**Bài Ôn Thi – Nguyễn Đình Nhật Huy – Nhóm 2**

**Câu 1:**

a.

CREATE TABLE [dbo].[XE](

[MaXe] [nvarchar](10) NOT NULL,

[TenXe] [nvarchar](255) NULL,

[Gia] [money] NULL,

[ThoiGianBaoHanh] [numeric](18, 0) NULL,

[NhaSX] [nvarchar](50) NULL,

CONSTRAINT [PK\_XE] PRIMARY KEY CLUSTERED

(

[MaXe] 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

b.

CREATE TABLE [dbo].[KHACHHANG](

[MaKhachHang] [nvarchar](10) NOT NULL,

[TenKhachHang] [nvarchar](80) NULL,

[GioiTinh] [bit] NULL,

[NgaySinh] [date] NULL,

[QueQuan] [nvarchar](50) NULL,

CONSTRAINT [PK\_KHACHHANG] PRIMARY KEY CLUSTERED

(

[MaKhachHang] 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

c.

CREATE TABLE [dbo].[DONHANG](

[MaDonHang] [nvarchar](10) NOT NULL,

[MaXe] [nvarchar](10) NOT NULL,

[GiaBan] [money] NULL,

[MaKhachHang] [nvarchar](10) NOT NULL,

[NgayBan] [date] NULL,

CONSTRAINT [PK\_DONHANG] PRIMARY KEY CLUSTERED

(

[MaDonHang] 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

**Tạo mối quan hệ:**

ALTER TABLE [dbo].[DONHANG] WITH CHECK ADD CONSTRAINT [FK\_DONHANG\_KHACHHANG] FOREIGN KEY([MaKhachHang])

REFERENCES [dbo].[KHACHHANG] ([MaKhachHang])

GO

ALTER TABLE [dbo].[DONHANG] CHECK CONSTRAINT [FK\_DONHANG\_KHACHHANG]

GO

ALTER TABLE [dbo].[DONHANG] WITH CHECK ADD CONSTRAINT [FK\_DONHANG\_XE] FOREIGN KEY([MaXe])

REFERENCES [dbo].[XE] ([MaXe])

GO

ALTER TABLE [dbo].[DONHANG] CHECK CONSTRAINT [FK\_DONHANG\_XE]

GO

**Câu 2:**

a.

INSERT [dbo].[XE] ([MaXe], [TenXe], [Gia], [ThoiGianBaoHanh], [NhaSX]) VALUES (N'B001', N'BMW i8 Coupe', 780000.0000, CAST(48 AS Numeric(18, 0)), N'BMW')

INSERT [dbo].[XE] ([MaXe], [TenXe], [Gia], [ThoiGianBaoHanh], [NhaSX]) VALUES (N'B002', N'BMW 320i', 1499000.0000, CAST(36 AS Numeric(18, 0)), N'BMW')

INSERT [dbo].[XE] ([MaXe], [TenXe], [Gia], [ThoiGianBaoHanh], [NhaSX]) VALUES (N'F001', N'Ford Everest Titanium 2.0L AT', 14680000.0000, CAST(48 AS Numeric(18, 0)), N'Ford')

INSERT [dbo].[XE] ([MaXe], [TenXe], [Gia], [ThoiGianBaoHanh], [NhaSX]) VALUES (N'F002', N'Ford Ranger Raptor', 12990000.0000, CAST(24 AS Numeric(18, 0)), N'Ford')

INSERT [dbo].[XE] ([MaXe], [TenXe], [Gia], [ThoiGianBaoHanh], [NhaSX]) VALUES (N'F003', N'Ford Ecosport 1.5 AT', 6030000.0000, CAST(36 AS Numeric(18, 0)), N'Ford')

INSERT [dbo].[XE] ([MaXe], [TenXe], [Gia], [ThoiGianBaoHanh], [NhaSX]) VALUES (N'H001', N'Honda City G', 5590000.0000, CAST(24 AS Numeric(18, 0)), N'Honda')

INSERT [dbo].[XE] ([MaXe], [TenXe], [Gia], [ThoiGianBaoHanh], [NhaSX]) VALUES (N'H002', N'Honda Civic E', 770000.0000, CAST(48 AS Numeric(18, 0)), N'Honda')

INSERT [dbo].[XE] ([MaXe], [TenXe], [Gia], [ThoiGianBaoHanh], [NhaSX]) VALUES (N'HY01', N'Hyundai Tucson 2.0', 8790000.0000, CAST(36 AS Numeric(18, 0)), N'Hyundai')

INSERT [dbo].[XE] ([MaXe], [TenXe], [Gia], [ThoiGianBaoHanh], [NhaSX]) VALUES (N'HY02', N'Hyundai SantaFe 2.5 AT', 1210000.0000, CAST(12 AS Numeric(18, 0)), N'Honda')

INSERT [dbo].[XE] ([MaXe], [TenXe], [Gia], [ThoiGianBaoHanh], [NhaSX]) VALUES (N'M001', N'Mercedes S400', 3999000.0000, CAST(48 AS Numeric(18, 0)), N'Mercedes-Benz')

INSERT [dbo].[XE] ([MaXe], [TenXe], [Gia], [ThoiGianBaoHanh], [NhaSX]) VALUES (N'M002', N'Mercedes GLC200', 2299000.0000, CAST(36 AS Numeric(18, 0)), N'Mercedes-Benz')

b.

INSERT [dbo].[KHACHHANG] ([MaKhachHang], [TenKhachHang], [GioiTinh], [NgaySinh], [QueQuan]) VALUES (N'HHDK', N'Hoàng Nguyễn Hải Đăng Khoa', 1, CAST(N'2004-07-28' AS Date), N'Thành phố Huế')

INSERT [dbo].[KHACHHANG] ([MaKhachHang], [TenKhachHang], [GioiTinh], [NgaySinh], [QueQuan]) VALUES (N'HPNL', N'Hoàng Phúc Nhật Long', 1, CAST(N'2004-07-19' AS Date), N'TT Huế')

INSERT [dbo].[KHACHHANG] ([MaKhachHang], [TenKhachHang], [GioiTinh], [NgaySinh], [QueQuan]) VALUES (N'LDKD', N'Lê Đức Khánh Duy', 1, CAST(N'2003-01-11' AS Date), N'Đà Nẵng')

INSERT [dbo].[KHACHHANG] ([MaKhachHang], [TenKhachHang], [GioiTinh], [NgaySinh], [QueQuan]) VALUES (N'LTLM', N'Lê Thanh Linh', 1, CAST(N'2004-04-13' AS Date), N'Quảng Trị')

INSERT [dbo].[KHACHHANG] ([MaKhachHang], [TenKhachHang], [GioiTinh], [NgaySinh], [QueQuan]) VALUES (N'TNHP', N'Tôn Nữ Hồng Phương', 0, CAST(N'2002-02-28' AS Date), N'Đà Nẵng')

INSERT [dbo].[KHACHHANG] ([MaKhachHang], [TenKhachHang], [GioiTinh], [NgaySinh], [QueQuan]) VALUES (N'VHPT', N'Võ Hoàng Phúc Thịnh', 1, CAST(N'2004-11-18' AS Date), N'TT Huế')

INSERT [dbo].[KHACHHANG] ([MaKhachHang], [TenKhachHang], [GioiTinh], [NgaySinh], [QueQuan]) VALUES (N'VTTT', N'Võ Thị Thanh Tâm', 0, CAST(N'2003-12-27' AS Date), N'Quảng Trị')

INSERT [dbo].[KHACHHANG] ([MaKhachHang], [TenKhachHang], [GioiTinh], [NgaySinh], [QueQuan]) VALUES (N'VTV1', N'Vũ Thanh Vân', 0, CAST(N'2002-04-17' AS Date), N'Đà Nẵng')

c.

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B001', N'F003', 610000.0000, N'VTTT', CAST(N'2023-07-14' AS Date))

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B002', N'HY02', 120000.0000, N'HPNL', CAST(N'2022-12-28' AS Date))

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B003', N'B001', 785000.0000, N'VHPT', CAST(N'2024-01-23' AS Date))

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B004', N'H002', 781000.0000, N'HHDK', CAST(N'2023-06-12' AS Date))

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B005', N'M002', 228900.0000, N'VHPT', CAST(N'2023-07-30' AS Date))

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B006', N'M001', 400000.0000, N'LTLM', CAST(N'2022-08-13' AS Date))

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B007', N'B002', 147000.0000, N'TNHP', CAST(N'2022-03-17' AS Date))

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B009', N'F003', 650000.0000, N'LTLM', CAST(N'2023-08-14' AS Date))

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B010', N'HY02', 120000.0000, N'VTV1', CAST(N'2023-11-20' AS Date))

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B011', N'HY01', 900000.0000, N'VHPT', CAST(N'2022-10-17' AS Date))

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B012', N'M002', 280000.0000, N'HPNL', CAST(N'2024-01-31' AS Date))

INSERT [dbo].[DONHANG] ([MaDonHang], [MaXe], [GiaBan], [MaKhachHang], [NgayBan]) VALUES (N'B018', N'H002', 770000.0000, N'VTTT', CAST(N'2024-03-20' AS Date))

**Câu 3:**

select \*

from KHACHHANG

where TenKhachHang like N'Võ%'

go

****

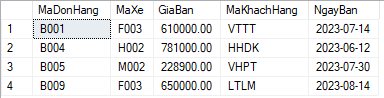
**Câu 4:**

select \*

from DONHANG

where (MONTH(NgayBan) between 5 and 9) and (YEAR(ngayban) = 2023)

go

****

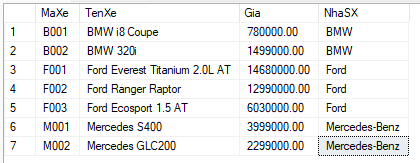
**Câu 5:**

select top 6 MaXe, TenXe, Gia, NhaSX

from XE

where NhaSX in (N'Ford', N'Mercedes-Benz', N'BMW')

order by Gia desc

****

**Câu 6:**

select XE.MaXe, TenXe, KHACHHANG.MaKhachHang, TenKhachHang, GiaBan, NgayBan

from DONHANG join XE on DONHANG.MaXe= XE.MaXe

join KHACHHANG on DONHANG.MaKhachHang = KHACHHANG.MaKhachHang

where GiaBan = (

select top 1 GiaBan

from DONHANG join XE on DONHANG.MaXe= XE.MaXe

join KHACHHANG on DONHANG.MaKhachHang = KHACHHANG.MaKhachHang

where YEAR(NgayBan) = 2023

order by Gia asc

)

****

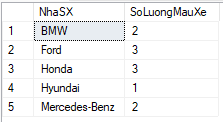
**Câu 7:**

select NhaSX, count(MaXe) as 'SoLuongMauXe'

from XE

group by NhaSX

go

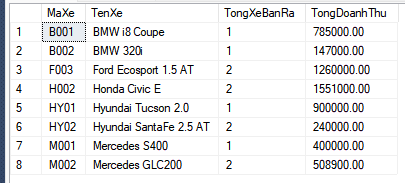
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**Câu 8:**

select x.MaXe, x.TenXe, count(x.MaXe) as 'TongXeBanRa', sum(GiaBan) as 'TongDoanhThu'

from DONHANG dh join XE x on dh.MaXe = x.MaXe

group by x.MaXe, x.TenXe

****

**Câu 9:**

select MaKhachHang, TenKhachHang, GioiTinh, QueQuan

from KHACHHANG

where right(QueQuan, 3) = (

select SUBSTRING(QueQuan, 4, 3)

from KHACHHANG

where MaKhachHang = N'HPNL'

)

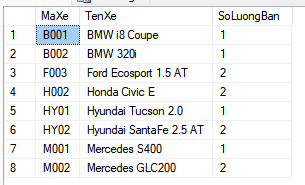


**Câu 10:**

select x.MaXe, x.TenXe, count(x.MaXe) as 'SoLuongBan'

from DONHANG dh join XE x on dh.MaXe = x.MaXe

group by x.MaXe, x.TenXe

****

**Câu 11:**

update XE

set Gia = Gia \* 1.1

where MaXe in (

select MaXe

from XE

where NhaSX = N'Ford'

)

**Câu 12:**

update XE

set TongSoBan = (

SELECT count(MaXe)

FROM DonHang

WHERE DonHang.MaXe = XE.MaXe

)