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**AHMET YESEVİ ÜNİVERSİTESİ**

**BİLGİSAYAR MÜHENDİSLİĞİ LİSANS**

**TBML - 304**

**Veritabanı Yönetim Sistemleri**

**HAZIRLAYAN**

**HASAN AYGIR - 142132079**

**Öğretim Görevlisi**

**Yrd. Doç. Dr. Battal GÖLDAĞ**



1. **Varlıkları Tablolara, Nitelikleri Tabloların Sütunlarına Dönüştürünüz.**

**Primary Key**

**Foreign Key**

Müşteri: (**Mus\_Id**, Ad, Soyad, Tel\_No, E\_Mail )

Sipariş: (**Siparis\_Id**, Siparis\_TarihSaat, Teslim\_TarihSaat, Toplam\_Fiyat, **Musteri\_Id** )

Yemek: (**Yemek\_Id**, Ad, Fiyat )

Piza: (**Piza\_Id**, Ad, Fiyat )

İçindekiler: (**Icerik\_Id**, Ad, Fiyat )

Piza\_İçindekiler: **(Id**, **Piza\_Id**, **Icerik\_Id** )

Piza\_Siparişleri: (**Id**, **Siparis\_Id**, **Piza\_Id** )

Yemek\_İçindekiler: (**Id**, **Icerik\_Id**, **Yemek\_Id** )

Yemek\_Siparişleri: ( **Id**, **Siparis\_Id**, **Yemek\_Id**)



**b) Birincil (Primary Key) ve Dış (Foreign Key) Anahtarları Belirleyiniz.**



-**PK**= Primary Key (Birincil Anahtar) -**FK**= Foreign Key (Dış Anahtar)

**c) SQL komutları kullanarak veri tabanını, tabloları oluşturunuz ve kısıtlayıcıları (Primary Key, Foreign Key) tanımlayınız**

USE [master]

GO

/\*\*\*\*\*\* Object: Database [SIPARIS] Script Date: 11.12.2018 20:30:24 \*\*\*\*\*\*/

CREATE DATABASE [SIPARIS]

 CONTAINMENT = NONE

 ON PRIMARY

( NAME = N'SIPARIS', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\DATA\SIPARIS.mdf' , SIZE = 8192KB , MAXSIZE = UNLIMITED, FILEGROWTH = 65536KB )

 LOG ON

( NAME = N'SIPARIS\_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL14.MSSQLSERVER\MSSQL\DATA\SIPARIS\_log.ldf' , SIZE = 8192KB , MAXSIZE = 2048GB , FILEGROWTH = 65536KB )

GO

USE [SIPARIS]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Icindekiler] Script Date: 11.12.2018 20:30:24 \*\*\*\*\*\*/

CREATE TABLE [dbo].[Icindekiler](

 [Icerik\_Id] [bigint] IDENTITY(1,1) NOT NULL,

 [Ad] [nvarchar](max) NOT NULL,

 [Fiyat] [money] NOT NULL,

 CONSTRAINT [PK\_Icindekiler] PRIMARY KEY CLUSTERED

(

 [Icerik\_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] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[Musteri] Script Date: 11.12.2018 20:30:25 \*\*\*\*\*\*/

CREATE TABLE [dbo].[Musteri](

 [Mus\_Id] [bigint] IDENTITY(1,1) NOT NULL,

 [Ad] [nvarchar](50) NOT NULL,

 [Soyad] [nvarchar](100) NOT NULL,

 [Tel\_No] [nvarchar](25) NOT NULL,

 [E\_Mail] [nvarchar](100) NOT NULL,

 CONSTRAINT [PK\_Musteri] PRIMARY KEY CLUSTERED

(

 [Mus\_Id] ASC

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

 CONSTRAINT [IX\_Musteri] UNIQUE NONCLUSTERED

(

 [E\_Mail] 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].[Piza] Script Date: 11.12.2018 20:30:25 \*\*\*\*\*\*/

CREATE TABLE [dbo].[Piza](

 [Piza\_Id] [bigint] IDENTITY(1,1) NOT NULL,

 [Ad] [nvarchar](250) NOT NULL,

 [Fiyat] [money] NOT NULL,

 CONSTRAINT [PK\_Piza] PRIMARY KEY CLUSTERED

(

 [Piza\_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].[Piza\_Icindekiler] Script Date: 11.12.2018 20:30:25 \*\*\*\*\*\*/

CREATE TABLE [dbo].[Piza\_Icindekiler](

 [Piza\_Id] [bigint] NOT NULL,

 [Icerik\_Id] [bigint] NOT NULL,

 CONSTRAINT [PK\_Piza\_Icindekiler] PRIMARY KEY CLUSTERED

(

 [Piza\_Id] ASC,

 [Icerik\_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].[Piza\_Siparisleri] Script Date: 11.12.2018 20:30:25 \*\*\*\*\*\*/

CREATE TABLE [dbo].[Piza\_Siparisleri](

 [Id] [bigint] IDENTITY(1,1) NOT NULL,

 [Siparis\_Id] [bigint] NOT NULL,

 [Piza\_Id] [bigint] NOT NULL,

 CONSTRAINT [PK\_Piza\_Siparisleri] 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].[Siparis] Script Date: 11.12.2018 20:30:25 \*\*\*\*\*\*/

CREATE TABLE [dbo].[Siparis](

 [Siparis\_Id] [bigint] IDENTITY(1,1) NOT NULL,

 [Siparis\_TarihSaat] [datetime] NOT NULL,

 [Teslim\_TarihSaat] [datetime] NULL,

 [Toplam\_Fiyat] [money] NOT NULL,

 [Musteri\_Id] [bigint] NOT NULL,

 CONSTRAINT [PK\_Siparis] PRIMARY KEY CLUSTERED

(

 [Siparis\_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].[Yemek] Script Date: 11.12.2018 20:30:25 \*\*\*\*\*\*/

CREATE TABLE [dbo].[Yemek](

 [Yemek\_Id] [bigint] IDENTITY(1,1) NOT NULL,

 [Ad] [nvarchar](250) NULL,

 [Fiyat] [money] NULL,

 CONSTRAINT [PK\_Yemek] PRIMARY KEY CLUSTERED

(

 [Yemek\_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].[Yemek\_Icindekiler] Script Date: 11.12.2018 20:30:25 \*\*\*\*\*\*/

CREATE TABLE [dbo].[Yemek\_Icindekiler](

 [Icerik\_Id] [bigint] NOT NULL,

 [Yemek\_Id] [bigint] NOT NULL,

 CONSTRAINT [PK\_Yemek\_Icindekiler] PRIMARY KEY CLUSTERED

(

 [Icerik\_Id] ASC,

 [Yemek\_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].[Yemek\_Siparisleri] Script Date: 11.12.2018 20:30:25 \*\*\*\*\*\*/

CREATE TABLE [dbo].[Yemek\_Siparisleri](

 [Id] [bigint] IDENTITY(1,1) NOT NULL,

 [Siparis\_Id] [bigint] NOT NULL,

 [Yemek\_Id] [bigint] NOT NULL,

 CONSTRAINT [PK\_Yemek\_Siparisleri] 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].[Siparis] ADD CONSTRAINT [DF\_Siparis\_Siparis\_TarihSaat] DEFAULT (getdate()) FOR [Siparis\_TarihSaat]

GO

ALTER TABLE [dbo].[Piza\_Icindekiler] WITH CHECK ADD CONSTRAINT [FK\_Piza\_Icindekiler\_Icindekiler] FOREIGN KEY([Icerik\_Id])

REFERENCES [dbo].[Icindekiler] ([Icerik\_Id])

GO

ALTER TABLE [dbo].[Piza\_Icindekiler] CHECK CONSTRAINT [FK\_Piza\_Icindekiler\_Icindekiler]

GO

ALTER TABLE [dbo].[Piza\_Icindekiler] WITH CHECK ADD CONSTRAINT [FK\_Piza\_Icindekiler\_Piza] FOREIGN KEY([Piza\_Id])

REFERENCES [dbo].[Piza] ([Piza\_Id])

GO

ALTER TABLE [dbo].[Piza\_Icindekiler] CHECK CONSTRAINT [FK\_Piza\_Icindekiler\_Piza]

GO

ALTER TABLE [dbo].[Piza\_Siparisleri] WITH CHECK ADD CONSTRAINT [FK\_Piza\_Siparisleri\_Piza] FOREIGN KEY([Piza\_Id])

REFERENCES [dbo].[Piza] ([Piza\_Id])

GO

ALTER TABLE [dbo].[Piza\_Siparisleri] CHECK CONSTRAINT [FK\_Piza\_Siparisleri\_Piza]

GO

ALTER TABLE [dbo].[Piza\_Siparisleri] WITH CHECK ADD CONSTRAINT [FK\_Piza\_Siparisleri\_Siparis] FOREIGN KEY([Siparis\_Id])

REFERENCES [dbo].[Siparis] ([Siparis\_Id])

GO

ALTER TABLE [dbo].[Piza\_Siparisleri] CHECK CONSTRAINT [FK\_Piza\_Siparisleri\_Siparis]

GO

ALTER TABLE [dbo].[Siparis] WITH CHECK ADD CONSTRAINT [FK\_Siparis\_Musteri] FOREIGN KEY([Musteri\_Id])

REFERENCES [dbo].[Musteri] ([Mus\_Id])

GO

ALTER TABLE [dbo].[Siparis] CHECK CONSTRAINT [FK\_Siparis\_Musteri]

GO

ALTER TABLE [dbo].[Yemek\_Icindekiler] WITH CHECK ADD CONSTRAINT [FK\_Yemek\_Icindekiler\_Icindekiler] FOREIGN KEY([Icerik\_Id])

REFERENCES [dbo].[Icindekiler] ([Icerik\_Id])

GO

ALTER TABLE [dbo].[Yemek\_Icindekiler] CHECK CONSTRAINT [FK\_Yemek\_Icindekiler\_Icindekiler]

GO

ALTER TABLE [dbo].[Yemek\_Icindekiler] WITH CHECK ADD CONSTRAINT [FK\_Yemek\_Icindekiler\_Yemek] FOREIGN KEY([Yemek\_Id])

REFERENCES [dbo].[Yemek] ([Yemek\_Id])

GO

ALTER TABLE [dbo].[Yemek\_Icindekiler] CHECK CONSTRAINT [FK\_Yemek\_Icindekiler\_Yemek]

GO

ALTER TABLE [dbo].[Yemek\_Siparisleri] WITH CHECK ADD CONSTRAINT [FK\_Yemek\_Siparisleri\_Siparis] FOREIGN KEY([Siparis\_Id])

REFERENCES [dbo].[Siparis] ([Siparis\_Id])

GO

ALTER TABLE [dbo].[Yemek\_Siparisleri] CHECK CONSTRAINT [FK\_Yemek\_Siparisleri\_Siparis]

GO

ALTER TABLE [dbo].[Yemek\_Siparisleri] WITH CHECK ADD CONSTRAINT [FK\_Yemek\_Siparisleri\_Yemek] FOREIGN KEY([Yemek\_Id])

REFERENCES [dbo].[Yemek] ([Yemek\_Id])

GO

ALTER TABLE [dbo].[Yemek\_Siparisleri] CHECK CONSTRAINT [FK\_Yemek\_Siparisleri\_Yemek]

GO