

**SQL FINAL MACHINE TEST****-Niyasudheen KK - NIS1006**

```
CREATE DATABASE SqlFinalTest
```

```
USE SqlFinalTest
```

```
CREATE TABLE Employee
```

```
(  
    EmployeeID INT PRIMARY KEY,  
    EmpName VARCHAR(20),  
    Phone NUMERIC(10),  
    Email VARCHAR(30)  
)
```

```
INSERT INTO Employee VALUES (1, 'Niyas', 2987650, 'niyas@gmail.com'),  
                              (2, 'safdar', 987654, 'safdar@gmail.com'),  
                              (3, 'Bargav', 2473864, 'bargav@gmail.com'),  
                              (4, 'ahmer', 43795658, 'ahmer@gmail.com')
```

Results		Messages		
	EmployeeID	EmpName	Phone	Email
1	1	Niyas	2987650	niyas@gmail.com
2	2	safdar	987654	safdar@gmail.com
3	3	Bargav	2473864	bargav@gmail.com
4	4	ahmer	43795658	ahmer@gmail.com

```
CREATE TABLE Manufacturer
```

```
(  
    MfName VARCHAR(30) PRIMARY KEY,  
    City VARCHAR(30),  
    State VARCHAR(30)  
)
```

```
INSERT INTO Manufacturer VALUES ('Lenovo', 'Charity', 'South Dakota'),  
                                  ('IBM', 'Seattle', 'Washington'),  
                                  ('Acer', 'pierre', 'South Dakota'),  
                                  ('Apple', 'Buffalo', 'New York'),  
                                  ('Dell', 'Dallas', 'Texas')
```

	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

```
CREATE TABLE Computer
(
    SerialNumber INT PRIMARY KEY,
    MfName VARCHAR(30) CONSTRAINT fk_mfname FOREIGN KEY (MfName) REFERENCES
    Manufacturer(MfName) ON DELETE CASCADE,
    Model VARCHAR(30),
    Weight DECIMAL(8,2),
    EmployeeID INT CONSTRAINT fk_empid FOREIGN KEY (EmployeeID) REFERENCES
    Employee(EmployeeID) ON DELETE CASCADE
)
```

```
INSERT INTO Computer VALUES (1, 'Lenovo', 'L100', 2, 1),
                             (2, 'Apple', 'A200', 1, 1),
                             (3, 'Apple', 'A200', 1, 3),
                             (4, 'Dell', 'D50', 3, 2)
```

	SerialNumber	MfName	Model	Weight	EmployeeID
1	1	Lenovo	L100	2.00	1
2	2	Apple	A200	1.00	1
3	3	Apple	A200	1.00	3
4	4	Dell	D50	3.00	2

```
-----
SELECT * FROM Employee
SELECT * FROM Manufacturer
SELECT * FROM Computer
```

-----Q1

```
SELECT MfName AS ManufacturerName FROM Manufacturer WHERE State LIKE 'South Dakota'
```

	ManufacturerName
1	Acer
2	Lenovo

-----Q2

```
SELECT AVG(Weight) AS AverageWeight FROM Computer
```

Results Messages	
	AverageWeight
1	1.750000

-----Q3

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

Results Messages	
	EmployeeName
1	Niyas
2	Bargav

-----Q4

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

Results Messages	
	SerialNumber
1	2
2	3

-----Q5

```
SELECT Mfname AS ManufacturerName
FROM Manufacturer
WHERE MfName NOT IN (SELECT MfName FROM Computer)
```

Results Messages	
	ManufacturerName
1	Acer
2	IBM

-----Q6

```
SELECT e.EmpName,c.SerialNumber,m.City
FROM Employee e
JOIN Computer c
ON e.EmployeeID=c.EmployeeID
JOIN Manufacturer m
ON m.MfName=c.MfName
```

Results		Messages	
	EmpName	SerialNumber	City
1	Niyas	1	Charity
2	Niyas	2	Buffalo
3	Bargav	3	Buffalo
4	safdar	4	Dallas

-----Q7

```
CREATE PROCEDURE pEmployeeID
@EmployeeID INT
```

```
AS
```

```
BEGIN
```

```
    SELECT SerialNumber,MfName AS Manufacturername,Model,Weight FROM Computer WHERE
EmployeeID=@EmployeeID
END
```

```
EXEC pEmployeeID 2
```

Results		Messages		
	SerialNumber	Manufacturername	Model	Weight
1	4	Dell	D50	3.00