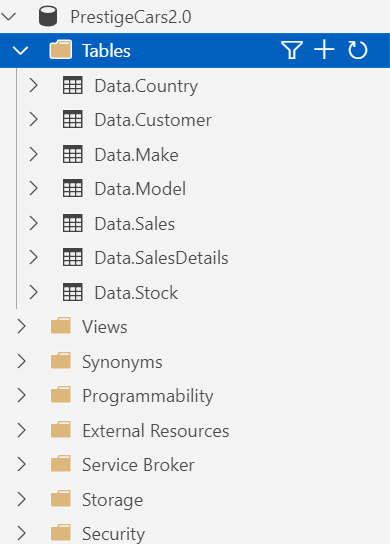
This is how we first started.

We built a new Database called PrestigeCars2.0:



The script for this new database is: -- Step 1: Create new database

CREATE DATABASE [PrestigeCars2.0];

GO

-- Step 2: Use the new database

USE [PrestigeCars2.0];

GO

-- Step 3: Create schema

CREATE SCHEMA Data;

GO

-- Step 4: Create all UDTs

-- COUNTRY

CREATE TYPE UDT\_CountryID FROM INT;

CREATE TYPE UDT\_CountryName FROM NVARCHAR(150);

CREATE TYPE UDT\_CountryISO2 FROM NCHAR(10);

CREATE TYPE UDT\_CountryISO3 FROM NCHAR(10);

CREATE TYPE UDT\_Region FROM NVARCHAR(20);

-- MAKE

CREATE TYPE UDT\_MakeID FROM INT;

CREATE TYPE UDT\_MakeName FROM NVARCHAR(100);

CREATE TYPE UDT\_MakeCountry FROM CHAR(3);

-- MODEL

CREATE TYPE UDT\_ModelID FROM INT;

CREATE TYPE UDT\_ModelName FROM NVARCHAR(150);

CREATE TYPE UDT\_ModelVariant FROM NVARCHAR(150);

CREATE TYPE UDT\_Year FROM CHAR(4);

-- CUSTOMER

CREATE TYPE UDT\_CustomerID FROM NVARCHAR(5);

CREATE TYPE UDT\_CustomerName FROM NVARCHAR(150);

CREATE TYPE UDT\_Address FROM NVARCHAR(50);

CREATE TYPE UDT\_IsReseller FROM BIT;

CREATE TYPE UDT\_IsCreditRisk FROM BIT;

-- STOCK

CREATE TYPE UDT\_StockCode FROM NVARCHAR(50);

CREATE TYPE UDT\_ColorID FROM INT;

CREATE TYPE UDT\_Cost FROM MONEY;

CREATE TYPE UDT\_RepairsCost FROM MONEY;

CREATE TYPE UDT\_PartsCost FROM MONEY;

CREATE TYPE UDT\_TransportCost FROM MONEY;

CREATE TYPE UDT\_BuyerComments FROM NVARCHAR(4000);

CREATE TYPE UDT\_DateBought FROM DATE;

CREATE TYPE UDT\_TimeBought FROM TIME(7);

-- SALES

CREATE TYPE UDT\_SalesID FROM INT;

CREATE TYPE UDT\_InvoiceNumber FROM CHAR(8);

CREATE TYPE UDT\_SaleDate FROM DATETIME;

CREATE TYPE UDT\_TotalSalePrice FROM NUMERIC(18,2);

-- SALES DETAILS

CREATE TYPE UDT\_LineItemNumber FROM TINYINT;

CREATE TYPE UDT\_SalePrice FROM NUMERIC(18,2);

CREATE TYPE UDT\_LineItemDiscount FROM NUMERIC(18,2);

GO

-- Step 5: Create Tables

-- Country Table

CREATE TABLE Data.Country (

CountryID UDT\_CountryID PRIMARY KEY,

CountryName UDT\_CountryName NOT NULL DEFAULT N'Unknown',

CountryISO2 UDT\_CountryISO2 DEFAULT N'--',

CountryISO3 UDT\_CountryISO3 DEFAULT N'---',

SalesRegion UDT\_Region DEFAULT N'Unknown'

);

GO

-- Make Table

CREATE TABLE Data.Make (

MakeID UDT\_MakeID PRIMARY KEY,

MakeName UDT\_MakeName NOT NULL DEFAULT N'Unknown Make',

MakeCountry UDT\_MakeCountry DEFAULT '---'

);

GO

-- Model Table

CREATE TABLE Data.Model (

ModelID UDT\_ModelID PRIMARY KEY,

MakeID UDT\_MakeID FOREIGN KEY REFERENCES Data.Make(MakeID),

ModelName UDT\_ModelName DEFAULT N'Unknown Model',

);

GO

-- Customer Table

CREATE TABLE Data.Customer (

CustomerID UDT\_CustomerID PRIMARY KEY,

CustomerName UDT\_CustomerName NOT NULL DEFAULT N'Anonymous',

Address1 UDT\_Address DEFAULT N'Address Not Provided',

Address2 UDT\_Address DEFAULT N'Address Not Provided',

Town UDT\_Address DEFAULT N'Town not found',

PostCode UDT\_Address DEFAULT N'00000',

CountryID UDT\_CountryID FOREIGN KEY REFERENCES Data.Country(CountryID),

IsReseller UDT\_IsReseller DEFAULT 0,

IsCreditRisk UDT\_IsCreditRisk DEFAULT 0

);

GO

-- Sales Table

CREATE TABLE Data.Sales (

SalesID UDT\_SalesID PRIMARY KEY,

CustomerID UDT\_CustomerID FOREIGN KEY REFERENCES Data.Customer(CustomerID),

InvoiceNumber UDT\_InvoiceNumber DEFAULT '00000000',

SaleDate UDT\_SaleDate DEFAULT GETDATE(),

TotalSalePrice UDT\_TotalSalePrice DEFAULT 0

);

GO

-- Stock Table (foreign keys aligned)

CREATE TABLE Data.Stock (

StockCode UDT\_StockCode PRIMARY KEY,

ModelID UDT\_ModelID FOREIGN KEY REFERENCES Data.Model(ModelID),

ColorID UDT\_ColorID, -- FK removed if Color table doesn't exist

Cost UDT\_Cost DEFAULT 0,

RepairsCost UDT\_RepairsCost DEFAULT 0,

PartsCost UDT\_PartsCost DEFAULT 0,

TransportInCost UDT\_TransportCost DEFAULT 0,

BuyerComments UDT\_BuyerComments DEFAULT N'',

IsRHD UDT\_IsReseller DEFAULT 0,

DateBought UDT\_DateBought DEFAULT GETDATE(),

TimeBought UDT\_TimeBought DEFAULT CAST(GETDATE() AS TIME(7))

);

GO

-- SalesDetails Table (foreign keys aligned)

CREATE TABLE Data.SalesDetails (

SalesDetailsID INT PRIMARY KEY,

SalesID UDT\_SalesID FOREIGN KEY REFERENCES Data.Sales(SalesID),

StockID UDT\_StockCode, -- FK removed if Color table doesn't exist

LineItemNumber UDT\_LineItemNumber DEFAULT 1,

SalePrice UDT\_SalePrice DEFAULT 0,

LineItemDiscount UDT\_LineItemDiscount DEFAULT 0

);

GO

—---------

The next step was to clean the old database so thast it’s normalized.

We’d then trsanfer/Load the new tables w the old already clean database

--INSERTING INTO NEW DATA(just testing it)

INSERT INTO Data.Country (CountryID, CountryName, CountryISO2, CountryISO3, SalesRegion)

VALUES

(1, N'Belgium', N'BE', N'BEL', N'EMEA'),

(2, N'France', N'FR', N'FRA', N'EMEA'),

(3, N'Germany', N'DE', N'DEU', N'EMEA'),

(4, N'Italy', N'IT', N'ITA', N'EMEA'),

(5, N'Spain', N'ES', N'ESP', N'EMEA'),

(6, N'United Kingdom', N'GB', N'GBR', N'EMEA'),

(7, N'United States', N'US', N'USA', N'North America'),

(8, N'China', N'CN', N'CHN', N'Asia'),

(9, N'India', N'IN', N'IND', N'Asia'),

(10, N'Switzerland', N'CH', N'CHF', N'EMEA');

GO