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

SELECT SerialNumber FROM Computer

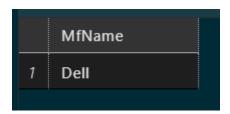
WHERE [Weight] < (SELECT AVG(Weight) FROM Computer)
```

	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)
```



```
-- 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
```

	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
```

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