

DDL AND DML

ASSIGNMENT 1 – DBAS 3035 INFORMATION SYSTEMS DESIGN

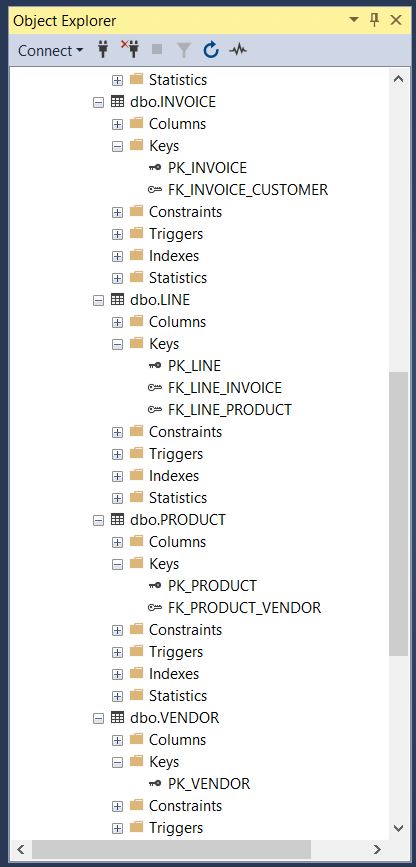
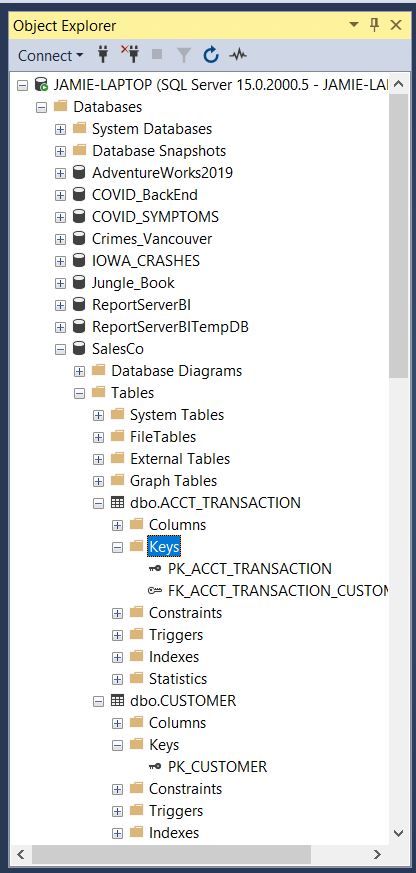


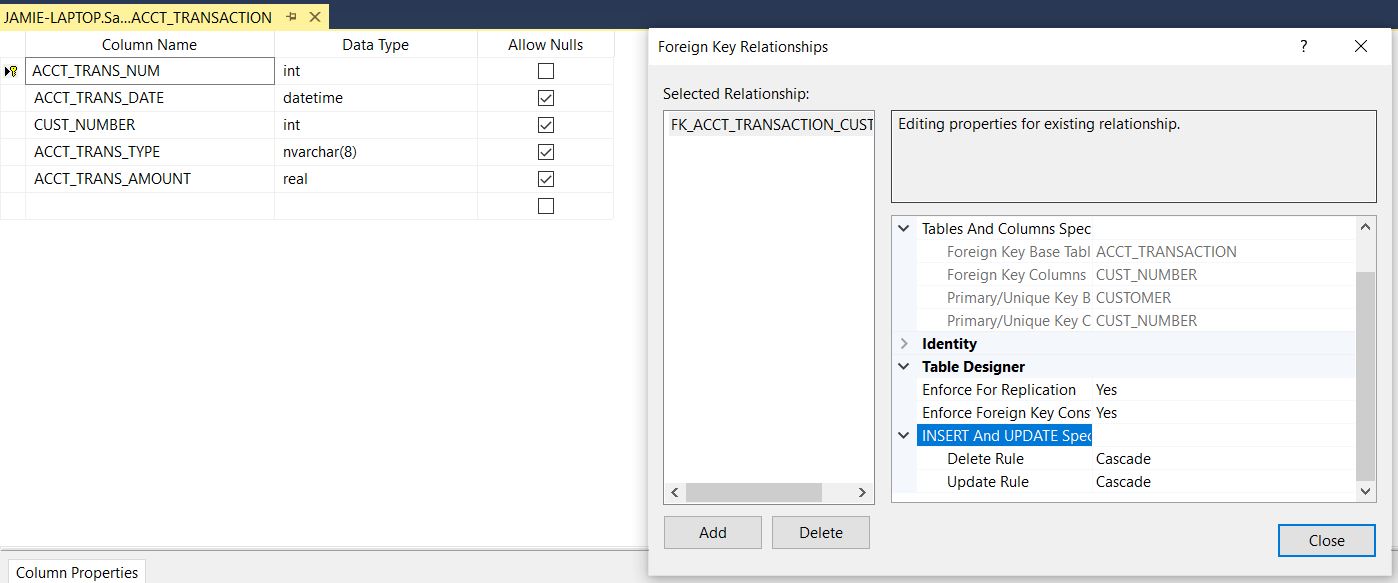
February 26, 2021

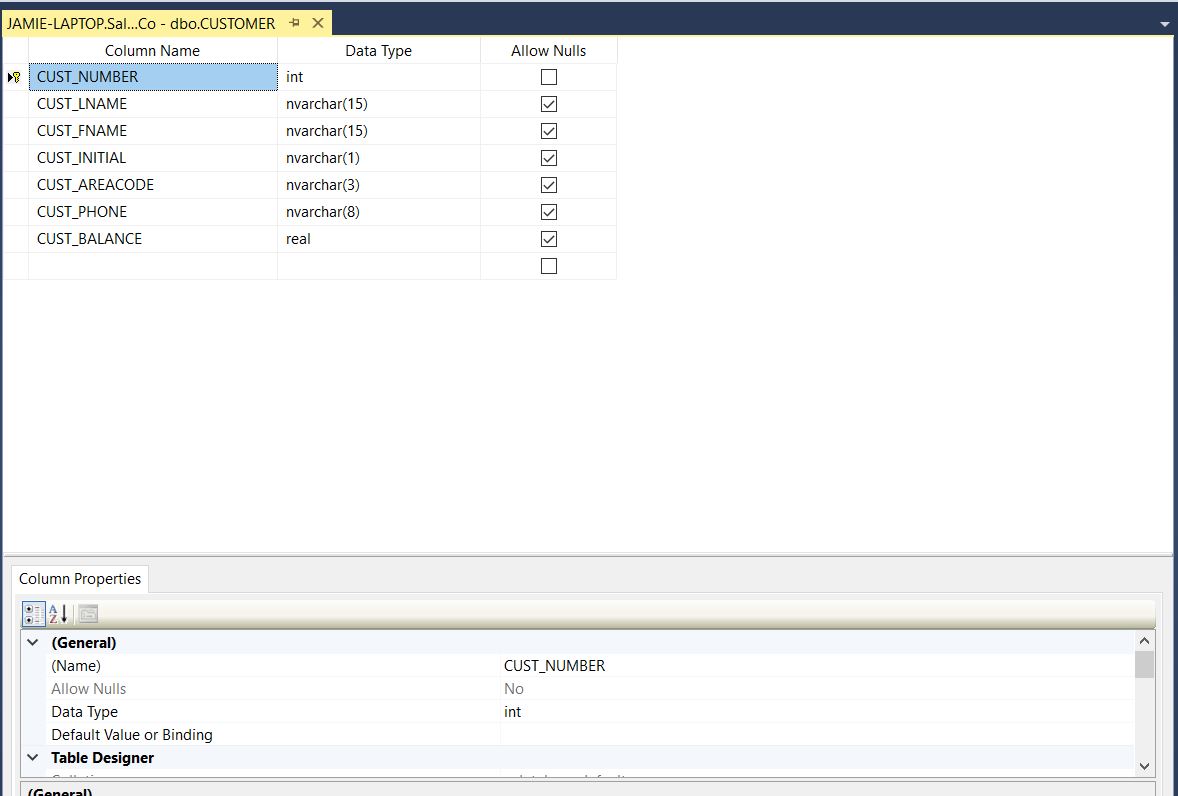
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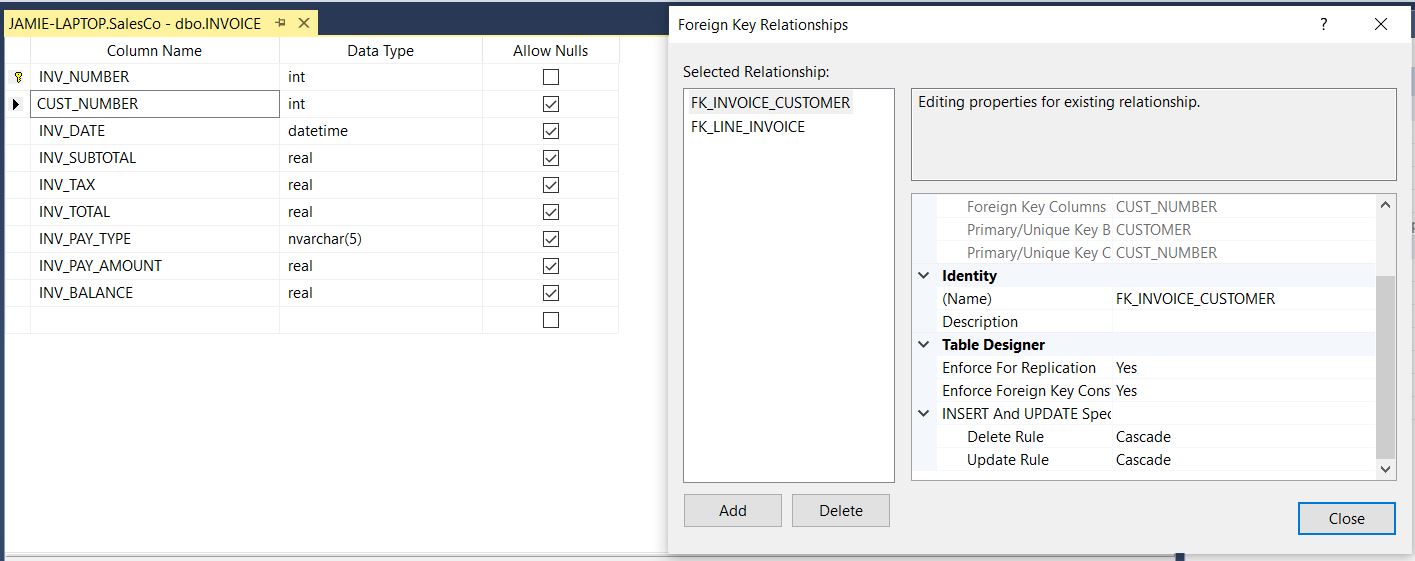
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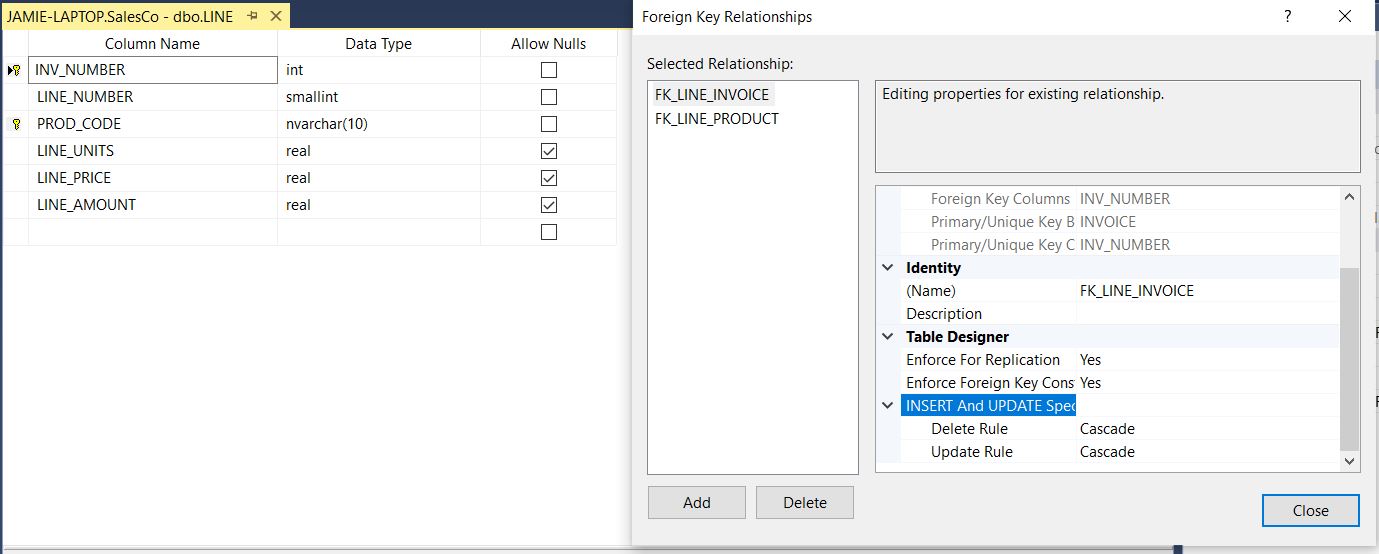
# MS SQL DATABASE AND TABLES

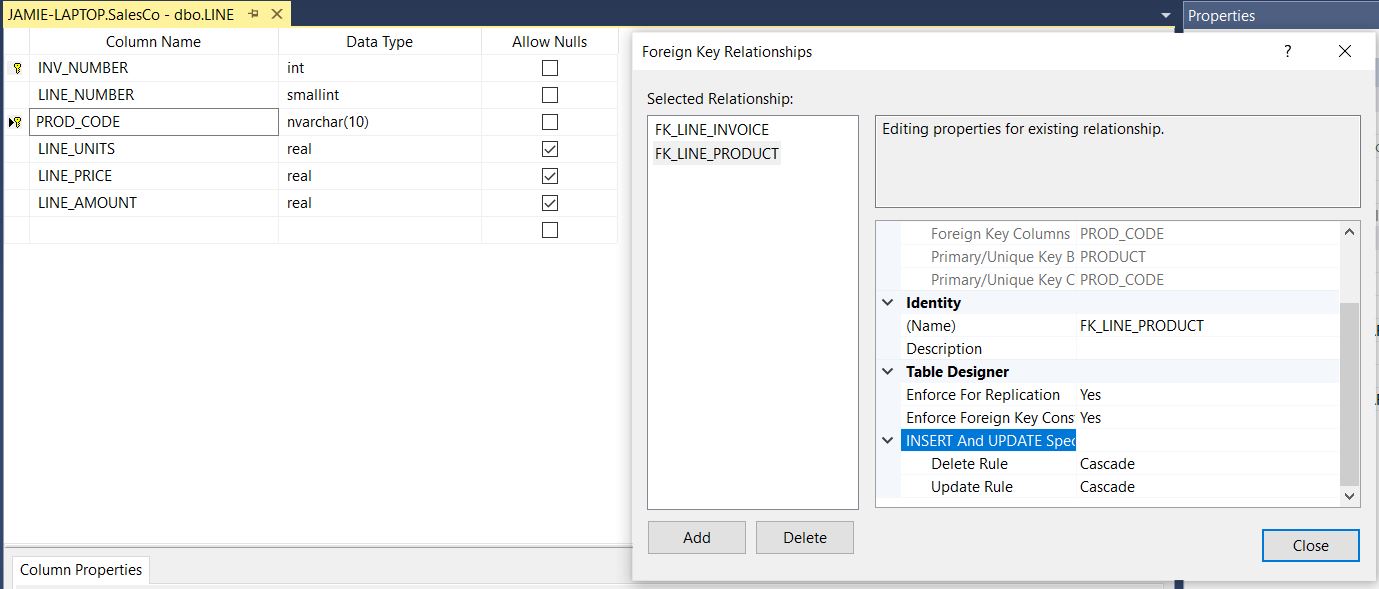


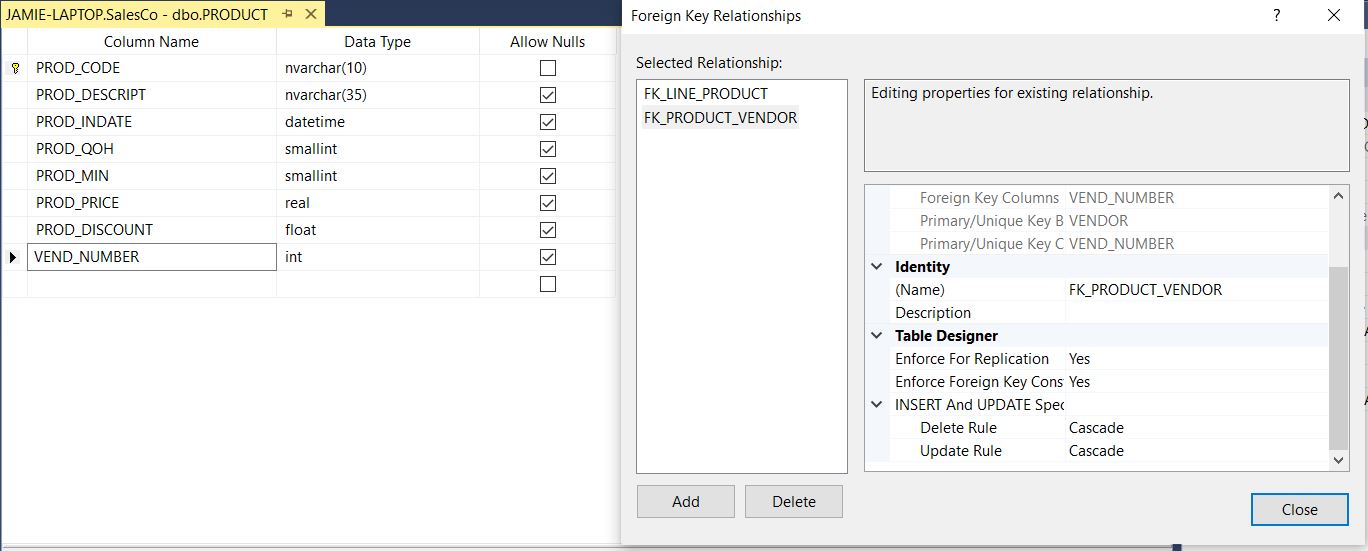


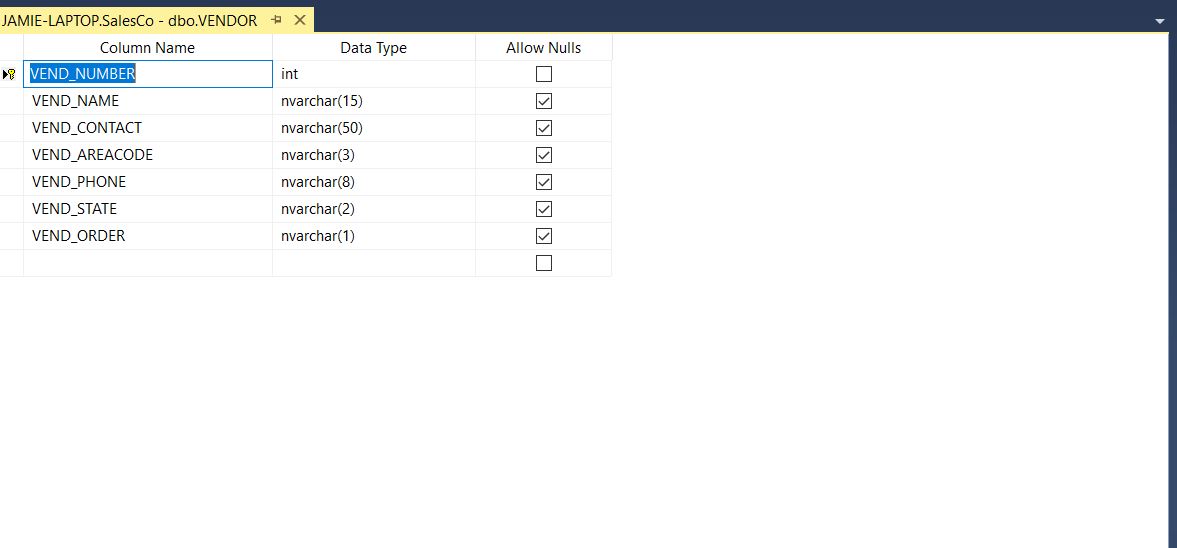




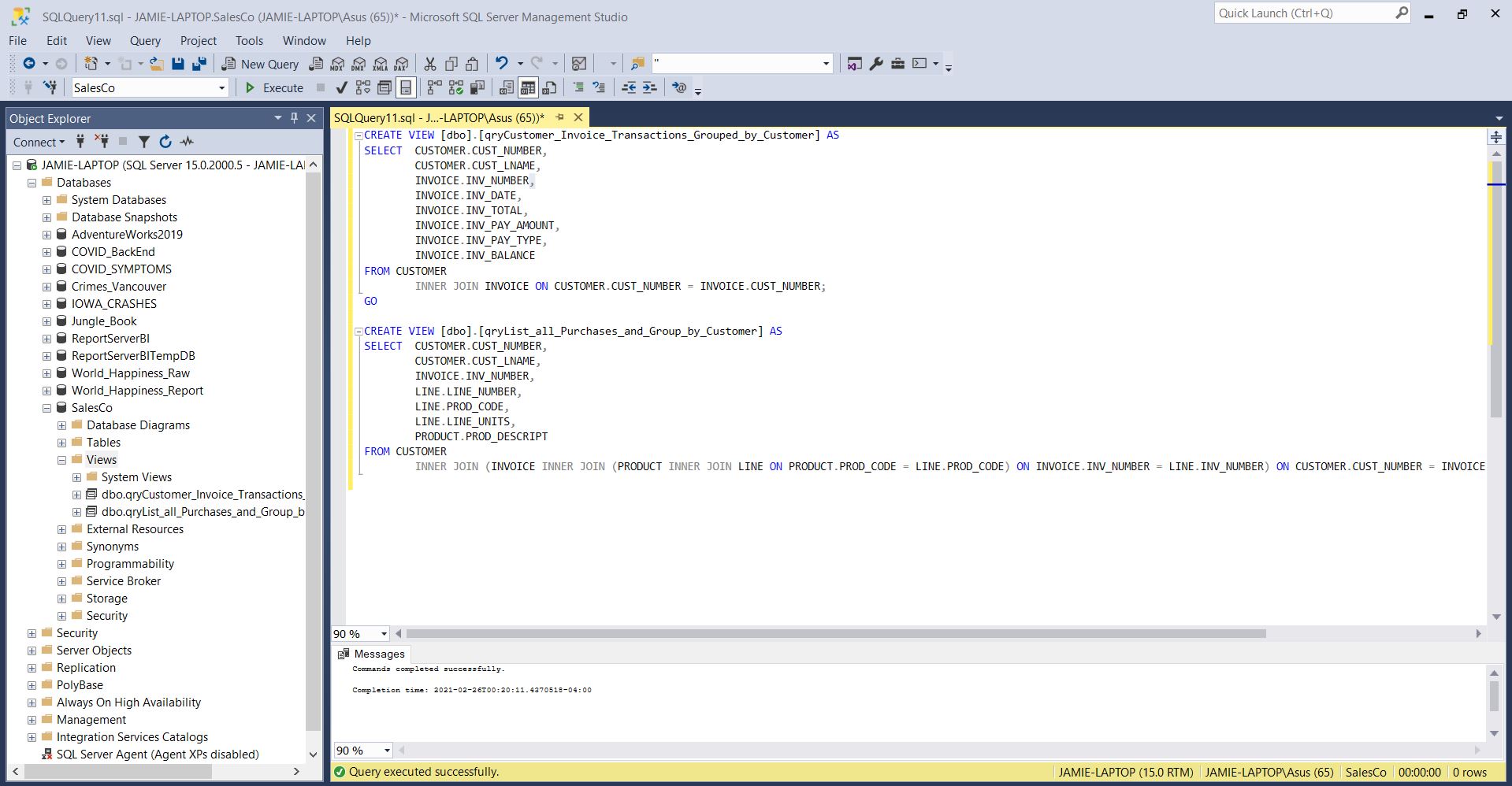


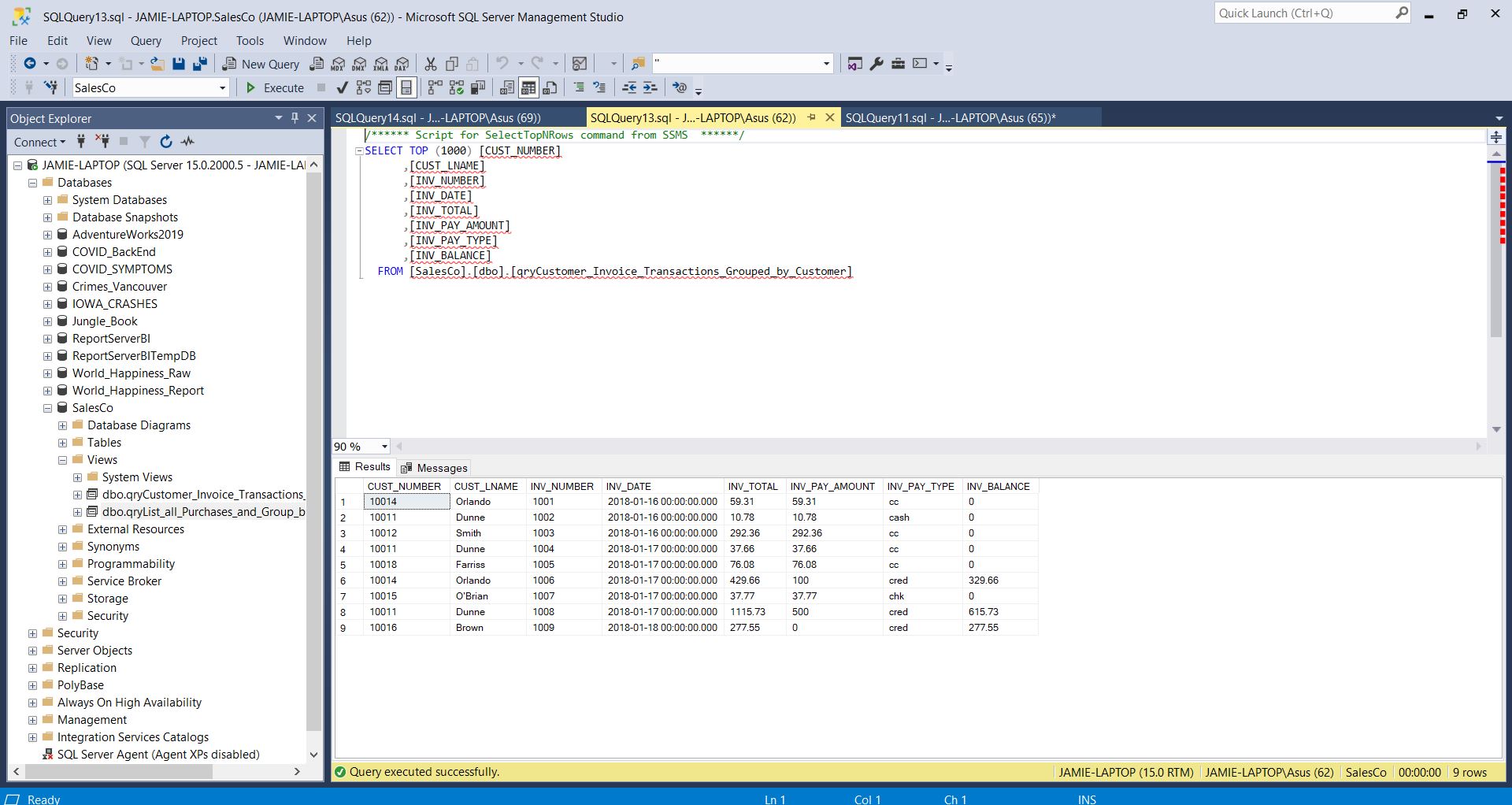


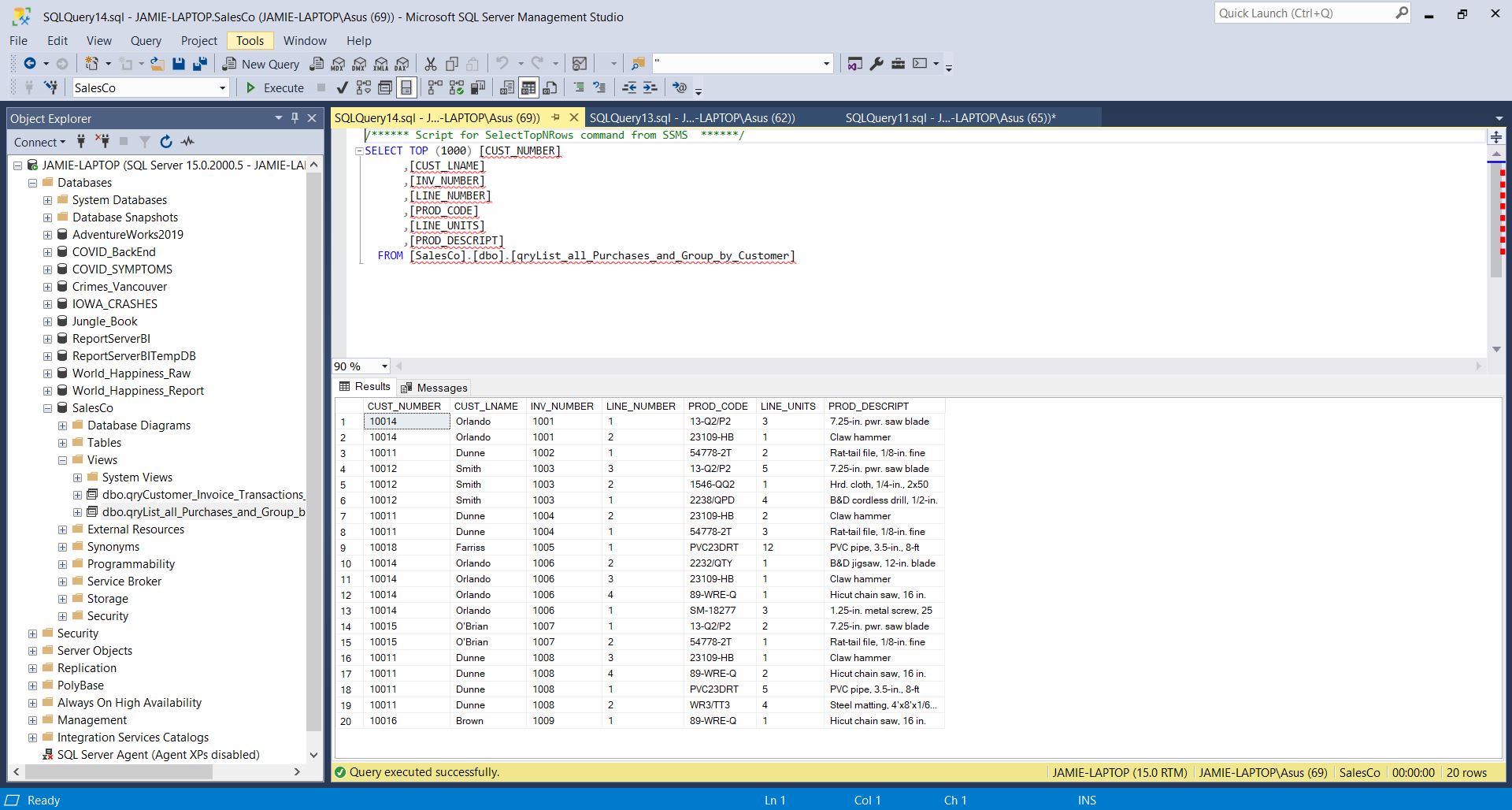




# VIEWS







# COMPOSITE SQL CODE TO RECREATE THE DATABASE

USE [master]

GO

/\*\*\*\*\*\* Object: Database [SalesCo] Script Date: 2021-02-26 5:01:52 PM \*\*\*\*\*\*/

CREATE DATABASE [SalesCo]

CONTAINMENT = NONE

ON PRIMARY

( NAME = N'SalesCo', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA\SalesCo.mdf' , SIZE = 8192KB , MAXSIZE = UNLIMITED, FILEGROWTH = 65536KB )

LOG ON

( NAME = N'SalesCo\_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA\SalesCo\_log.ldf' , SIZE = 8192KB , MAXSIZE = 2048GB , FILEGROWTH = 65536KB )

WITH CATALOG\_COLLATION = DATABASE\_DEFAULT

GO

ALTER DATABASE [SalesCo] SET COMPATIBILITY\_LEVEL = 150

GO

IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))

begin

EXEC [SalesCo].[dbo].[sp\_fulltext\_database] @action = 'enable'

end

GO

ALTER DATABASE [SalesCo] SET ANSI\_NULL\_DEFAULT OFF

GO

ALTER DATABASE [SalesCo] SET ANSI\_NULLS OFF

GO

ALTER DATABASE [SalesCo] SET ANSI\_PADDING OFF

GO

ALTER DATABASE [SalesCo] SET ANSI\_WARNINGS OFF

GO

ALTER DATABASE [SalesCo] SET ARITHABORT OFF

GO

ALTER DATABASE [SalesCo] SET AUTO\_CLOSE OFF

GO

ALTER DATABASE [SalesCo] SET AUTO\_SHRINK OFF

GO

ALTER DATABASE [SalesCo] SET AUTO\_UPDATE\_STATISTICS ON

GO

ALTER DATABASE [SalesCo] SET CURSOR\_CLOSE\_ON\_COMMIT OFF

GO

ALTER DATABASE [SalesCo] SET CURSOR\_DEFAULT GLOBAL

GO

ALTER DATABASE [SalesCo] SET CONCAT\_NULL\_YIELDS\_NULL OFF

GO

ALTER DATABASE [SalesCo] SET NUMERIC\_ROUNDABORT OFF

GO

ALTER DATABASE [SalesCo] SET QUOTED\_IDENTIFIER OFF

GO

ALTER DATABASE [SalesCo] SET RECURSIVE\_TRIGGERS OFF

GO

ALTER DATABASE [SalesCo] SET DISABLE\_BROKER

GO

ALTER DATABASE [SalesCo] SET AUTO\_UPDATE\_STATISTICS\_ASYNC OFF

GO

ALTER DATABASE [SalesCo] SET DATE\_CORRELATION\_OPTIMIZATION OFF

GO

ALTER DATABASE [SalesCo] SET TRUSTWORTHY OFF

GO

ALTER DATABASE [SalesCo] SET ALLOW\_SNAPSHOT\_ISOLATION OFF

GO

ALTER DATABASE [SalesCo] SET PARAMETERIZATION SIMPLE

GO

ALTER DATABASE [SalesCo] SET READ\_COMMITTED\_SNAPSHOT OFF

GO

ALTER DATABASE [SalesCo] SET HONOR\_BROKER\_PRIORITY OFF

GO

ALTER DATABASE [SalesCo] SET RECOVERY FULL

GO

ALTER DATABASE [SalesCo] SET MULTI\_USER

GO

ALTER DATABASE [SalesCo] SET PAGE\_VERIFY CHECKSUM

GO

ALTER DATABASE [SalesCo] SET DB\_CHAINING OFF

GO

ALTER DATABASE [SalesCo] SET FILESTREAM( NON\_TRANSACTED\_ACCESS = OFF )

GO

ALTER DATABASE [SalesCo] SET TARGET\_RECOVERY\_TIME = 60 SECONDS

GO

ALTER DATABASE [SalesCo] SET DELAYED\_DURABILITY = DISABLED

GO

EXEC sys.sp\_db\_vardecimal\_storage\_format N'SalesCo', N'ON'

GO

ALTER DATABASE [SalesCo] SET QUERY\_STORE = OFF

GO

USE [SalesCo]

GO

/\*\*\*\*\*\* Object: Table [dbo].[CUSTOMER] Script Date: 2021-02-26 5:01:52 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[CUSTOMER](

[CUST\_NUMBER] [int] NOT NULL,

[CUST\_LNAME] [nvarchar](15) NULL,

[CUST\_FNAME] [nvarchar](15) NULL,

[CUST\_INITIAL] [nvarchar](1) NULL,

[CUST\_AREACODE] [nvarchar](3) NULL,

[CUST\_PHONE] [nvarchar](8) NULL,

[CUST\_BALANCE] [real] NULL,

CONSTRAINT [PK\_CUSTOMER] PRIMARY KEY CLUSTERED

(

[CUST\_NUMBER] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[INVOICE] Script Date: 2021-02-26 5:01:52 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[INVOICE](

[INV\_NUMBER] [int] NOT NULL,

[CUST\_NUMBER] [int] NULL,

[INV\_DATE] [datetime] NULL,

[INV\_SUBTOTAL] [real] NULL,

[INV\_TAX] [real] NULL,

[INV\_TOTAL] [real] NULL,

[INV\_PAY\_TYPE] [nvarchar](5) NULL,

[INV\_PAY\_AMOUNT] [real] NULL,

[INV\_BALANCE] [real] NULL,

CONSTRAINT [PK\_INVOICE] PRIMARY KEY CLUSTERED

(

[INV\_NUMBER] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: View [dbo].[qryCustomer\_Invoice\_Transactions\_Grouped\_by\_Customer] Script Date: 2021-02-26 5:01:52 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE VIEW [dbo].[qryCustomer\_Invoice\_Transactions\_Grouped\_by\_Customer] AS

SELECT CUSTOMER.CUST\_NUMBER,

CUSTOMER.CUST\_LNAME,

INVOICE.INV\_NUMBER,

INVOICE.INV\_DATE,

INVOICE.INV\_TOTAL,

INVOICE.INV\_PAY\_AMOUNT,

INVOICE.INV\_PAY\_TYPE,

INVOICE.INV\_BALANCE

FROM CUSTOMER

INNER JOIN INVOICE ON CUSTOMER.CUST\_NUMBER = INVOICE.CUST\_NUMBER;

GO

/\*\*\*\*\*\* Object: Table [dbo].[PRODUCT] Script Date: 2021-02-26 5:01:52 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[PRODUCT](

[PROD\_CODE] [nvarchar](10) NOT NULL,

[PROD\_DESCRIPT] [nvarchar](35) NULL,

[PROD\_INDATE] [datetime] NULL,

[PROD\_QOH] [smallint] NULL,

[PROD\_MIN] [smallint] NULL,

[PROD\_PRICE] [real] NULL,

[PROD\_DISCOUNT] [float] NULL,

[VEND\_NUMBER] [int] NULL,

CONSTRAINT [PK\_PRODUCT] PRIMARY KEY CLUSTERED

(

[PROD\_CODE] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[LINE] Script Date: 2021-02-26 5:01:52 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[LINE](

[INV\_NUMBER] [int] NOT NULL,

[LINE\_NUMBER] [smallint] NOT NULL,

[PROD\_CODE] [nvarchar](10) NOT NULL,

[LINE\_UNITS] [real] NULL,

[LINE\_PRICE] [real] NULL,

[LINE\_AMOUNT] [real] NULL,

CONSTRAINT [PK\_LINE] PRIMARY KEY CLUSTERED

(

[INV\_NUMBER] ASC,

[PROD\_CODE] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: View [dbo].[qryList\_all\_Purchases\_and\_Group\_by\_Customer] Script Date: 2021-02-26 5:01:52 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE VIEW [dbo].[qryList\_all\_Purchases\_and\_Group\_by\_Customer] AS

SELECT CUSTOMER.CUST\_NUMBER,

CUSTOMER.CUST\_LNAME,

INVOICE.INV\_NUMBER,

LINE.LINE\_NUMBER,

LINE.PROD\_CODE,

LINE.LINE\_UNITS,

PRODUCT.PROD\_DESCRIPT

FROM CUSTOMER

INNER JOIN (INVOICE INNER JOIN (PRODUCT INNER JOIN LINE ON PRODUCT.PROD\_CODE = LINE.PROD\_CODE) ON INVOICE.INV\_NUMBER = LINE.INV\_NUMBER) ON CUSTOMER.CUST\_NUMBER = INVOICE.CUST\_NUMBER;

GO

/\*\*\*\*\*\* Object: Table [dbo].[ACCT\_TRANSACTION] Script Date: 2021-02-26 5:01:52 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[ACCT\_TRANSACTION](

[ACCT\_TRANS\_NUM] [int] NOT NULL,

[ACCT\_TRANS\_DATE] [datetime] NULL,

[CUST\_NUMBER] [int] NULL,

[ACCT\_TRANS\_TYPE] [nvarchar](8) NULL,

[ACCT\_TRANS\_AMOUNT] [real] NULL,

CONSTRAINT [PK\_ACCT\_TRANSACTION] PRIMARY KEY CLUSTERED

(

[ACCT\_TRANS\_NUM] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[VENDOR] Script Date: 2021-02-26 5:01:52 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[VENDOR](

[VEND\_NUMBER] [int] NOT NULL,

[VEND\_NAME] [nvarchar](15) NULL,

[VEND\_CONTACT] [nvarchar](50) NULL,

[VEND\_AREACODE] [nvarchar](3) NULL,

[VEND\_PHONE] [nvarchar](8) NULL,

[VEND\_STATE] [nvarchar](2) NULL,

[VEND\_ORDER] [nvarchar](1) NULL,

CONSTRAINT [PK\_VENDOR] PRIMARY KEY CLUSTERED

(

[VEND\_NUMBER] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[ACCT\_TRANSACTION] WITH CHECK ADD CONSTRAINT [FK\_ACCT\_TRANSACTION\_CUSTOMER] FOREIGN KEY([CUST\_NUMBER])

REFERENCES [dbo].[CUSTOMER] ([CUST\_NUMBER])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[ACCT\_TRANSACTION] CHECK CONSTRAINT [FK\_ACCT\_TRANSACTION\_CUSTOMER]

GO

ALTER TABLE [dbo].[INVOICE] WITH CHECK ADD CONSTRAINT [FK\_INVOICE\_CUSTOMER] FOREIGN KEY([CUST\_NUMBER])

REFERENCES [dbo].[CUSTOMER] ([CUST\_NUMBER])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[INVOICE] CHECK CONSTRAINT [FK\_INVOICE\_CUSTOMER]

GO

ALTER TABLE [dbo].[LINE] WITH CHECK ADD CONSTRAINT [FK\_LINE\_INVOICE] FOREIGN KEY([INV\_NUMBER])

REFERENCES [dbo].[INVOICE] ([INV\_NUMBER])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[LINE] CHECK CONSTRAINT [FK\_LINE\_INVOICE]

GO

ALTER TABLE [dbo].[LINE] WITH CHECK ADD CONSTRAINT [FK\_LINE\_PRODUCT] FOREIGN KEY([PROD\_CODE])

REFERENCES [dbo].[PRODUCT] ([PROD\_CODE])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[LINE] CHECK CONSTRAINT [FK\_LINE\_PRODUCT]

GO

ALTER TABLE [dbo].[PRODUCT] WITH CHECK ADD CONSTRAINT [FK\_PRODUCT\_VENDOR] FOREIGN KEY([VEND\_NUMBER])

REFERENCES [dbo].[VENDOR] ([VEND\_NUMBER])

ON UPDATE CASCADE

ON DELETE CASCADE

GO

ALTER TABLE [dbo].[PRODUCT] CHECK CONSTRAINT [FK\_PRODUCT\_VENDOR]

GO

USE [master]

GO

ALTER DATABASE [SalesCo] SET READ\_WRITE

GO