**FIRST FOUNDATION MACHINE TEST - SET 2**

CREATE TABLE Manufacturer (

MfName VARCHAR(50) PRIMARY KEY,

city VARCHAR(50),

state VARCHAR(50)

);

INSERT INTO Manufacturer (MfName, city, state)

VALUES

('Manufacturer1', 'south dakota', 'africa'),

('Manufacturer2', 'palakkad', 'india'),

('Manufacturer3', 'kolkata', 'kolkata');

CREATE TABLE Computer (

SerialNumber INT PRIMARY KEY,

Model VARCHAR(50),

weight DECIMAL(10, 2),

EmployeeId INT,

MfName VARCHAR(50),

FOREIGN KEY (EmployeeId) REFERENCES Employee(EmployeeId),

FOREIGN KEY (MfName) REFERENCES Manufacturer(MfName)

);

INSERT INTO Computer (SerialNumber, Model, weight, EmployeeId, MfName)

VALUES

(101, 'ComputerModel1', 10.5, 1, 'Manufacturer1'),

(102, 'ComputerModel2', 8.2, 2, 'Manufacturer2'),

(103, 'ComputerModel3', 12.7, 3, 'Manufacturer1');

CREATE TABLE Employee (

EmployeeId INT PRIMARY KEY,

EmployeeName VARCHAR(100),

area\_code VARCHAR(10),

phone VARCHAR(20),

email VARCHAR(100)

);

INSERT INTO Employee (EmployeeId, EmployeeName, area\_code, phone, email)

VALUES

(1, 'John Doe', '202', '9987675423', 'john@gmail.com'),

(2, 'Jane Smith', '212', '9876456342', 'jane@gmail.com'),

(3, 'Michael Johnson', '415', '7864536789', 'michael@gmail.com');

select \* from Manufacturer

select \* from Computer

select \* FROM Employee

-- Q 1

SELECT MfName

FROM Manufacturer

WHERE city = 'South Dakota';

-- Q 2

SELECT AVG(Weight)AS 'average weight' FROM COMPUTER;

-- Q 3

SELECT EmployeeName FROM EMPLOYEE WHERE Area\_Code LIKE '2%'

-- Q 4

SELECT SerialNumber

FROM Computer

WHERE weight < (SELECT AVG(weight) FROM Computer);

-- Q 5

SELECT MfName FROM MANUFACTURER WHERE MfName NOT IN (SELECT MfName FROM COMPUTER)

-- Q 6

SELECT E.EmployeeName, C.SerialNumber, M.City FROM EMPLOYEE E

JOIN COMPUTER C ON E.EmployeeID = C.EmployeeID

JOIN MANUFACTURER M ON C.MfName = M.MfName

-- Q 7

create procedure getcomputer

@EmployeeId int

as

begin

select Computer.SerialNumber, Manufacturer.mfname, Model, weight

from computer

join employee on Computer.EmployeeId = Employee.EmployeeId

join manufacturer on Computer.MfName = Manufacturer.MfName

WHERE Employee.EmployeeId =@EmployeeId;

END;

exec getcomputer @employeeid=2