

# APPLE TREE SUPPLIER



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# <u>Table of Contents:</u>

Contents:	2
Relatinal Schema:	3
Create Table Command:	
Screen Shots of Create Table:	5-6
:	
:	
:	



#### Relational Schema:

```
Customer (Customer ID, Family_Name, Given_Name, Address, Town, Phone_No, Register_Date)

Order_Form (Order ID, Customer_ID*, Order_Date)

Order_Item (Tree ID*, Order_ID*)

Tree (ID, RootType*, Variety*, Age, Pot_size, Price, Available_On)

Rootstock (RootstockType, Tree_Size, Discription)

Variety (Name, Pollination_Group, Fruiting_Season, Cooking, Eating, Fruit_Size, Fruit_Color, Yield)
```

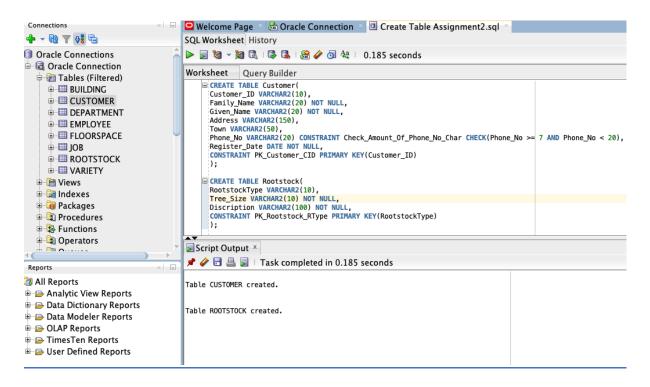
# **Create Table Commands:**

```
CREATE TABLE Customer(
Customer_ID VARCHAR2(10),
Family Name VARCHAR2(20) NOT NULL,
Given Name VARCHAR2(20) NOT NULL,
Address VARCHAR2(150),
Town VARCHAR2(50),
Phone No VARCHAR2(20) CONSTRAINT Check Amount Of Phone No Char
CHECK(Phone No >= 7 AND Phone No < 20),
Register Date DATE NOT NULL,
CONSTRAINT PK_Customer_CID PRIMARY KEY(Customer_ID)
);
CREATE TABLE Rootstock(
RootstockType VARCHAR2(10),
Tree Size VARCHAR2(10) NOT NULL,
Discription VARCHAR2(100) NOT NULL,
CONSTRAINT PK_Rootstock_RType PRIMARY KEY(RootstockType)
);
```

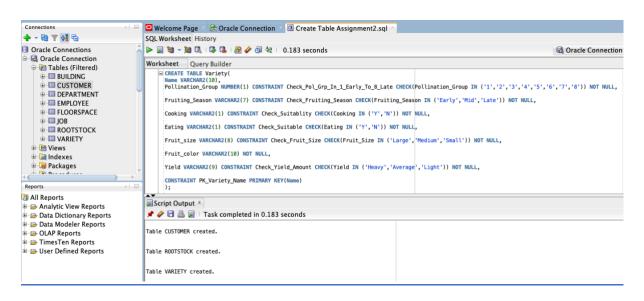
```
CREATE TABLE Variety(
Name VARCHAR2(10),
Pollination_Group NUMBER(1) CONSTRAINT Check_Pol_Grp_In_1_Early_To_8_Late
CHECK(Pollination Group IN ('1','2','3','4','5','6','7','8')) NOT NULL,
Fruiting Season VARCHAR2(7) CONSTRAINT Check Fruiting Season CHECK(Fruiting Season
IN ('Early','Mid','Late')) NOT NULL,
Cooking VARCHAR2(1) CONSTRAINT Check_Suitablity CHECK(Cooking IN ('Y','N')) NOT NULL,
Eating VARCHAR2(1) CONSTRAINT Check Suitable CHECK(Eating IN ('Y','N')) NOT NULL,
Fruit size VARCHAR2(8) CONSTRAINT Check Fruit Size CHECK(Fruit Size IN
('Large', 'Medium', 'Small')) NOT NULL,
Fruit color VARCHAR2(10) NOT NULL,
Yield VARCHAR2(9) CONSTRAINT Check_Yield_Amount CHECK(Yield IN
('Heavy','Average','Light')) NOT NULL,
CONSTRAINT PK_Variety_Name PRIMARY KEY(Name)
);
CREATE TABLE Tree(
ID VARCHAR2(10),
Roottype VARCHAR2(10) NOT NULL
REFERENCES Rootstock(RootstockType),
Variety VARCHAR2(10) NOT NULL
REFERENCES Variety(Name),
Age NUMBER(3),
Pot size VARCMAR2(8),
Price DECIMAL(4,2) CONSTRAINT Check Price Greater than Zero CHECK(Price > 0) NOT
NULL,
Available On DATE NOT NULL,
CONSTRAINT PK_Tree_ID PRIMARY KEY(ID)
);
CREATE TABLE Order Form(
Order ID VARCHAR2(10),
Customer ID VARCHAR2(10) NOT NULL,
Order Date DATE NOT NULL,
CONSTRAINT PK Order Form OID PRIMARY KEY(Order ID),
CONSTRAINT FK Order Form CID FOREIGN KEY(Customer ID) REFERENCES
Customer(Customer_ID)
);
```

```
CREATE TABLE Order_Item(
Tree_ID VARCHAR2(10) NOT NULL,
Order_ID VARCHAR2(10) NOT NULL,
CONSTRAINT FK_Order_Item_TID FOREIGN KEY(Tree_ID) REFERENCES Tree(ID),
CONSTRAINT FK_Order_Item_OID FOREIGN KEY(Order_ID) REFERENCES
Order_Form(Order_ID),
CONSTRAINT PK_Order_Item_TID PRIMARY KEY(Tree_ID)
);
```

### **Customer and Rootstock Table Command:**



### Variety Table Command:



## Tree, Order Form And Order Item Table Command:

