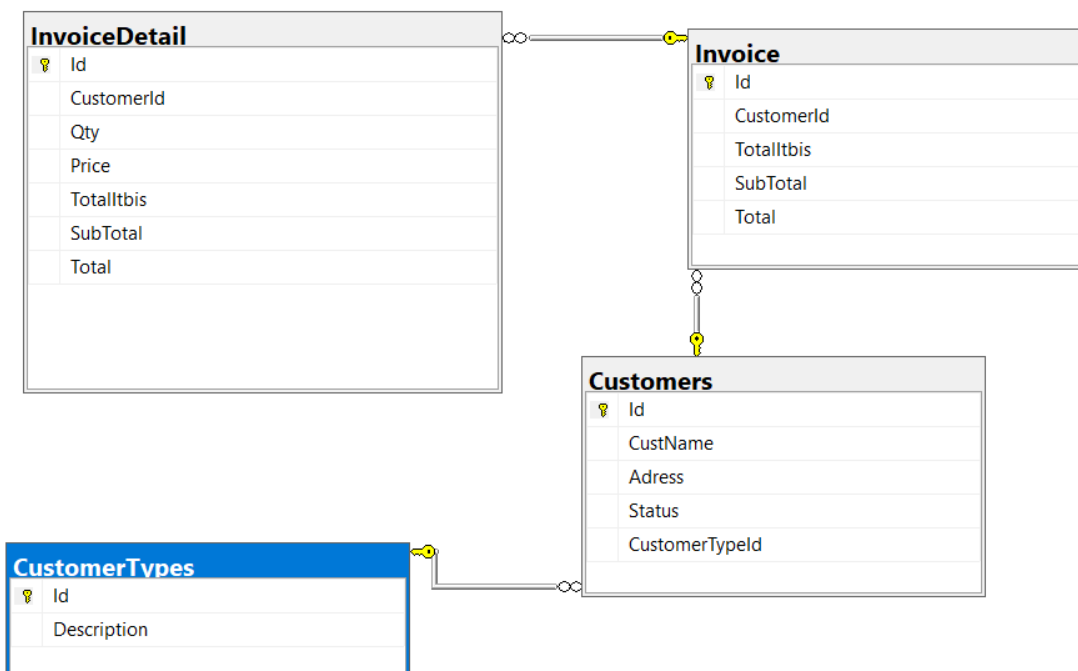


### Prueba de Programación

#### Indicaciones:

- 1) Crear sistema que tenga un mantenimiento de tipo de cliente.
- 2) Crear un mantenimiento de cliente.
- 3) Una factura donde se inyecte como dependencia el header de la factura al detalle y el detalle complete los totales o hacer que los detalles actualicen los totales con un delegado.
- 4) Utilizar patrón MVC, MVP o MVVM
- 5) Subir ejemplo con el script de la base de datos a Github

Puede hacer la aplicación con Windows Form.WPF o MVC.



**Ver estructura de la base de datos:**

```
CREATE DATABASE [Test_Invoice]
GO
USE [Test_Invoice]
GO
/***** Object: Table [dbo].[Customers]  Script Date: 1/31/2022 1:00:19 PM *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[Customers](
[Id] [int] IDENTITY(1,1) NOT NULL,
[CustName] [nvarchar](70) NOT NULL,
[Adress] [nvarchar](120) NOT NULL,
[Status] [bit] NOT NULL,
[CustomerTypeId] [int] NOT NULL,
CONSTRAINT [PK_Customer] PRIMARY KEY CLUSTERED
(
[Id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[CustomerTypes]  Script Date: 1/31/2022 1:00:19 PM *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[CustomerTypes](
[Id] [int] IDENTITY(1,1) NOT NULL,
[Description] [nvarchar](70) NOT NULL,
CONSTRAINT [PK_CustomerType] PRIMARY KEY CLUSTERED
(
[Id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[Invoice]  Script Date: 1/31/2022 1:00:19 PM *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
```

```
CREATE TABLE [dbo].[Invoice](
[Id] [int] IDENTITY(1,1) NOT NULL,
[CustomerId] [int] NOT NULL,
[TotalItbis] [money] NOT NULL,
[SubTotal] [money] NOT NULL,
[Total] [money] NOT NULL,
CONSTRAINT [PK_Invoice] PRIMARY KEY CLUSTERED
(
[Id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
/***** Object: Table [dbo].[InvoiceDetail]  Script Date: 1/31/2022 1:00:19 PM *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE TABLE [dbo].[InvoiceDetail](
[Id] [int] IDENTITY(1,1) NOT NULL,
[CustomerId] [int] NOT NULL,
[Qty] [int] NOT NULL,
[Price] [money] NOT NULL,
[TotalItbis] [money] NOT NULL,
[SubTotal] [money] NOT NULL,
[Total] [money] NOT NULL,
CONSTRAINT [PK_InvoiceDetail] PRIMARY KEY CLUSTERED
(
[Id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON,
ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[Customers] ADD CONSTRAINT [DF_Customers_Status] DEFAULT ((1)) FOR [Status]
GO
ALTER TABLE [dbo].[Customers] ADD CONSTRAINT [DF_Customers_CustomerType] DEFAULT ((1)) FOR
[CustomerTypeId]
GO
ALTER TABLE [dbo].[Invoice] ADD CONSTRAINT [DF_Invoice_TotalItbis] DEFAULT ((0)) FOR [TotalItbis]
GO
ALTER TABLE [dbo].[InvoiceDetail] ADD CONSTRAINT [DF_InvoiceDetail_TotalItbis1] DEFAULT ((0)) FOR [Qty]
GO
ALTER TABLE [dbo].[InvoiceDetail] ADD CONSTRAINT [DF_InvoiceDetail_TotalItbis] DEFAULT ((0)) FOR [TotalItbis]
GO
ALTER TABLE [dbo].[Customers] WITH CHECK ADD CONSTRAINT [FK_Customers_CustomerTypes] FOREIGN
```

```
KEY([CustomerTypeId])
REFERENCES [dbo].[CustomerTypes] ([Id])
ON UPDATE CASCADE
GO
ALTER TABLE [dbo].[Customers] CHECK CONSTRAINT [FK_Customers_CustomerTypes]
GO
ALTER TABLE [dbo].[Invoice] WITH CHECK ADD CONSTRAINT [FK_Invoice_Customers] FOREIGN KEY([CustomerId])
REFERENCES [dbo].[Customers] ([Id])
ON UPDATE CASCADE
ON DELETE CASCADE
GO
ALTER TABLE [dbo].[Invoice] CHECK CONSTRAINT [FK_Invoice_Customers]
GO
ALTER TABLE [dbo].[InvoiceDetail] WITH CHECK ADD CONSTRAINT [FK_InvoiceDetail_Invoice] FOREIGN
KEY([CustomerId])
REFERENCES [dbo].[Invoice] ([Id])
ON UPDATE CASCADE
ON DELETE CASCADE
GO
ALTER TABLE [dbo].[InvoiceDetail] CHECK CONSTRAINT [FK_InvoiceDetail_Invoice]
GO
```