**Name : vaibhav ingle**

ASSINGNMENT 2:

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)

) ;

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,'Iomega');

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);

--Q1

SELECT NAME FROM PRODUCTS;

--Q2

SELECT NAME, PRICE FROM PRODUCTS;

--Q3

SELECT NAME FROM PRODUCTS

WHERE PRICE<=200;

--Q4

SELECT \* FROM PRODUCTS

WHERE PRICE BETWEEN 60 AND 120;

--Q5

SELECT NAME, PRICE\*100 FROM PRODUCTS;

--Q6

SELECT AVG(PRICE) FROM PRODUCTS;

--Q7

SELECT AVG(PRICE) FROM PRODUCTS

WHERE MANUFACTURER=2;

--Q8

SELECT COUNT(\*) FROM PRODUCTS

WHERE PRICE>=180;

--Q9

SELECT NAME ,PRICE FROM PRODUCTS

WHERE PRICE>=180

ORDER BY PRICE DESC,NAME;

--Q10

SELECT \* FROM PRODUCTS P FULL OUTER JOIN MANUFACTURERS M ON P.MANUFACTURER =M.CODE;

--Q11

SELECT P.NAME ,P.PRICE ,M.NAME FROM PRODUCTS P LEFT JOIN MANUFACTURERS M ON P.MANUFACTURER=M.CODE;

---Q12

SELECT M.CODE ,prices FROM MANUFACTURERS M LEFT JOIN

(SELECT MANUFACTURER ,AVG(PRICE) PRICES FROM PRODUCTS P

GROUP BY MANUFACTURER

) temp ON temp.manufacturer = m.CODE

order by m.code;

--q13

SELECT M.name ,prices FROM MANUFACTURERS M LEFT JOIN

(SELECT MANUFACTURER ,AVG(PRICE) PRICES FROM PRODUCTS P

GROUP BY MANUFACTURER

) temp ON temp.manufacturer = m.CODE;

--Q14

SELECT M.NAME FROM MANUFACTURERS M inner JOIN

(SELECT MANUFACTURER ,AVG(PRICE) B FROM PRODUCTS P

GROUP BY MANUFACTURER

HAVING AVG(PRICE)>=150

) temp ON M.CODE= temp.manufacturer;

--Q15

SELECT NAME ,PRICE FROM PRODUCTS

WHERE PRICE =(SELECT MIN(PRICE) FROM PRODUCTS);

--Q16

select m.name ,temp.n, temp.o from manufacturers m left join

(select z.manufacturer mu, y.names n, z.prices o from

(select p.manufacturer, max(price) prices from products p group by manufacturer) z

left join

(select distinct manufacturer, name names ,price from products

order by price) y

on z.manufacturer=y.manufacturer

where z.prices=y.price and z.manufacturer=y.manufacturer

) temp

on m.code= temp.mu

;

--Q17

INSERT INTO Products(Code,Name,Price,Manufacturer) VALUES(11,'Loudspeakers',70,2);

--q18

update products set name ='Laser Printer'

where code =8;

--q19

select name, price\*0.9 discounted\_price from products;

--q20

select name, price\*0.9 discounted\_price from products

where price >=120;