1.UYGULAMA

create database KodlabLtd

use KodlabLtd

create table musteri

(

musteriid int,

musterisad varchar(20) not null,

musterisoyad varchar(20),

tcno varchar(11),

adres varchar(200),

telefon varchar (11)

)

alter table musteri alter column musteriad Varchar(20)

alter table musteri alter column musterisoyad varchar(30)

alter table musteri alter column musteriid int not null

alter table musteri add constraint pk\_musteriid primary key (musteriid)

alter table musteri add cinsiyet varchar (1)

alter table musteri add constraint in\_cins check (cinsiyet in('E','K'))

alter table musteri add constraint chk\_tc check (len(tcno)=11)

alter table musteri alter column dogumtarihi smalldatetime

alter table musteri add email varchar(30)

alter table musteri drop column email

insert into musteri values ('2','kadir','abatay','11111111112','a','5435','E','7.9.2000')

select \* from musteri

create table Urun

(

urunid int identity (1,1) Primary key not null,

urunadi varchar(25) not null,

fiyat money,

birim varchar(15) default ('adet'),

miktar int

)

alter table urun add constraint chck\_pul check (fiyat>0)

select \* from urun

create table siparis

(

id int identity (1,1) Primary key not null,

musteriid int,

siparistarihi datetime default (getdate()),

teslimadresi varchar(250),

teslimedildimi bit default (1),

teslimtarihi datetime

)

create table siparis\_detay

(

id int identity (1,1) Primary key not null,

siparisid int,

urunid int,

miktar int,

satisfiati money

)

alter table siparis\_detay add toplamfiyat as(miktar\*satisfiati)

select \* from siparis\_detay

alter table siparis add constraint fk\_asd foreign key ( musteriid) references musteri(musteriid)

alter table siparis\_detay add constraint fk\_ass foreign key (siparisid) references siparis(id)

alter table siparis\_detay add constraint fk\_aaa foreign key (urunid) references Urun(urunid)

alter table siparis drop constraint fk\_asd

2 . Ugulama

create database kutuphane

use kutuphane

create table Kitap

(

kitapno int primary key,

kitapadı varchar(50) not null,

Isb\_no Varchar(13) not null,

sayfasayisi int ,

kitap\_özeti varchar

)

create table yazar

(

yazarNo int primary key not null,

adi varchar(50),

soyadi varchar(50),

dogum smalldatetime,

hayatözeti varchar

)

create table odunc

(

oduncno int primary key not null IDENTITY(1,1),

kitapNo int,

uyeNo int,

vermeTarihi DATE,

vermeSuresi smalldatetime,

geldiMi bit ,

)

create table uye

(

uyeNo int primary key not null IDENTITY(1000,1),

adi varchar,

adres varchar,

aktifmi bit,

)

create table tur

(

turNo int primary key,

tur\_Aciklama varchar

)

create table kitap\_tur

(

kitapNo int ,

turNo int,

)

create table kitap\_yazar

(

kitap\_yazarNo int primary key ,

yazarNo int ,

kitapNo int

)

alter table uye add telefonnumarası varchar(10)

alter table uye alter column adi varchar not null

alter table uye alter column adres varchar(300)

alter table yazar add tcno varchar(11)

alter table yazar add yas int

alter table yazar drop column yas

alter table kitap\_tur add constraint fk\_a foreign key (turNo) references tur(turNo)

alter table kitap\_tur add constraint fk\_ab foreign key (kitapNo) references kitap(kitapno)

alter table kitap\_yazar add constraint fk\_abc foreign key (yazarNo) references yazar(yazarNo)

alter table odunc add constraint fk\_abcd foreign key (kitapNo) references kitap(kitapno)

alter table odunc drop constraint fk\_abcd

alter table odunc add constraint fk\_abcde foreign key (kitapNo) references kitap(kitapno)

alter table odunc add constraint fk\_ou foreign key (uyeNo) references uye(uyeNo)

drop table tur

select \* from uye

select kitapadı,kitap\_özeti from Kitap

select \* from Kitap where sayfasayisi>100

select \* from yazar where adi like'k%'

3.UYGYLAMA

create database personel

use personel

create table personel

(

persno int primary key not null ,

ad varchar(50),

soy\_ad varchar(50),

cinsiyet varchar(50),

d\_tarih datetime,

bolum varchar(50),

kıdem int,

maas int

)

drop table personel

INSERT INTO personel (persno,ad,soy\_ad,cinsiyet,d\_tarih,bolum,kıdem,maas) VALUES (2344,'Ali','DEMİR','BAY','01.11.1967','BİLGİ İŞLEM',5,2200)

INSERT INTO personel (persno,ad,soy\_ad,cinsiyet,d\_tarih,bolum,kıdem,maas) VALUES (9088,'Ayşe','Vardal','BAYAN','04.06.1980','SATIŞ',6,2300)

INSERT INTO personel (persno,ad,soy\_ad,cinsiyet,d\_tarih,bolum,kıdem,maas) VALUES (1344, 'Ahmet', 'İNCE', 'BAY', '05.12.1962','MUHASEBE',13,4600)

INSERT INTO personel (persno,ad,soy\_ad,cinsiyet,d\_tarih,bolum,kıdem,maas) VALUES (5677, 'Mehmet', 'KOÇ', 'BAY','02.12.1962','BİLGİ İŞLEM',9,3300)

INSERT INTO personel (persno,ad,soy\_ad,cinsiyet,d\_tarih,bolum,kıdem,maas) VALUES (9133, 'Emel','YILMAZ', 'BAYAN', '12.12.1973', 'PERSONEL İŞLERİ',8,3500)

INSERT INTO personel (persno,ad,soy\_ad,cinsiyet,d\_tarih,bolum,kıdem,maas) VALUES (5400, 'Emie','KOZAN','BAY','01.09.1967','BİLGİ İŞLEM',8,2600)

INSERT INTO personel (persno,ad,soy\_ad,cinsiyet,d\_tarih,bolum,kıdem,maas) VALUES (5677,'Mete','KOÇOĞLU','BAY','02.11.1976','SATIŞ',9,3300)

INSERT INTO personel (persno,ad,soy\_ad,cinsiyet,d\_tarih,bolum,kıdem,maas) VALUES (2109,'Zeynep','TAŞDEMİR','BAYAN','30.11.1981','PERSONEL İŞLERİ',3,2000)

INSERT INTO personel (persno,ad,soy\_ad,cinsiyet,d\_tarih,bolum,kıdem,maas) VALUES (3088,'Funda','GÜLER', 'BAYAN', '09.09.1978', 'SATIŞ', 5,2200)

INSERT INTO personel (persno,ad,soy\_ad,cinsiyet,d\_tarih,bolum,kıdem,maas) VALUES (49987,'Emre','KURT','BAY','14.02.1975','PERSONEL İŞLERİ',6,2400)

select \*from personel

select ad,soy\_ad,bolum from personel

select \* from personel where cinsiyet='BAYAN'

select \* from personel where d\_tarih>’01.01.1977 ‘

select ad,soy\_ad,cinsiyet from personel where ad like 'E%'

select \* from personel where soy\_ad like '\_\_Ş%'

select \* from personel where maas>3500 and cinsiyet='BYAN' and bolum != 'SATIŞ'

select \* from personel where cinsiyet='BAYAN' and bolum ='SATIŞ'

select \* from personel where maas<3000 and soy\_ad ='%K%'

select \* from personel where cinsiyet='BAY' and bolum ='SATIŞ' or bolum='Muhasabe'

select \* from personel where maas between 3000 and 4000 or d\_tarih between ‘ 31.12.1975’ and ‘01.01.1978’

select \* from personel where cinsiyet='BAY' and bolum ='SATIŞ' or bolum='Muhasabe'

select \*from personel where ad like '%A%' and kıdem between 5 and 9 or bolum IN('Satış','Muhasebe') or cinsiyet='BAYAN'

select DISTINCT(bolum) from personel

select \*from personel order by kıdem asc

select \*from personel order by maas desc

select Top(5)\*from personel order by maas desc

select Top(3)\*from personel order by kıdem asc

select Top(5)\*from personel

4.uyuglama

select \* from personel

update personel set soyad='DEMİR' where ad='EMEL' and soyad='YILMAZ'

update personel set maas=maas+maas\*0.05 where kıdem>10

--Count,MAX,MIN,AVG,SUM

update personel set kıdem+=1

update personel set bolum='SATIŞ' where ad='Ahmet'

update personel set maas=maas+250 where maas<2500

delete from personel where ad='Emie'

select Count (\*) as 'pesonel sayısı' from personel

select Avg (maas) as 'Ortalama maas' from personel

select Min (maas) as 'Endüşük Maaş' from personel

select Min (d\_tarih) as 'En yaşlı Personel' from personel

select Sum (maas) as 'Toplam Maaş' from personel

select bolum,COUNT(\*) as 'Çalışan Sayısı' from personel group by bolum

select bolum,Sum(maas) as ' Toplam Maas' from personel group by bolum

select cinsiyet,COUNT(\*) as 'Çalışan Sayısı' from personel group by cinsiyet

select cinsiyet,Min(kıdem) as 'Kıdem Sayısı' from personel group by cinsiyet

select bolum,cinsiyet,COUNT(\*) as 'Çalışan Sayısı' from personel group by cinsiyet, bolum

NORTHWİND-1

use Northwind

select \* from Personeller where UnvanEki='Mr.' and Sehir='London'

select \* from Personeller where Adi like 'A%'

select \* from Personeller where Adi like '%K%'

select \* from Personeller where Adi not like 'A%'

select \* from Urunler where BirimFiyati between 25 and 30 and UrunAdi not like 'C%'

select \* from Urunler where TedarikciID>6 and Sonlandi=1

select \* from Musteriler where MusteriID like '[A-F]%' and Ulke ='Germany' or Ulke='Spain' or Ulke='USA' or Ulke ='Ireland'

select \* from Musteriler where Sehir= 'Leipzig' or Sehir= 'Anchorage' or Sehir= 'Paris' or Sehir= 'Köln' and MusteriUnvani='sales'

select MusteriID from Musteriler where Bolge is null and MusteriID like 'f%' or MusteriID like 'g%' MusteriID 'm%'

select \* from Personeller order by [Unvan],[Adi]

select Top(5) \* from urunler order by [BirimFiyati] DESC

select Sehir from Personeller group by Sehir

select sum (HedefStokDuzeyi) as 'HedefStokDuzeyı' from Urunler

select Count (\*) as 'pesonel sayısı' from personeller

select avg (BirimFiyati) as 'HedefStokDuzeyı' from Urunler

select avg (BirimFiyati) as 'HedefStokDuzeyı' from Urunler where UrunAdi like 'c%'

select min (BirimFiyati) as 'HedefStokDuzeyı' from Urunler

select COUNT(\*) as 'Ürün Sayısı' from Urunler group by KategoriID

select UrunAdi,COUNT(\*) as 'Ürün Sayısı' from Urunler where UrunAdi like '[a-k]%' group by KategoriID

select Avg(BirimFiyati) as 'Ürün Sayısı' from Urunler where KategoriID>3 group by KategoriID

select max(HedefStokDuzeyi) as 'Hedef' from Urunler where KategoriID=1 or KategoriID=2 or KategoriID=3

select MIN(BirimFiyati) as 'Ürün Sayısı' from Urunler where BirimFiyati<25 group by KategoriID

select sum(BirimFiyati) as 'toplam fiyat' from Urunler where UrunAdi like 'c%' and TedarikciID between 1 and 7

select max(BirimFiyati) as 'toplam fiyat' from [Satis Detaylari] where Miktar>35

select COUNT(\*) as 'Toplam Sayı' from Urunler where UrunID>10 group by UrunAdi

select COUNT(\*) as 'Toplam Sayı' from Urunler where UrunID>10 order by [Toplam Sayı]

select Miktar\*İndirim from [Satis Detaylari] where BirimFiyati<10

select Miktar\*İndirim as 'İndirim fiyatı' from [Satis Detaylari] where BirimFiyati<10 order by [İndirim fiyatı]

select KategoriID, Count(UrunID) as 'Urun Sayısı' from Urunler

group by KategoriID having Count(UrunID)>10

select KategoriID, Sum(BirimFiyati) as 'Toplam Birim Fiyatı'

from Urunler group by KategoriID

having Sum(BirimFiyati)>300

select u.TedarikciID,AVG(u.HedefStokDuzeyi) as 'Hedef Stok' from Urunler u

where u.UrunAdi like '%en%'

group by u.TedarikciID having AVG(u.HedefStokDuzeyi)>50

order by AVG(u.HedefStokDuzeyi) desc

select t.MusteriAdi,AVG(u.HedefStokDuzeyi) as 'Hedef Stok'

from Urunler u inner join Tedarikciler t on u.TedarikciID=t.TedarikciID

group by t.MusteriAdi

select k.KategoriAdi,Count(u.UrunID)

from Urunler u inner join Kategoriler k on u.KategoriID=k.KategoriID

group by k.KategoriAdi

use Northwind

select \* from [Satis Detaylari]

select s.PersonelID,count(PersonelID)

from Satislar s group by PersonelID

having count(PersonelID)>100 order by count(PersonelID) asc

select u.KategoriID,avg(u.BirimFiyati)

from Urunler u group by u.KategoriID having avg(u.BirimFiyati) >25

select s.SatisID,count(s.SatisID) from [Satis Detaylari] s

group by s.SatisID having count(s.SatisID)>20

select s.SatisID,count(s.SatisID),sum(s.Miktar) from [Satis Detaylari] s

where s.UrunID between 10 and 20

group by s.SatisID having count(s.SatisID)>20 and sum(s.Miktar)<50

----------------------------------------------------------------

select \* from Personeller

select PersonelID,count(SatisID),count(SatisID)\*0.1

from Satislar where YEAR(SatisTarihi)=1996

group by PersonelID

select p.IseBaslamaTarihi ,count(p.PersonelID)

from Personeller p group by p.IseBaslamaTarihi

having count(p.PersonelID)>=2

select count(PersonelID) from Personeller p where year(p.IseBaslamaTarihi)=1992 and Ulke='UK' and UnvanEki like '%s%'

select Top(1) IseBaslamaTarihi ,year(GETDATE())-YEAR(IseBaslamaTarihi) from Personeller order by IseBaslamaTarihi asc

Join Kullanımları (inner join - left join - right join)

select u.UrunAdi,t.MusteriAdi from urunler u inner join Tedarikciler t on u.TedarikciID=t.TedarikciID

select u.UrunAdi,t.SirketAdi from urunler u inner join Tedarikciler t on u.TedarikciID=t.TedarikciID where u.TedarikciID between 10 and 20

select count(u.UrunID) as 'sonuç' from urunler u inner join Tedarikciler t on u.TedarikciID=t.TedarikciID where t.SirketAdi='Exotic Liquids'

select count(u.UrunID),t.SirketAdi from urunler u inner join Tedarikciler t on u.TedarikciID=t.TedarikciID Group by t.SirketAdi having count(u.UrunID)>3 order by count(u.UrunID) asc

select k.KategoriAdi,count(u.UrunID) from Kategoriler k inner join Urunler u on u.KategoriID=k.KategoriID group by k.KategoriAdi

select count(u.UrunID) from Kategoriler k inner join Urunler u on u.KategoriID=k.KategoriID where k.KategoriAdi like '[c-v]%'

select count(s.SatisID) from Musteriler m inner join Satislar s on m.MusteriID=s.MusteriID where m.MusteriAdi='Alfreds Futterkiste' and m.MusteriAdi='Around the horn' and m.MusteriAdi='chop-suey chinese'

select k.KategoriAdi, count(u.UrunID) from Kategoriler k inner join Urunler u on k.KategoriID=u.KategoriID where k.KategoriID<5 and u.BirimFiyati<25 group by k.KategoriAdi

select k.KategoriAdi, count(u.UrunID) from Kategoriler k inner join Urunler u on k.KategoriID=u.KategoriID where u.HedefStokDuzeyi between 15 and 40 and u.UrunAdi like '[a-k]%' group by k.KategoriAdi

select t.TedarikciID, count(u.UrunID) from urunler u inner join Kategoriler k on u.KategoriID=k.KategoriID inner join Tedarikciler t on u.TedarikciID=t.TedarikciID where u.Sonlandi='1' and u.HedefStokDuzeyi<100 and u.BirimFiyati like '%boxes%' and KategoriAdi like '%[b-t]' group by t.TedarikciID

select k.KategoriAdi, count(u.UrunID) from urunler u inner join Kategoriler k on k.KategoriID=u.KategoriID group by k.KategoriAdi

select k.KategoriAdi, count(u.UrunID) from urunler u inner join Kategoriler k on k.KategoriID=u.KategoriID group by k.KategoriAdi having count(u.UrunID)>10

select k.KategoriAdi,sum(u.BirimFiyati) from urunler u inner join Kategoriler k on k.KategoriID=u.KategoriID group by k.KategoriAdi

select p.Adi,count(s.SatisID) from Satislar s inner join Personeller p on p.PersonelID=s.PersonelID group by p.Adi

select u.UrunAdi,k.KategoriAdi from urunler u inner join Kategoriler k on k.KategoriID=u.KategoriID inner join [Satis Detaylari] sd on sd.UrunID=u.UrunID inner join Satislar s on s.SatisID=sd.SatisID where year(s.SatisTarihi)=1998 and month(s.SatisTarihi)=4

select u.UrunAdi,k.KategoriAdi,t.SirketAdi from urunler u inner join Kategoriler k on u.KategoriID=k.KategoriID inner join Tedarikciler t on t.TedarikciID=u.TedarikciID

insert into Urunler(UrunAdi,BirimFiyati,HedefStokDuzeyi) values

('elma',20,90),

('armut',23,56)

insert into Urunler(UrunAdi,BirimFiyati,HedefStokDuzeyi,KategoriID) values

('x',20,90,3),

('y',23,56,3)

select \* from Urunler

select \* from Personeller

insert into Personeller(Adi,SoyAdi,Ulke) values

('A','B','USE'),

('Q','z','USE')

--hiç satılmayan ürünler

select \* from Urunler u left join [Satis Detaylari] sd on u.UrunID=sd.UrunID

where sd.UrunID is null

select COUNT(u.UrunID) from Urunler u left join [Satis Detaylari] sd on u.UrunID=sd.UrunID

where sd.UrunID is null

select \* from Personeller p left join Satislar sd on p.PersonelID=sd.PersonelID

where sd.PersonelID is null

select \* from Urunler u left join [Satis Detaylari] sd on u.UrunID=sd.UrunID

inner join Kategoriler k on u.KategoriID=k.KategoriID

where sd.UrunID is null and KategoriAdi='Confections'

select sum(u.BirimFiyati) from Urunler u left join [Satis Detaylari] sd on u.UrunID=sd.UrunID

where sd.UrunID is null

select \* from Urunler u left join [Satis Detaylari] sd on u.UrunID=sd.UrunID

where sd.UrunID is null and u.TedarikciID between 5 and 9 and u.BirimFiyati>50

select \* from Kitap k left join odunc o on k.kitapno=o.kitapNo

where o.oduncno is null

select \* from uye u left join odunc o on u.uyeNo=o.uyeNo

where u.uyeNo is null and