**Assignment #3 SQL**

DROP TABLE Uses\_T CASCADE CONSTRAINTS ;

DROP TABLE WorksIn\_T CASCADE CONSTRAINTS ;

DROP TABLE WorkCenter\_T CASCADE CONSTRAINTS ;

DROP TABLE DoesBusinessIn\_T CASCADE CONSTRAINTS ;

DROP TABLE EmployeeSkills\_T CASCADE CONSTRAINTS ;

DROP TABLE Supplies\_T CASCADE CONSTRAINTS ;

DROP TABLE ProducedIn\_T CASCADE CONSTRAINTS ;

DROP TABLE OrderLine\_T CASCADE CONSTRAINTS ;

DROP TABLE Product\_T CASCADE CONSTRAINTS ;

DROP TABLE ProductLine\_T CASCADE CONSTRAINTS ;

DROP TABLE Order\_T CASCADE CONSTRAINTS ;

DROP TABLE Salesperson\_T CASCADE CONSTRAINTS ;

DROP TABLE Vendor\_T CASCADE CONSTRAINTS ;

DROP TABLE Skill\_T CASCADE CONSTRAINTS ;

DROP TABLE RawMaterial\_T CASCADE CONSTRAINTS ;

DROP TABLE Territory\_T CASCADE CONSTRAINTS ;

DROP TABLE Employee\_T CASCADE CONSTRAINTS ;

DROP TABLE Customer\_T CASCADE CONSTRAINTS ;

-- Create the table Vendor\_T

-- table must be created before because later we have to reference the F key

-- cannot reference a key that doesn't exist

CREATE TABLE Vendor\_T

(v\_code INTEGER NOT NULL,

v\_contact VARCHAR2(255) ,

V\_areacode VARCHAR2(255) ,

V\_phonenumber VARCHAR2(255) ,

V\_state VARCHAR2(20) ,

CONSTRAINT Vendor\_PK PRIMARY KEY (V\_code) );

-- iNSERT Data, total of 5 rows

INSERT INTO Vendor\_T VALUES(

21222, 'Smith','972','666-8888','TX');

INSERT INTO Vendor\_T VALUES(

21232, 'Ferguson', '817','222-7777','TX');

INSERT INTO Vendor\_T VALUES(

22000, 'Sterling', '304','888-9999','FL');

INSERT INTO Vendor\_T VALUES(

23002, 'Thomas','302', '111-2222', 'TX');

INSERT INTO Vendor\_T VALUES(

25489,'Joyce' , '212', '333-4444', 'FL');

-- create table product\_T

-- reference the f key v\_code from vendor\_T

CREATE TABLE Product\_T

(P\_code VARCHAR2(4) NOT NULL,

P\_onhand NUMBER(5,0) ,

P\_min NUMBER(5,0) ,

P\_price NUMBER(6,1) ,

P\_discount NUMBER(4,3) ,

V\_code INTEGER ,

CONSTRAINT Product\_PK PRIMARY KEY (P\_code) ,

CONSTRAINT Product\_FK1 FOREIGN KEY (V\_code) REFERENCES Vendor\_T(V\_code) ) ;

-- insert the data , total of 11 rows

INSERT INTO Product\_T VALUES(

'A102',23,10,100.5,0.05,21222);

INSERT INTO Product\_T VALUES(

'A104',8,10,53.75,0.1,21232);

INSERT INTO Product\_T VALUES(

'A250', 40, 5, 75.5, 0.05,25489);

INSERT INTO Product\_T (p\_code,p\_onhand,p\_min,p\_price,p\_discount) VALUES(

'B349', 80, 20, 34, 0);

INSERT INTO Product\_T (p\_code,p\_onhand,p\_min,p\_price,p\_discount) VALUES(

'B401', 53, 5, 25, 0);

INSERT INTO Product\_T VALUES(

'B567', 8, 10, 15, 0.1,25489);

INSERT INTO Product\_T VALUES(

'B709', 6, 10, 65, 0.07, 21222);

INSERT INTO Product\_T VALUES(

'C444', 84, 15, 8, 0.1, 21222);

INSERT INTO Product\_T VALUES(

'C458', 28, 10, 20, 0.05, 21232);

INSERT INTO Product\_T VALUES(

'D476', 65, 10, 27.5, 0.15, 21232);

INSERT INTO Product\_T VALUES(

'D897', 45,5 ,89.5, 0.12,25489);

INSERT INTO Product\_T VALUES(

'D900', 38, 10, 8, 0.08, 21222);

COMMIT;

--QUESTION1—

SELECT P\_CODE,V\_CODE

FROM Product\_T

WHERE (p\_onhand < p\_min)

OR (p\_price < 75 AND P\_discount>0.05) ;

--QUESTION2—

SELECT P\_CODE,P\_price , P\_ONHAND \* P\_price AS dollarVal

From product\_T

WHERE (P\_ONHAND \* P\_price)< 1000 ;

--QUESTION3—

SELECT P\_CODE,P\_PRICE ,P\_DISCOUNT

FROM PRODUCT\_T

ORDER by P\_PRICE DESC;

--QUESTION4—

SELECT \*

FROM Product\_T

WHERE P\_CODE LIKE 'B%'

ORDER by P\_price;

--QUESTION5—

select DISTINCT v\_code

from product\_T

where p\_min <10;

--QUESTION6—

select COUNT(\*)

from Product\_T;

--QUESTION7—

select sum(p\_onhand) AS totalQuantityOnhand, AVG(P\_PRICE) AS AveragePrice, min(p\_discount) AS MinDiscountRate , max(P\_discount) AS MaxDiscountRate

FROM product\_T

--Question8

select v\_code , min(P\_PRICE) , avg(p\_discount)

FROM product\_T

WHERE p\_onhand <p\_min

GROUP BY V\_code;

--Question9

select p\_discount , min (P\_price), max(P\_price)

from product\_T

where p\_discount <0.1

Group by p\_discount ;

--Question10

select v\_code , min(P\_PRICE),MAX(P\_price)

from product\_T

GROUP BY V\_CODE

HAVING count(V\_code) >3;