



DOCUMENTACIÓN


Programación Web II

EQUIPO 4 (EDGAR, ANDREA, SAMARA, ABRAHAM)



TIENDA DE MÚJICA

DISEÑO DE LA BASE DE DATOS



USER

Username VARCHAR(15) NOT NULL,
[Name] VARCHAR(50) NOT NULL,
[Password] VARCHAR(15) NOT NULL,
Email VARCHAR(30) NOT NULL,
PhoneNumber VARCHAR(10) NULL,
Active BIT NOT NULL,
PRIMARY KEY(**Username**)

FORMAT

Id INT NOT NULL IDENTITY(1,1),
TypeCode VARCHAR(3) NOT NULL,
[Type] VARCHAR(15) NOT NULL,
PRIMARY KEY(**Id**)

GENRE

Id INT NOT NULL IDENTITY(1,1),
GenreName VARCHAR(30) NOT NULL,
PRIMARY KEY(**Id**)

ARTIST

Id INT NOT NULL IDENTITY(1,1),
StageName VARCHAR(50) NOT NULL,
RealName VARCHAR(50) NOT NULL,
[Description] VARCHAR(50) NOT NULL,
Active BIT NOT NULL,
PRIMARY KEY(**Id**)

PRODUCT

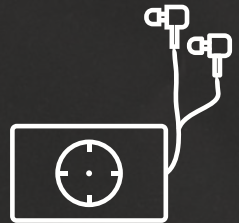
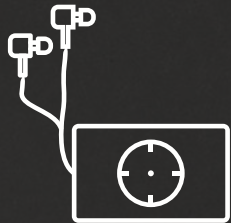
IId INT NOT NULL IDENTITY(1,1),
[Name] VARCHAR(50) NOT NULL,
Price DECIMAL NOT NULL,
[Description] VARCHAR(MAX) NULL,
Active BIT NOT NULL,
IdGenre INT NOT NULL,
CONSTRAINT FK_ProductGenre
FOREIGN KEY (IdGenre) REFERENCES
Genre(Id),
PRIMARY KEY(**Id**)

PRODUCTFORMAT

IId INT NOT NULL IDENTITY(1,1),
IdProduct INT NOT NULL,
IdFormat INT NOT NULL,
CONSTRAINT FK_ProductFormatProduct
FOREIGN KEY(**IdProduct**) REFERENCES
Product,
CONSTRAINT FK_ProductFormatFormat
FOREIGN KEY(**IdFormat**) REFERENCES
[Format],
PRIMARY KEY(**Id**)

TIENDA DE MÚJICA

DISEÑO DE LA BASE DE DATOS



SHOPPING CART

Id INT NOT NULL IDENTITY(1,1),
IdProduct INT NOT NULL,
Username VARCHAR(15) NOT NULL,
CONSTRAINT FK_ShoppingCartProduct
FOREIGN KEY (IdProduct) REFERENCES
Product(Id),
CONSTRAINT FK_ShoppingCartUser
FOREIGN KEY (Username) REFERENCES
[User](Username),
PRIMARY KEY (Id),

ARTISTPRODUCT

Id INT NOT NULL IDENTITY(1,1),
IdArtist INT NOT NULL,
IdProduct INT NOT NULL,
CONSTRAINT FK_ArtistProductArtist
FOREIGN KEY (IdArtist) REFERENCES
Artist(Id),
CONSTRAINT FK_ArtistProductProduct
FOREIGN KEY (IdProduct) REFERENCES
Product(Id),
PRIMARY KEY (Id),

PHOTOS

Id INT NOT NULL IDENTITY(1,1),
[Image] VARBINARY(MAX) NOT
NULL,
IdProduct INT NOT NULL,
CONSTRAINT FK_PhotosProduct
FOREIGN KEY (IdProduct)
REFERENCES Product(Id),
PRIMARY KEY (Id),

ADDRESS

Id INT NOT NULL,
Street VARCHAR(20) NOT NULL,
CP VARCHAR(10) NOT NULL,
City VARCHAR(20) NOT NULL,
Country VARCHAR(20) NOT NULL,
Suburb VARCHAR(20) NOT NULL,
Username VARCHAR(15) NOT NULL,
CONSTRAINT FK_AddressUser
FOREIGN KEY (Username) REFERENCES
[ser](Username),
PRIMARY KEY (Id),

ORDER

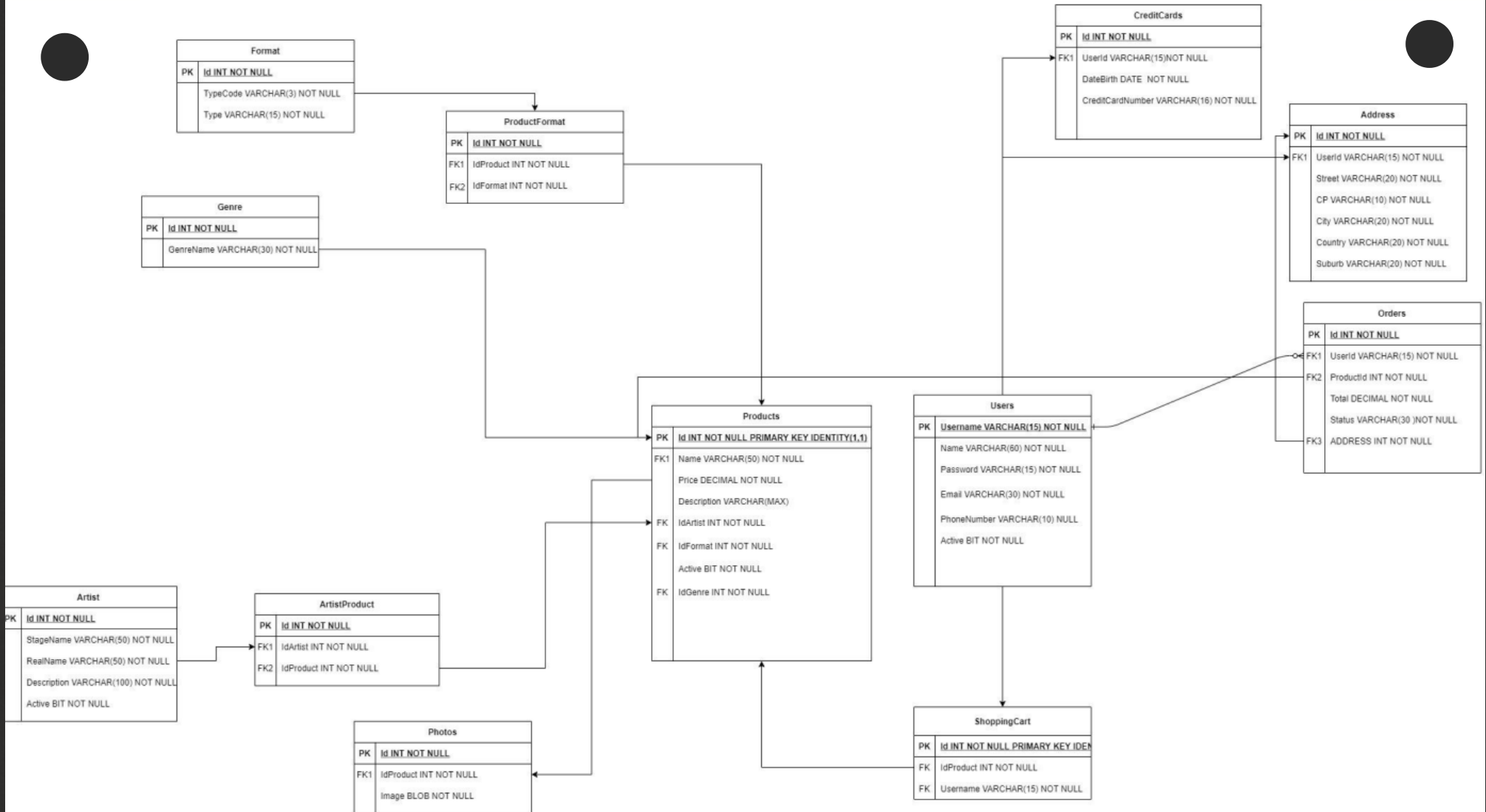
Id INT NOT NULL,
Total DECIMAL NOT NULL,
[Status] VARCHAR(30) NOT NULL,
IdAddress INT NOT NULL,
Username VARCHAR(15) NOT NULL,
IdProduct INT NOT NULL,
CONSTRAINT FK_OrderUser
FOREIGN KEY (Username) REFERENCES [User]
(Username),
CONSTRAINT FK_OrderAddress
FOREIGN KEY (IdAddress) REFERENCES [Address](Id),
PRIMARY KEY (Id),

ORDERPRODUCT

Id INT NOT NULL,
IdProduct INT NOT NULL,
IdOrder INT NOT NULL,
CONSTRAINT FK_OrderProductProduct
FOREIGN KEY (IdProduct) REFERENCES
Product(Id),
CONSTRAINT FK_OrderProductOrder
FOREIGN KEY (IdOrder) REFERENCES
[Order](Id),
PRIMARY KEY (Id),

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DISEÑO DE DIAGRAMA TDM
(Adjunto aparte en mayor calidad)

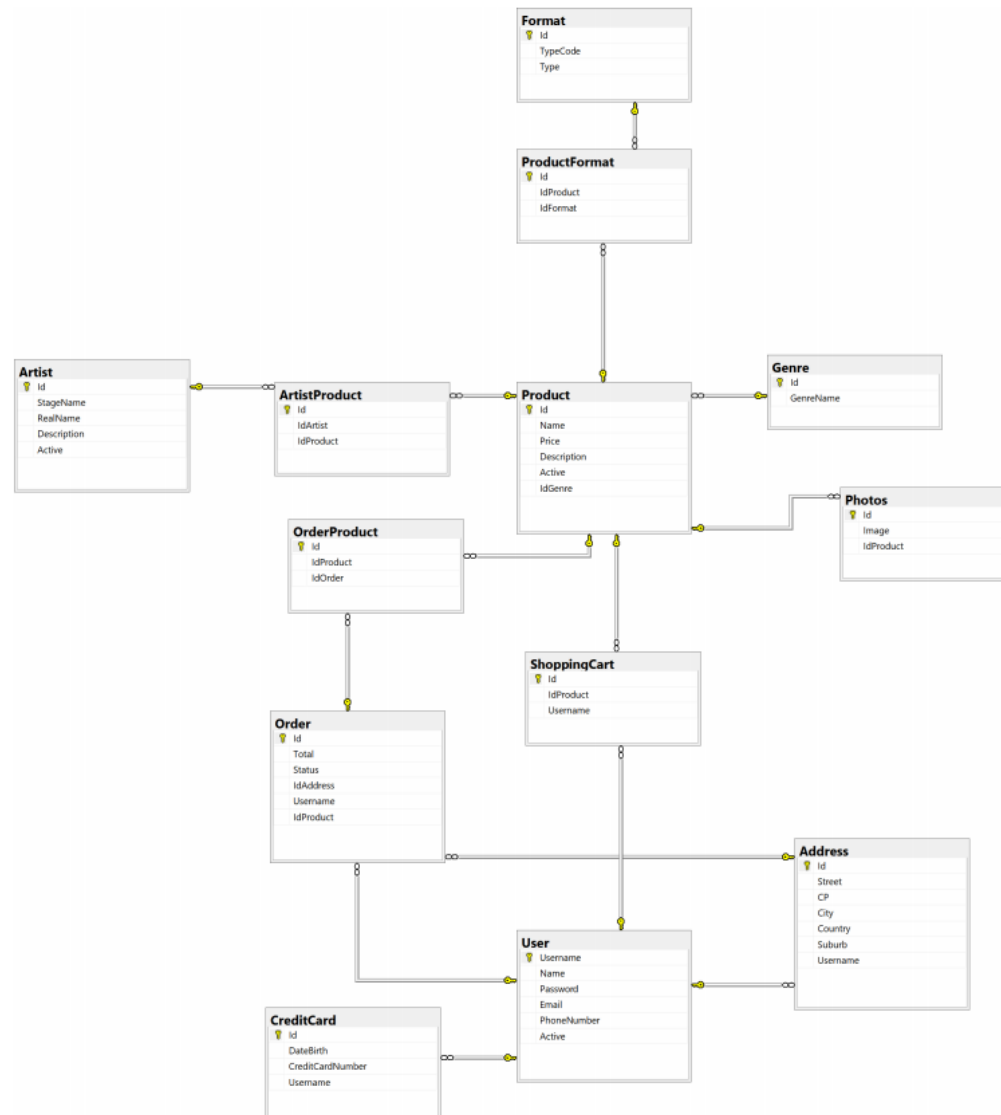




TIENDA DE MÚJICA



DIAGRAMA TDM GENERADO DESDE SQL SERVER
(Adjunto aparte en mayor calidad)





TIENDA DE MÚJICA

MODELOS



Address

```
namespace TiendaDeMujica.Models
{
    3referencias
    public class Address
    {
        1referencia
        public int Id { get; set; }
        1referencia
        public string Street { get; set; }
        1referencia
        public string CP { get; set; }
        1referencia
        public string City { get; set; }
        1referencia
        public string Country { get; set; }
        1referencia
        public string Suburb { get; set; }
        1referencia
        public virtual User Username { get; set; }
        //address
    }
}
```

Artist

```
namespace TiendaDeMujica.Models
{
    2referencias
    public class Artist
    {
        1referencia
        public int Id { get; set; }
        1referencia
        public string StageName { get; set; }
        1referencia
        public string RealName { get; set; }
        1referencia
        public string Description { get; set; }
        1referencia
        public bool Active { get; set; }
    }
}
```



TIENDA DE MÚJICA

MODELOS



ArtistProduct

```
namespace TiendaDeMujica.Models
{
    2referencias
    public class ArtistProduct
    {
        1referencia
        public int Id { get; set; }
        1referencia
        public int IdArtist { get; set; }
        1referencia
        public int IdProduct { get; set; }
        1referencia
        public virtual ICollection<Artist> Artist { get; set; }
        1referencia
        public virtual ICollection<Product> Product { get; set; }
    }
}
```

CreditCard

```
namespace TiendaDeMujica.Models
{
    1referencia
    public class CreditCard
    {
        //credit
        0referencias
        public int Id { get; set; }

        0referencias
        public DateTime DateBirth { get; set; }

        0referencias
        public string CreditCardNumber { get; set; }

        0referencias
        public virtual User Username { get; set; }
    }
}
```




TIENDA DE MÚJICA

MODELOS



Format

```
namespace TiendaDeMujica.Models
{
    2 referencias
    public class Format
    {
        0 referencias
        public int Id { get; set; }
        0 referencias
        public string TypeCode { get; set; }
        0 referencias
        public string Type { get; set; }

        0 referencias
        public virtual ICollection<ProductFormat> ProductFormat { get; set; }
    }
}
```

Genre

```
namespace TiendaDeMujica.Models
{
    5 referencias
    public class Genre
    {
        1 referencia
        public int Id { get; set; }
        0 referencias
        public string GenreName { get; set; }
    }
}
```




TIENDA DE MÚJICA

MODELOS



Order

```
namespace TiendaDeMujica.Models
{
    3 referencias
    public class Order
    {
        1 referencia
        public int Id { get; set; }

        1 referencia
        public decimal Total { get; set; }

        1 referencia
        public string Status { get; set; }

        0 referencias
        public virtual Address IdAddress { get; set; }

        1 referencia
        public virtual User Username { get; set; }

        //order
    }
}
```

OrderProduct

```
namespace TiendaDeMujica.Models
{
    1 referencia
    public class OrderProduct
    {
        0 referencias
        public int Id { get; set; }

        0 referencias
        public int IdProduct { get; set; }

        0 referencias
        public string IdOrder { get; set; }

        0 referencias
        public virtual Order Order { get; set; }

        0 referencias
        public virtual Product Product { get; set; }
    }
}
```



TIENDA DE MÚJICA

MODELOS



Photos

```
namespace TiendaDeMujica.Models
{
    2 referencias
    public class Photos
    {
        1 referencia
        public int Id { get; set; }
        1 referencia
        public int IdProduct { get; set; }
        1 referencia
        public string Image { get; set; }
        1 referencia
        public virtual Product Product { get; set; }
    }
}
```

Product

```
namespace TiendaDeMujica.Models
{
    4 referencias
    public class Product
    {
        0 referencias
        public int Id { get; set; }
        0 referencias
        public string Name { get; set; }
        0 referencias
        public float Price { get; set; }
        0 referencias
        public string? Description { get; set; }
        0 referencias
        public bool Active { get; set; }

        0 referencias
        public int IdGenre { get; set; }

        0 referencias
        public virtual ICollection<ShoppingCart> ShoppingCart { get; set; }
        0 referencias
        public virtual ICollection<OrderProduct> OrderProduct { get; set; }
        0 referencias
        public virtual ICollection<ArtistProduct> ArtistProduct { get; set; }
        0 referencias
        public virtual ICollection<ProductFormat> ProductFormat { get; set; }
        1 referencia
        public virtual ICollection<Photos> Photos { get; set; }

        0 referencias
        public virtual Genre Genre { get; set; }
    }
}
```



TIENDA DE MÚJICA

MODELOS



ProductFormat

```
namespace TiendaDeMujica.Models
{
    public class ProductFormat
    {
        public int Id { get; set; }
        0 referencias
        public int IdProduct { get; set; }
        0 referencias
        public int IdFormat { get; set; }

        0 referencias
        public virtual Product Product { get; set; }
        0 referencias
        public virtual Format Format { get; set; }
    }
}
```

ShoppingCart

```
namespace TiendaDeMujica.Models
{
    2 referencias
    public class ShoppingCart
    {
        0 referencias
        public int Id { get; set; }
        0 referencias
        public int IdProduct { get; set; }
        0 referencias
        public string Username { get; set; }
        0 referencias
        public virtual User User { get; set; }
        0 referencias
        public virtual User Product { get; set; }
    }
}
```




TIENDA DE MÚJICA

MODELOS



User

```
namespace TiendaDeMujica.Models
{
    public class User
    {
        public string Username { get; set; }
        0 referencias
        public string Name { get; set; }
        0 referencias
        public string Password { get; set; }
        0 referencias
        public string Email { get; set; }
        0 referencias
        public string? PhoneNumber { get; set; }
        0 referencias
        public bool Active { get; set; }
        1 referencia
        public virtual ICollection<Address> Address { get; set; }
        1 referencia
        public virtual ICollection<Order> Order { get; set; }
        0 referencias
        public virtual ICollection<ShoppingCart> ShoppingCart { get; set; }
        0 referencias
        public virtual ICollection<CreditCard> CreditCard { get; set; }
    }
}
```



TIENDA DE MÚJICA

DbContext



```
6 referencias
public class TiendaDeMujicaDbContext : DbContext
{
    //public DbSet<> { get; set; }

    0 referencias
    public DbSet<Format> Format { get; set; }

    1 referencia
    public DbSet<Genre> Genre { get; set; }

    0 referencias
    public DbSet<ProductFormat> ProductFormat { get; set; }

    0 referencias
    public TiendaDeMujicaDbContext()
    {
    }

    0 referencias
    public TiendaDeMujicaDbContext(DbContextOptions<TiendaDeMujicaDbContext> options) : base(options) { }

    0 referencias
    protected override void OnModelCreating(ModelBuilder modelBuilder)
    {
        modelBuilder.Entity<Address>(entity =>...);
        modelBuilder.Entity<Artist>(entity =>...);
        modelBuilder.Entity<ArtistProduct>(entity =>...);
        modelBuilder.Entity<CreditCard>(entity =>...);
        modelBuilder.Entity<Format>(entity =>...);
        modelBuilder.Entity<Genre>(entity =>...);
        modelBuilder.Entity<Order>(entity =>...);
        modelBuilder.Entity<OrderProduct>(entity =>...);
        modelBuilder.Entity<Photos>(entity =>...);
        modelBuilder.Entity<Product>(entity =>...);
        modelBuilder.Entity<ProductFormat>(entity =>...);
        modelBuilder.Entity<ShoppingCart>(entity =>...);
        modelBuilder.Entity<User>(entity =>...);
    }
}
```