```
--GURUNATH DESHUMUKH
-creating tables
CREATE TABLE Manufacturers (
 Code INTEGER,
 Name VARCHAR(255) NOT NULL,
 PRIMARY KEY (Code)
);
CREATE TABLE Products (
 Code INTEGER,
 Name VARCHAR(255) NOT NULL,
 Price DECIMAL NOT NULL,
 Manufacturer INTEGER NOT NULL,
 PRIMARY KEY (Code),
 FOREIGN KEY (Manufacturer) REFERENCES Manufacturers(Code)
);
—inserting values
INSERT INTO Manufacturers(Code, Name) VALUES(1, 'Sony');
INSERT INTO Manufacturers(Code, Name) VALUES(2, 'Creative Labs');
INSERT INTO Manufacturers(Code, Name) VALUES(3, 'Hewlett-Packard');
INSERT INTO Manufacturers(Code, Name) VALUES(4, 'lomega');
INSERT INTO Manufacturers(Code, Name) VALUES(5, 'Fujitsu');
INSERT INTO Manufacturers(Code, Name) VALUES(6, 'Winchester');
INSERT INTO Products(Code, Name, Price, Manufacturer) VALUES(1, 'Hard drive', 240,5);
INSERT INTO Products(Code, Name, Price, Manufacturer) VALUES(2, 'Memory', 120,6);
INSERT INTO Products(Code, Name, Price, Manufacturer) VALUES(3, 'ZIP drive', 150,4);
INSERT INTO Products(Code, Name, Price, Manufacturer) VALUES(4, 'Floppy disk', 5,6);
INSERT INTO Products(Code, Name, Price, Manufacturer) VALUES(5, 'Monitor', 240, 1);
INSERT INTO Products(Code, Name, Price, Manufacturer) VALUES(6, 'DVD drive', 180,2);
INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(7,'CD drive',90,2);
INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(8,'Printer',270,3);
INSERT INTO Products(Code, Name, Price, Manufacturer) VALUES(9, 'Toner cartridge', 66, 3);
INSERT INTO Products(Code, Name, Price, Manufacturer) VALUES(10, 'DVD burner', 180,2);
--1.1
SELECT name from products;
--1.2
SELECT name, price FROM products;
--1.3
SELECT name FROM products WHERE price<200;
```

```
--1.4
SELECT name FROM products WHERE price BETWEEN 60 AND 120;
--1.5
SELECT name, price*100 AS "Price in Cents" FROM products;
--1.6
SELECT AVG(price) FROM products;
--1.7
SELECT AVG(price) FROM products WHERE manufacturer = 2;
--1.8
SELECT COUNT(*) FROM products;
--1.9
SELECT Code, Name, Price, Manufacturer FROM products WHERE price>=180 ORDER BY
price DESC, name;
--1.10
SELECT p.name,p.price,m.code,m.name FROM products p LEFT OUTER JOIN
manufacturers m ON (p.manufacturer = m.code);
--1.11
SELECT p.name,p.price,m.name FROM products p LEFT OUTER JOIN manufacturers m
ON (p.manufacturer = m.code);
--1.12
SELECT Manufacturers.code,temp.pri FROM Manufacturers LEFT JOIN (
SELECT Manufacturer, AVG(price) as pri
FROM products GROUP BY Manufacturer ) temp ON
Manufacturers.code=temp.Manufacturer;
--1.13
select manufacturers.name from manufacturers
inner join
SELECT manufacturer,
AVG(PRICE) FROM PRODUCTS
GROUP BY MANUFACTURER) temp
manufacturers.code = temp.manufacturer;
--1.14
select manufacturers.name from manufacturers
inner join
(
SELECT manufacturer,
```

```
AVG(PRICE) FROM PRODUCTS
GROUP BY MANUFACTURER
HAVING AVG(PRICE)>=150)temp
on
manufacturers.code = temp.manufacturer;
--1.15
SELECT MIN(price) FROM products;
--1.16
SELECT MANUFACTURERS.NAME, TEMP.PRICE1
FROM manufacturers
LEFT JOIN
SELECT MANUFACTURER, MAX(PRICE) AS PRICE1
FROM PRODUCTS GROUP BY MANUFACTURER
ON MANUFACTURERS.CODE= TEMP.manufacturer;
INSERT INTO Products(Code, Name, Price, Manufacturer) VALUES(11, 'Loudspeakers', 70,2);
--1.18
UPDATE products SET name='Laser Printer' WHERE code=8;
--1.19
SELECT code,name,price*0.9,manufacturer FROM products;
--1.20
```

SELECT code,name,price*0.9,manufacturer FROM products WHERE price>=120;