

Assignment 01 Answer

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-- Title: Assignment01
-- Desc: Creating a normalized database from sample data
-- Author: RRoot
-- ChangeLog: (When,Who,What)
-- 9/21/2021,RRoot,Created Script
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--[ Create the Database ]--
--*****--
Use Master;
go
If exists (Select * From sysdatabases Where name='Assignment01DB_RRoot')
    Begin
        Use [master];
        Alter Database Assignment01DB_RRoot Set Single_User With Rollback Immediate; -- Kick everyone
out of the DB
        Drop Database Assignment01DB_RRoot;
    End
go
Create Database Assignment01DB_RRoot;
go
Use Assignment01DB_RRoot
go

--[ Create the Tables ]--
--*****--

/* TODO: Create Multiple tables to hold the following data
Products,Price,Units,Customer,Address,Date
Apples,$0.89,12,Bob Smith,123 Main Bellevue Wa,5/5/2006
Milk,$1.59,2,Bob Smith,123 Main Bellevue Wa,5/5/2006
Bread,$2.28,1,Bob Smith,123 Main Bellevue Wa,5/5/2006
*/

Create Table dbo.Products(
    ProductId int Primary Key Not Null, --PK
    ProductName varchar(50) Not Null,
    ProductCurrentPrice Money Null
);
go

Create Table dbo.Customers(
    CustomerId int Primary Key Not Null, --PK
    CustomerFirstName varchar(50) Not Null,
    CustomerLastName varchar(50) Not Null,
    CustomerAddress varchar(50) Not Null,
    CustomerCity varchar(50) Not Null,
    CustomerState varchar(50) Not Null,
);
go

Create Table dbo.Sales(
    SalesId int Primary Key Not Null, --PK
    SalesDate date Not Null,
    CustomerId int Not Null, --FK
);
go
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Create Table dbo.SalesDetails(
    SalesId int Not Null, --PK
    SalesLineId int Not Null, --PK
    ProductId int Not Null, --FK
    SalesPrice money Not Null,
    SalesUnits int Not Null,
    Primary Key(SalesId, SalesLineId)
);
go

-- TODO: Insert the provided data to test your design
Insert Into Products (
    ProductId
, ProductName
, ProductCurrentPrice )
Values
    (1, 'Apples', 0.89 )
, (2, 'Milk', 1.59)
, (3, 'Bread', 2.26);
go

Insert Into Customers(
    CustomerId
, CustomerFirstName
, CustomerLastName
, CustomerAddress
, CustomerCity
, CustomerState)
Values
    (1, 'Bob', 'Smith', '123 Main', 'Bellevue', 'Wa')
;
go

Insert Into Sales(
    SalesId
, SalesDate
, CustomerId)
Values
    (1, '5/5/2006', 1)
go

Insert Into SalesDetails(
    SalesId
, SalesLineId
, ProductId
, SalesPrice
, SalesUnits)
Values
    (1, 1, 1, 0.89, 12)
, (1, 2, 2, 1.59, 2)
, (1, 3, 3, 2.28, 1)
;
go

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