

NORMALİZASYON

(Üniversite Veri Tabanı

Uygulaması)

OgrNo	Ad	Soyad	Tel	Adres	Bolum	Sınıf	Ders	DersKredi	VizeNot	FinalNot	Ogretmen Ad	OgretmenSoyad	OgretmenTel
100	Enes	Kesik	1111111111	Atatürk Mah.	Bilgisayar Müh.	1	Veri Tabanı	4	50	60	Ali	Çelik	555 555 55 55
100	Enes	Kesik	1111111111	Atatürk Mah.	Bilgisayar Müh.	1	Algoritma	4	60	70	Okan	Kırhan	555 555 55 56
100	Enes	Kesik	1111111111	Atatürk Mah.	Bilgisayar Müh.	1	Mühendisliğe Giriş	2	70	80	Mesut	İlgin	555 555 55 57
103	Nurullah	Kılıç	1111111114	İstiklal Cad.	İnşaat Müh.	4	Matematik I	2	80	90	Burak	Aydın	555 555 55 58
104	Gülsüm	Manyas	1111111115	Atatürk Mah.	Genetik Müh.	1	Yapay Zeka	4	90	100	Yeliz	Uludağ	555 555 55 59
104	Gülsüm	Manyas	1111111115	Atatürk Mah.	Genetik Müh.	1	Matematik I	2	100	90	Burak	Aydın	555 555 55 58
106	Mehmet Fırat	Çelebi	1111111117	Atatürk Mah.	Harita Müh.	3	Fizik	2	90	80	İsmail	Kılıç	555 555 55 61
107	Halil İbrahim	Yıldırım	1111111118	İstiklal Cad.	Malzeme Müh.	4	Algoritma	4	80	70	Taha	Ekici	555 555 55 62

ad	Tel	Adres	Bolum	Sınıf	Ders	DersKredi	VizeNot	FinalNot	Ogretme
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TblOgrenci

OgrNo	Ad	Soyad	Tel	Adres	Bolum	Sınıf
100	Enes	Kesik	1111111111	Atatürk Mah.	Bilgisayar Müh.	1
103	Nurullah	Kılıç	1111111114	İstiklal Cad.	İnşaat Müh.	4
104	Gülsüm	Manyas	1111111115	Atatürk Mah.	Genetik Müh.	1
106	Mehmet Fırat	Çelebi	1111111117	Atatürk Mah.	Harita Müh.	3
107	Halil İbrahim	Yıldırım	1111111118	İstiklal Cad.	Malzeme Müh.	4

Tekrar eden verileri siliyoruz.

TbIAdres	
AdresID	AdresAdi
1	Atatürk Mah.
2	İstiklal Cad.

Tekrar eden verileri siliyoruz.

TblBolum	
BolumID	BolumAdi
1	Bilgisayar Müh.
2	İnşaat Müh.
3	Genetik Müh.
4	Harita Müh.
5	Malzeme Müh.

Tekrar eden verileri siliyoruz.

TbIDers		
DersID	Ders	DersKredi
1	Veri Tabanı	4
2	Algoritma	4
3	Mühendisliğe Giriş	2
4	Matematik I	2
5	Yapay Zeka	4
6	Fizik	2

Tekrar eden verileri siliyoruz.

TblOgretmen

OgretmenID	OgretmenAd	OgretmenSoyad	OgretmenTel
200	Ali	Çelik	555 555 55 55
201	Okan	Kırhan	555 555 55 56
202	Mesut	İlgin	555 555 55 57
203	Burak	Aydın	555 555 55 58
204	Yeliz	Uludağ	555 555 55 59
205	İsmail	Kılıç	555 555 55 61
206	Taha	Ekici	555 555 55 62

Tekrar eden verileri siliyoruz.

TbINot			
OgrenciNo	DersID	VizeNot	FinalNot
100	1	50	60
100	2	60	70
100	3	70	80
103	4	80	90
104	5	90	100
104	4	100	90
106	6	90	80
107	2	80	70

Tekrar eden verileri siliyoruz.

Object Explorer

Connect [Refresh] [Filter] [Refresh] [Refresh]

- DESKTOP-VBTUPEG\MSSQL (SQL Serve
 - Databases
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability
 - Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler

New Database [Close] [Maximize] [Minimize]

Select a page

- General
- Options
- Filegroups

Script [Help]

Database name: UniDB
 Owner: <default>

Use full-text indexing

Database files:

Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth / Maxsize	Pa
UniDB	ROWS...	PRIMARY	8	By 64 MB, Unlimited	C:
UniDB_log	LOG	Not Applicable	8	By 64 MB, Unlimited	C:

Connection

Server: DESKTOP-VBTUPEG\MSSQL
 Connection: DESKTOP-VBTUPEG\IBM
[View connection properties](#)

Progress

Ready

Add Remove

OK Cancel

Solution Explorer





Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Serve
 - Databases
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 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - New Database Diagram
 - Filter
 - Reports
 - Refresh
 - Tables
 - Views
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 - Synonyms
 - Programmabi
 - Service Broke
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
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 - Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler

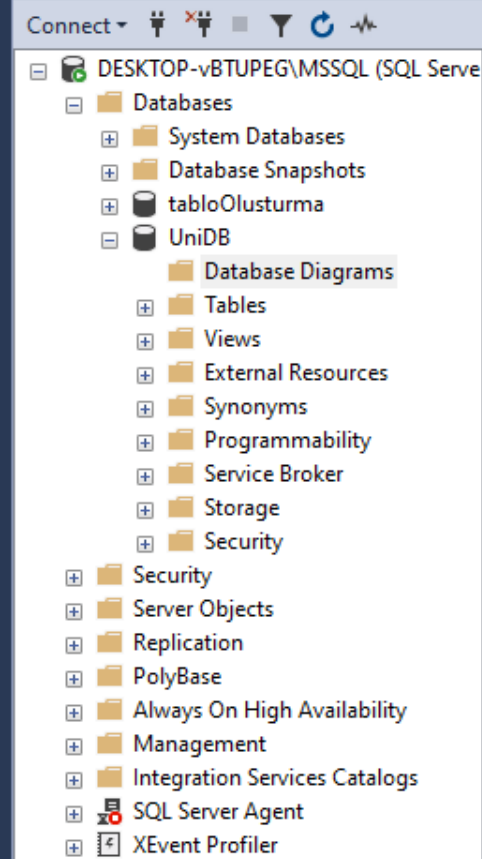
Solution Explorer

Navigation icons and a blank workspace area.

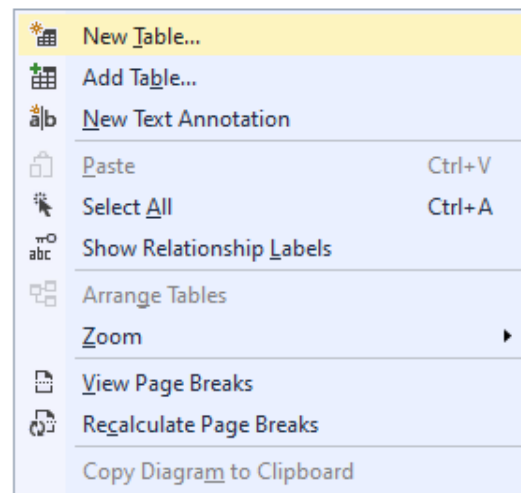
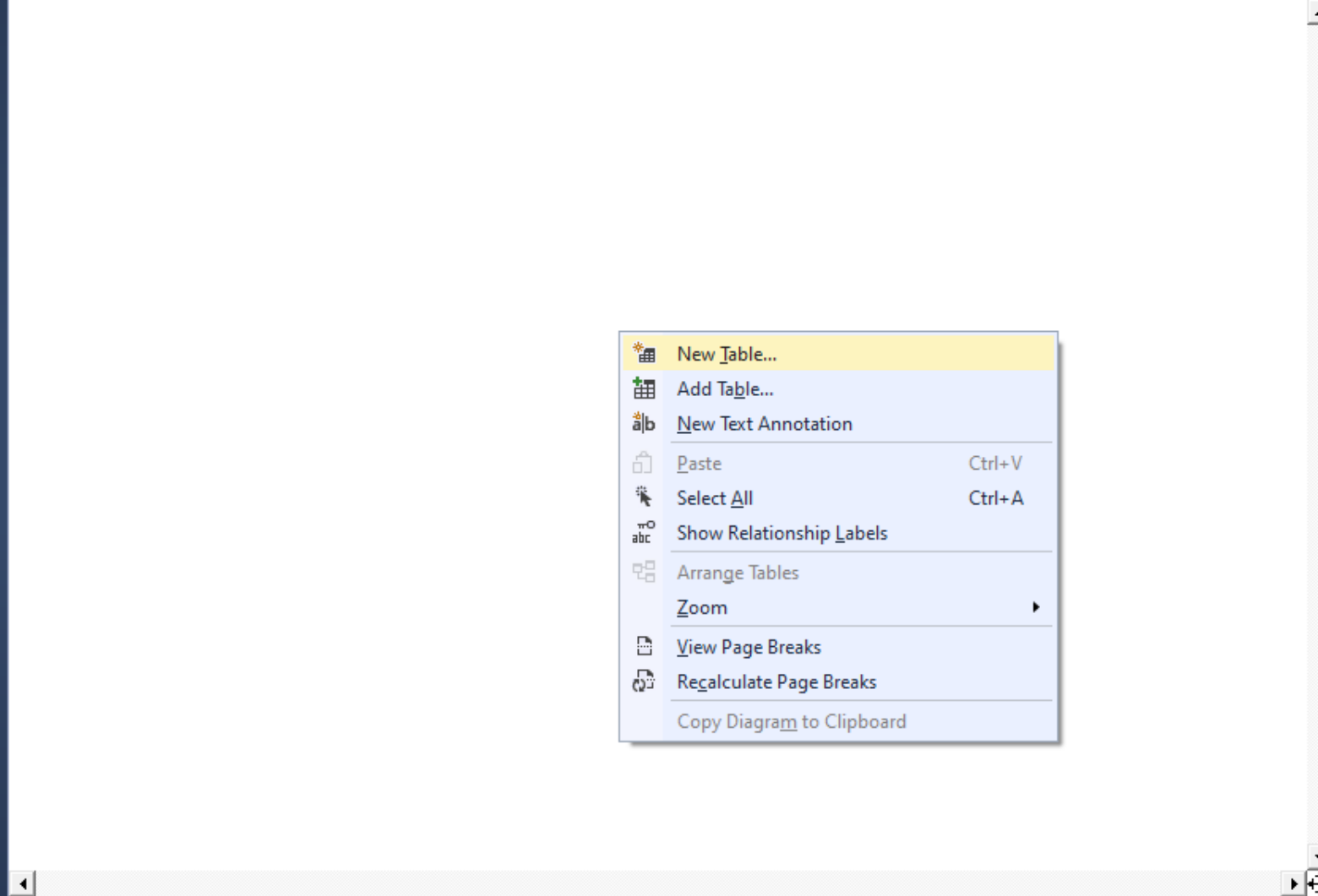
File Edit View Project Table Designer Tools Window Help



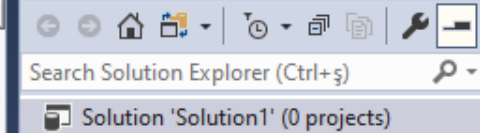
Object Explorer



DESKTOP-VBTUPEG\...UniDB - Diagram_0



Solution Explorer



Object Explorer

Connect [Server Icon] [Refresh] [Disconnect]

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- SQL Server Agent
- XEvent Profiler

DESKTOP-VBTUPEG\...UniDB - Diagram_0

Solution Explorer

Search Solution Explorer (Ctrl+Shift+F) [Search Icon]

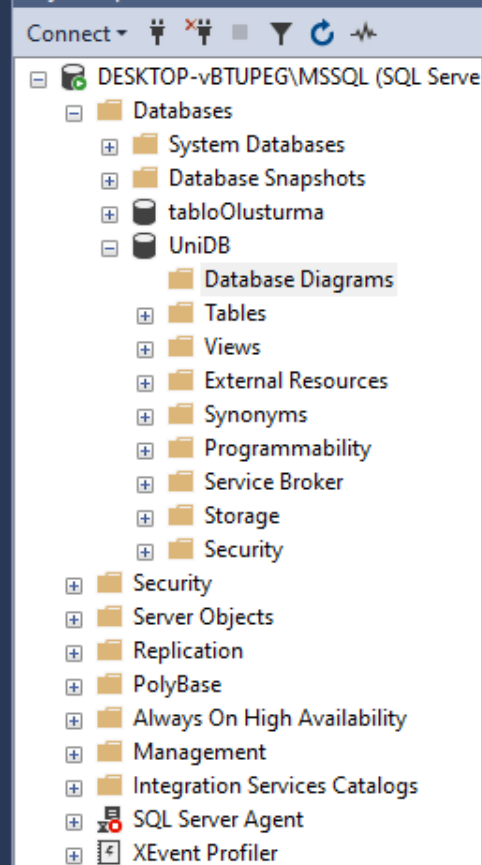
Solution 'Solution1' (0 projects)

Choose Name [?] [X]

Enter a name for the table:

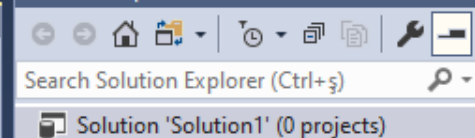
TblOgrenci

[OK] [Cancel]



Column Name	Data Type	Allow Nulls
OgrNo	int	<input type="checkbox"/>
OgrAd	nvarchar(50)	<input type="checkbox"/>
OgrSoyad	nvarchar(50)	<input type="checkbox"/>
Tel	char(11)	<input type="checkbox"/>
AdresID	int	<input type="checkbox"/>
BolumID	int	<input type="checkbox"/>
Sınıf	tinyint	<input type="checkbox"/>

Az sayıda sınıfımız olduğu için veri tipini **tinyint** olarak belirliyoruz.





Object Explorer

Connect [Icons]

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DESKTOP-VBTUPEG\...UniDB - Diagram_0* [Close]

Column Name	Data Type	Allow Nulls
ÖğrenciNo	int	<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>

TblOgrenci *

- Table View
- Set Primary Key**
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties Alt+Enter

Solution Explorer

Search Solution Explorer (Ctrl+Shift+F) [Search Icon]

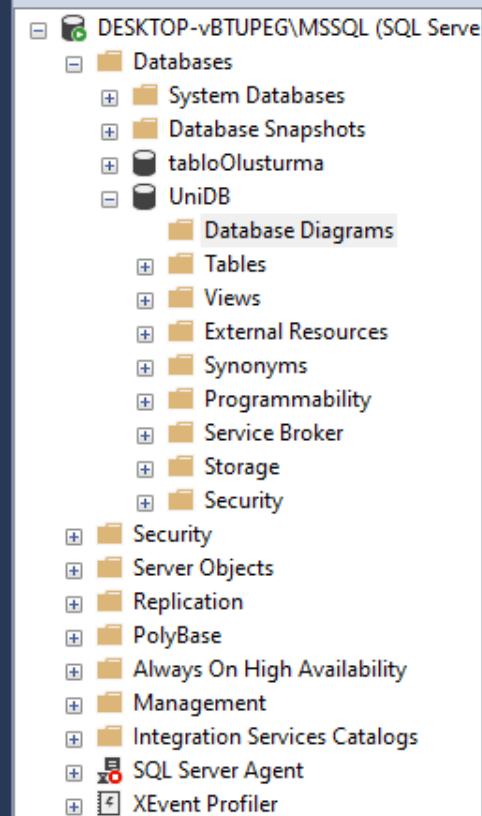
Solution 'Solution1' (0 projects)

File Edit View Project Table Designer Tools Window Help



Object Explorer

Connect



DESKTOP-VBTUPEG\...UniDB - Diagram_0* X

TblOgrenci *

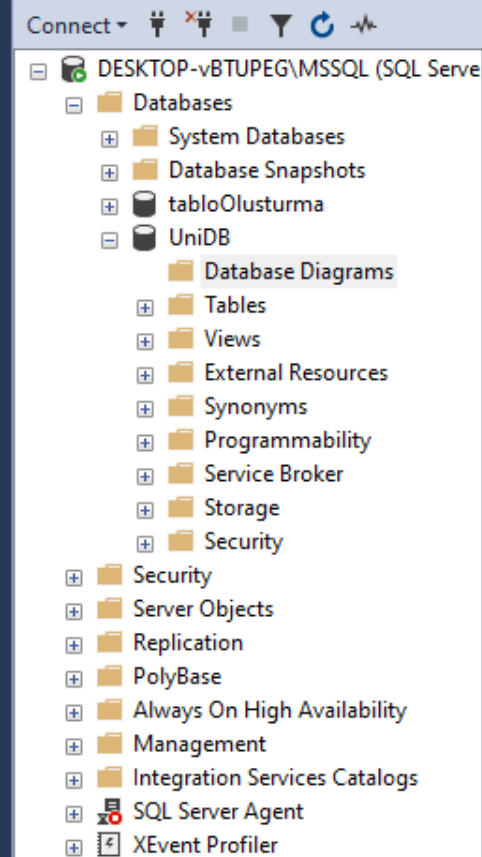
Column Name	Data Type	Allow Nulls
OgrNo	int	<input type="checkbox"/>

- Table View
- Remove Primary Key
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties Alt+Enter

Solution Explorer

Search Solution Explorer (Ctrl+Shift+F)

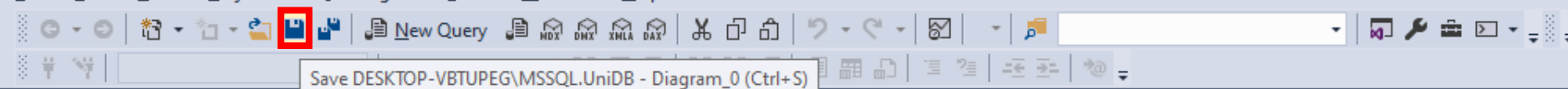
Solution 'Solution1' (0 projects)



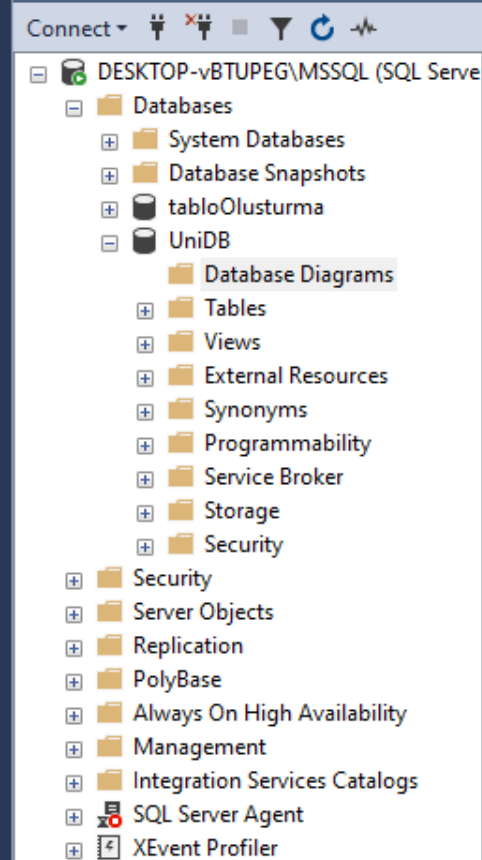
Column Name	Data Type	Allow Nulls
OgrNo	int	<input type="checkbox"/>
OgrAd	nvarchar(50)	<input type="checkbox"/>
OgrSoyad	nvarchar(50)	<input type="checkbox"/>
Tel	char(11)	<input type="checkbox"/>
AdresID	int	<input type="checkbox"/>
BolumID	int	<input type="checkbox"/>
Sinif	tinyint	<input type="checkbox"/>

[Col] OgrNo	
(General)	
(Name)	OgrNo
Allow Nulls	No
Data Type	int
Default Value or Bi	
Database Designer	
Collation	<database default>
Computed Colum	
Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No
Full-text Specifica	
Has Non-SQL Serv	No
Identity Specificat	
(Is Identity)	Yes
Identity Increm	1
Identity Seed	100
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No

Otomatik artışı etkinleştiriyoruz. Öğrenci numaralarının 100'den başlamasını istediğimiz için Seed değerini 100 olarak giriyoruz.



Object Explorer



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci *			
	Column Name	Data Type	Allow Nulls
?	OgrNo	int	<input type="checkbox"/>
	OgrAd	nvarchar(50)	<input type="checkbox"/>
	OgrSoyad	nvarchar(50)	<input type="checkbox"/>
	Tel	char(11)	<input type="checkbox"/>
	AdresID	int	<input type="checkbox"/>
	BolumID	int	<input type="checkbox"/>
	Sinif	tinyint	<input type="checkbox"/>
			<input type="checkbox"/>

Properties

[Col] OgrNo	
(General)	
(Name)	OgrNo
Allow Nulls	No
Data Type	int
Default Value or Bi	
Database Designer	
Collation	<database default>
Computed Colum	
Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No
Full-text Specifica	
Has Non-SQL Serv	No
Identity Specificat	
(Is Identity)	Yes
Identity Increm	1
Identity Seed	100
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No

Identity Seed

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DESKTOP-VBTUPEG\...UniDB - Diagram_0* X

TblOgrenci *

Choose Name

Enter a name for the diagram:

Diagram_0

OK Cancel

Properties

[Dgm] Diagram_0

(Identity)	
(Name)	Diagram_0
Database Designer	
Database Name	UniDB
Owner	dbo
Server Name	desktop-vbtupeg\mssql

(Identity)



Object Explorer

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DESKTOP-VBTUPEG\...UniDB - Diagram_0*

Column Name
OgrNo
OgrAd
OgrSoyad
Tel
AdresID
BolumID
Sinif

Context Menu:

- Table View
 - Standard
 - Column Names
 - Keys
 - Name Only
 - Custom
 - Modify Custom ...
- Remove Primary Key
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties (Alt+Enter)

Properties

[Col] OgrNo

(General)

(Name)	OgrNo
Allow Nulls	No
Data Type	int
Default Value or Bi	

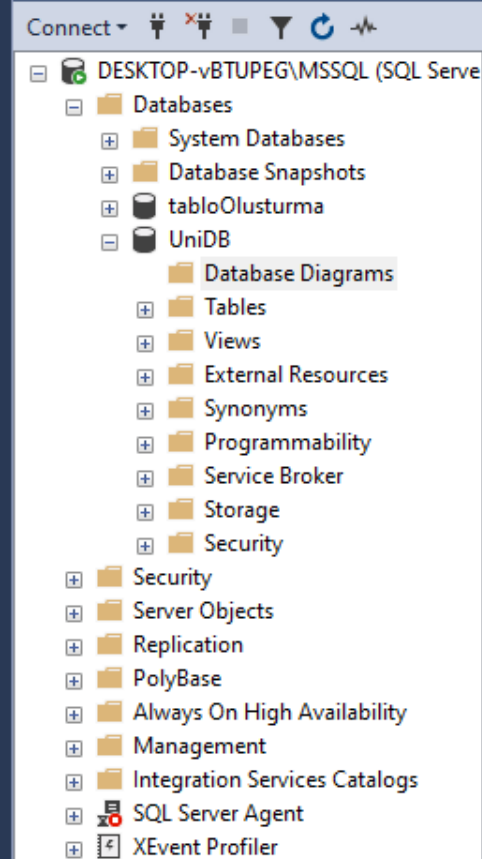
Database Designer

Collation	<database default>
Computed Colum	
Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No
Full-text Specifica	No
Has Non-SQL Serv	No
Identity Specificat	Yes
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No
RowGuid	No
Size	4

(General)



Object Explorer



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrnci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinif	

Properties

[Col] OgrNo	
(Name)	OgrNo
Allow Nulls	No
Data Type	int
Default Value or Bi	
Database Designer	
Collation	<database default>
Computed Column	
Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No
Full-text Specifica	
Has Non-SQL Serv	No
Identity Specificat	
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No
RowGuid	No
Size	4

(General)

File Edit View Project Table Designer Tools Window Help



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Connect

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DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sınıf	

- New Table...
- Add Table...
- New Text Annotation
- Paste Ctrl+V
- Select All Ctrl+A
- Show Relationship Labels
- Arrange Tables
- Zoom
- View Page Breaks
- Recalculate Page Breaks
- Copy Diagram to Clipboard

Properties

[Dgm] Diagram_0

(Identity)	
(Name)	Diagram_0

Database Designer	
Database Name	UniDB
Owner	dbo
Server Name	desktop-vbtupeg\mssql

(Identity)

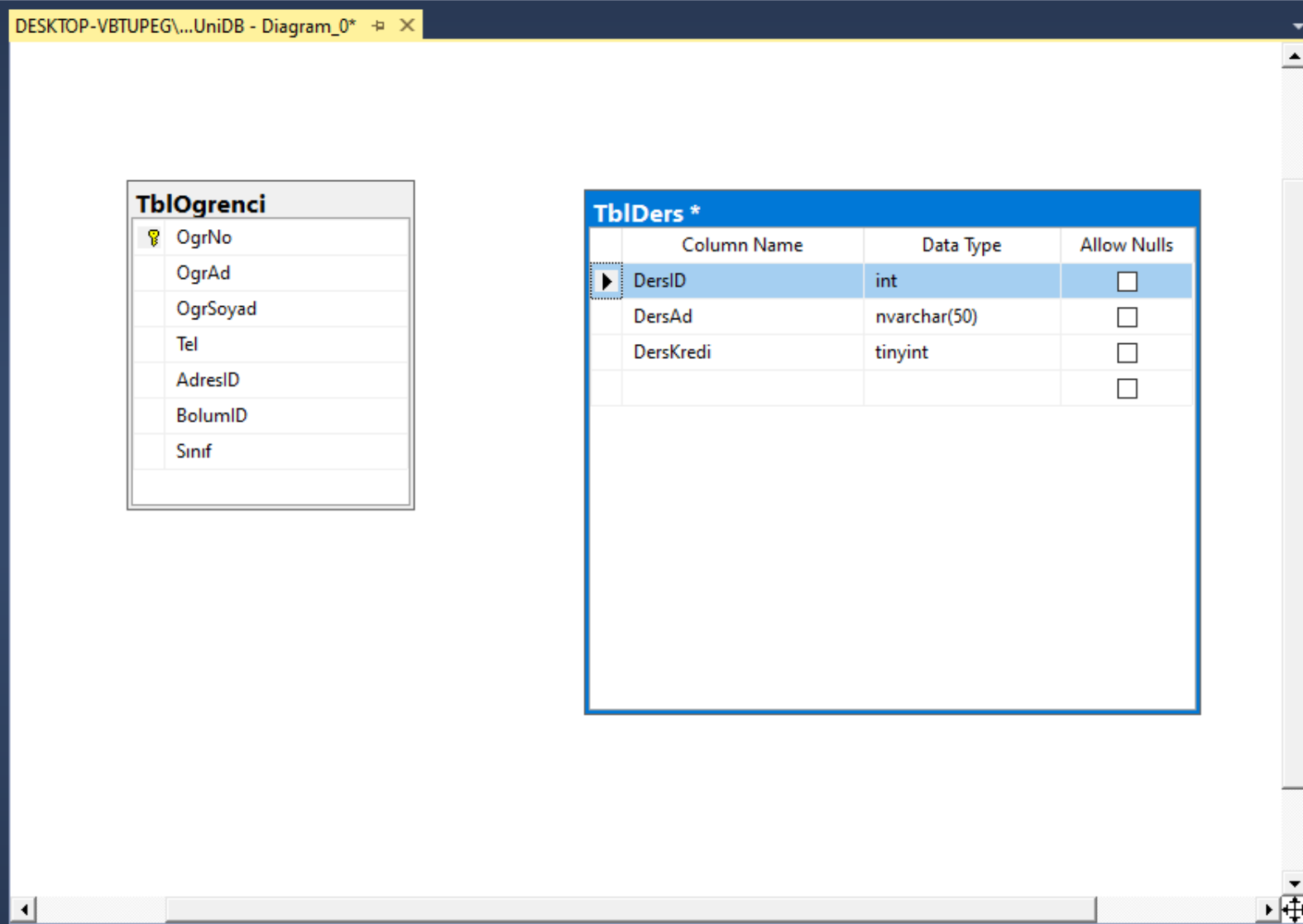
Item(s) Saved



Object Explorer

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Properties

[Col] DersID

(General)

(Name)	DersID
Allow Nulls	No
Data Type	int
Default Value or Bi	

Database Designer

Collation	<database default>
-----------	--------------------

Computed Colum

Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No

Full-text Specifica

No	
Has Non-SQL Serv	No

Identity Specificat

No	
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No
RowGuid	No
Size	4

(General)



Object Explorer

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DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinif	

TblDers *			
Column Name	Data Type	Allow Nulls	
DersID	int	<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	

Context menu for TblDers *:

- Table View
- Set Primary Key**
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties (Alt+Enter)

Properties

[Col] DersID

(General)

(Name)	DersID
Allow Nulls	No
Data Type	int
Default Value or Bi	

Database Designer

Collation	<database default>
-----------	--------------------

Computed Colum

Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No

Full-text Specifica

No	
Has Non-SQL Serv	No

Identity Specificat

No	
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No
RowGuid	No
Size	4

(General)



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DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sınıf	

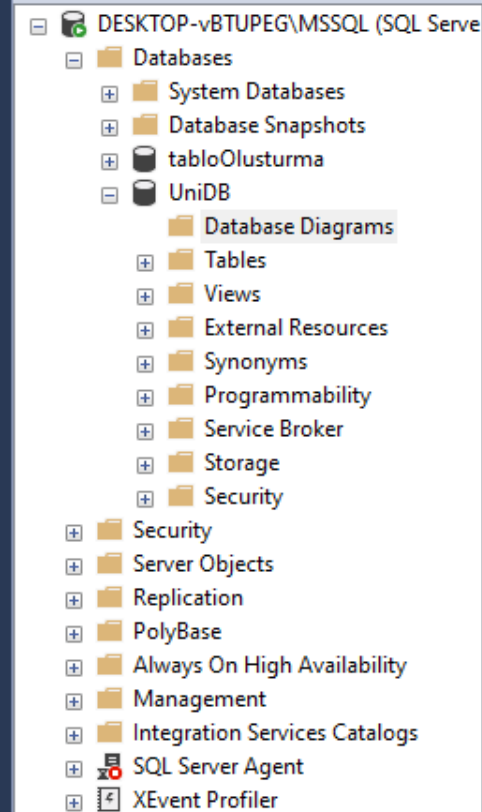
TblDers *		
Column Name	Data Type	Allow Nulls
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>

- Table View
- Remove Primary Key
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties Alt+Enter

Properties

[Col] DersID

(General)	
(Name)	DersID
Allow Nulls	No
Data Type	int
Default Value or Bi	
Database Designer	
Collation	<database default>
Computed Colum	
Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No
Full-text Specifica	
Has Non-SQL Serv	No
Identity Specificat	
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No
RowGuid	No
Size	4
(General)	



TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sınıf	

TblDers *			
Column Name	Data Type	Allow Nulls	
DersID	int	<input type="checkbox"/>	
DersAd	nvarchar(50)	<input type="checkbox"/>	
DersKredi	tinyint	<input type="checkbox"/>	
		<input type="checkbox"/>	

(General)	
(Name)	DersID
Allow Nulls	No
Data Type	int
Default Value or Bi	
Database Designer	
Collation	<database default>
Computed Colum	
Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No
Full-text Specifica	No
Has Non-SQL Serv	No
Identity Specificat	Yes
(Is Identity)	Yes
Identity Increm	1
Identity Seed	100
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No

Otomatik artışı etkinleştiriyoruz. Ders ID'lerinde 100'den başlamasını istediğimiz için Seed değerini 100 olarak giriyoruz.

File Edit View Project Table Designer Tools Window Help



Save Diagram_0 (Ctrl+S)

Object Explorer

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 - Tables
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 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability
 - Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler

DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sınıf	

TblDers *			
	Column Name	Data Type	Allow Nulls
	DersID	int	<input type="checkbox"/>
	DersAd	nvarchar(50)	<input type="checkbox"/>
	DersKredi	tinyint	<input type="checkbox"/>
			<input type="checkbox"/>

Properties

[Dgm] Diagram_0

(Identity)

(Name) Diagram_0

Database Designer

Database Name UniDB
Owner dbo
Server Name desktop-vbtupeg\mssql

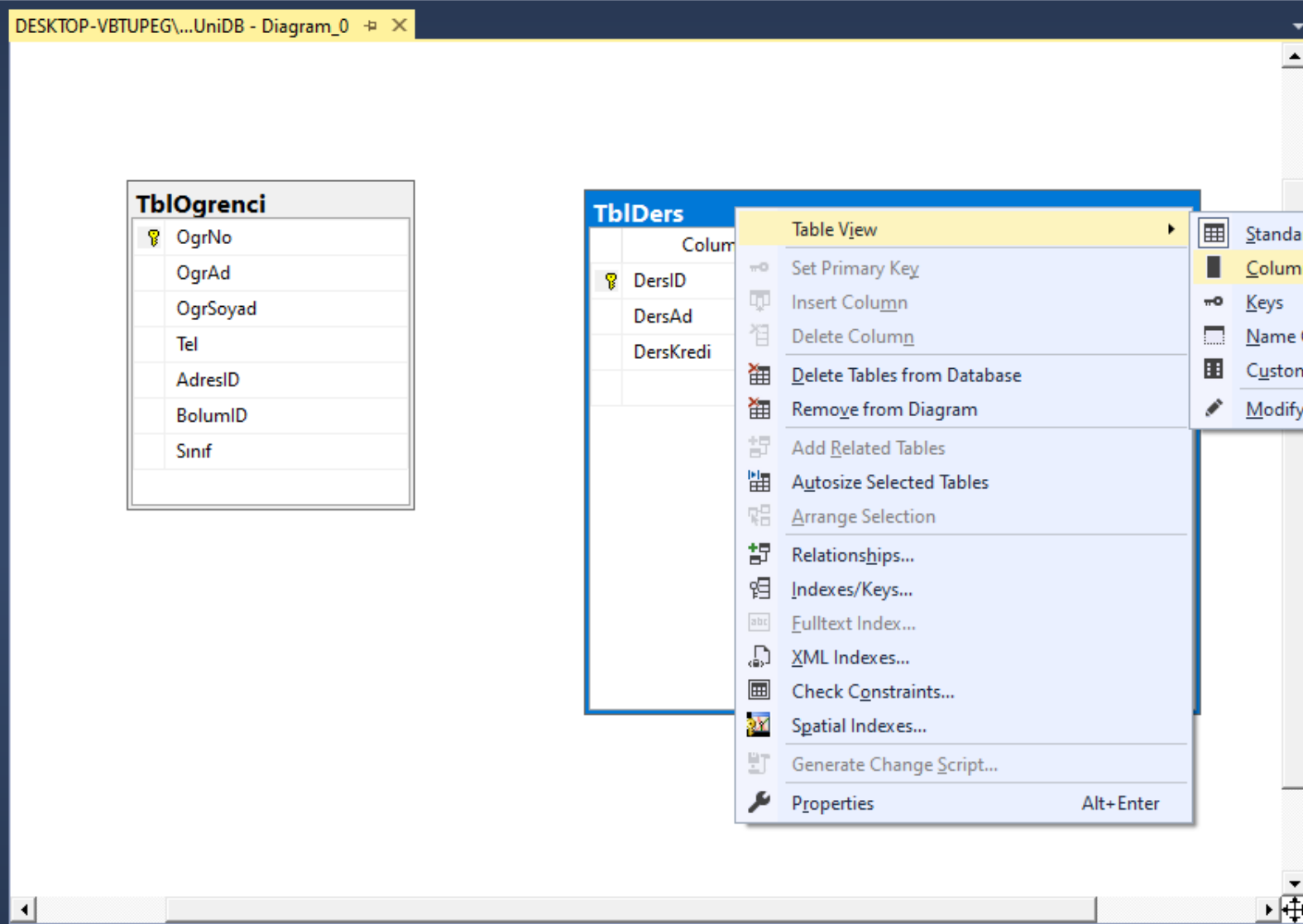
(Identity)



Object Explorer

DESKTOP-vBTUPEG\MSSQL (SQL Serve)

- Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability
 - Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler



Properties

[Tbl] dbo.TblDers

(Identity)

(Name)	TblDers
Database Name	UniDB
dbo	desktop-vbtupeg\mssql
DersID	Yes
Table	PRIMARY
Regular Data Space	No
Replicated	PRIMARY
Row GUID Column	
Text/Image Filegr	

(Identity)

TblDers

Table View

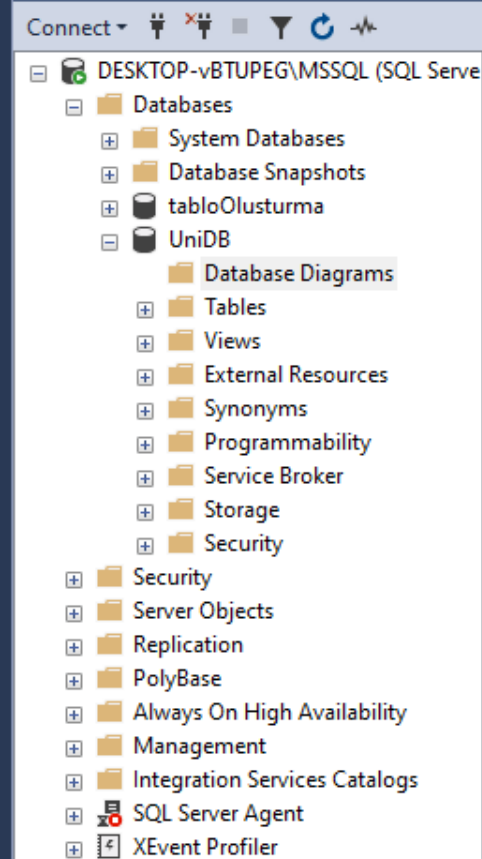
- Set Primary Key
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties Alt+Enter

- Standard
- Column Names
- Keys
- Name Only
- Custom
- Modify Custom ...

File Edit View Project Table Designer Tools Window Help



Object Explorer



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
	OgrNo
	OgrAd
	OgrSoyad
	Tel
	AdresID
	BolumID
	Sinf

TblDers	
	DersID
	DersAd
	DersKredi

Properties

[Tbl] dbo.TblDers	
(Name)	TblDers
Database Name	UniDB
Description	
Schema	dbo
Server Name	desktop-vbtupeg\mssql
Database Designer	
Identity Column	DersID
Indexable	Yes
Lock Escalation	Table
Regular Data Space	PRIMARY
Replicated	No
Row GUID Column	
Text/Image Filegr	PRIMARY

(Identity)

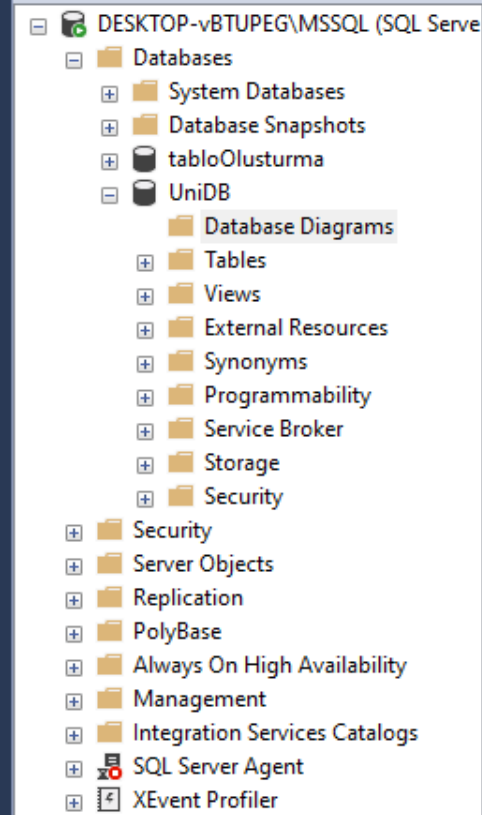
Item(s) Saved

File Edit View Project Table Designer Tools Window Help



Object Explorer

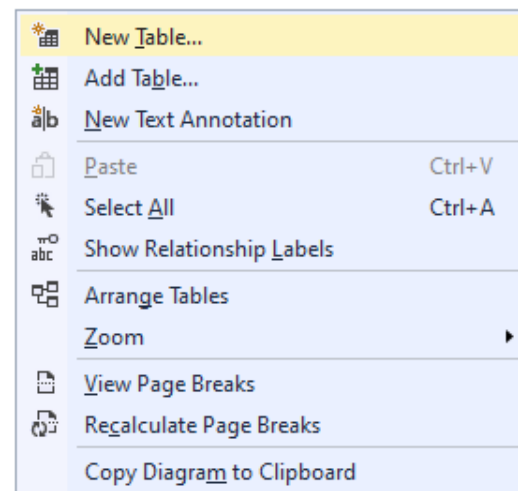
Connect



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
	OgrNo
	OgrAd
	OgrSoyad
	Tel
	AdresID
	BolumID
	Sinf

TblDers	
	DersID
	DersAd
	DersKredi



Properties

[Dgm] Diagram_0

(Identity)	
(Name)	Diagram_0
Database Designer	
Database Name	UniDB
Owner	dbo
Server Name	desktop-vbtupeg\mssql

(Identity)

Item(s) Saved

File Edit View Project Table Designer Tools Window Help

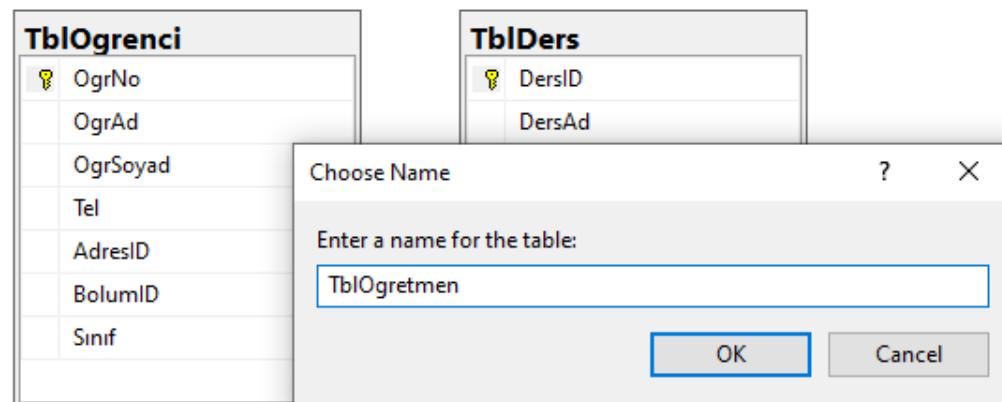


Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Serve
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler

DESKTOP-VBTUPEG\...UniDB - Diagram_0*



Properties

[Dgm] Diagram_0

- (Identity)
- (Name) Diagram_0
- Database Designer
 - Database Name UniDB
 - Owner dbo
 - Server Name desktop-vbtupeg\mssql

(Identity)

Item(s) Saved

Toolbar with icons for New Query, Save, Undo, Redo, and other database management functions.

Object Explorer

- DESKTOP-vBTUPEG\MSSQL (SQL Serve)
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler

Diagram showing three tables: TblOgrenci, TblDers, and TblOgretmen*.

TblOgrenci

OgrNo
OgrAd
OgrSoyad
Tel
AdresID
BolumID
Sınıf

TblDers

DersID
DersAd
DersKredi

TblOgretmen*

Column Name	Data Type	Allow Nulls
OgretmenID	int	<input type="checkbox"/>
OgretmenAdi	nvarchar(50)	<input type="checkbox"/>
OgretmenSoyadi	nvarchar(50)	<input type="checkbox"/>
Tel	char(11)	<input type="checkbox"/>
		<input type="checkbox"/>

Properties

[Tbl] dbo.TblOgretmen

(Identity)

(Name)	TblOgretmen
Database Name	UniDB
Description	
Schema	dbo
Server Name	desktop-vbtupeg\mssql

Database Designer

Identity Column	
Indexable	Yes
Lock Escalation	Table
Regular Data Space	PRIMARY
Replicated	No
Row GUID Column	
Text/Image Filegroup	PRIMARY

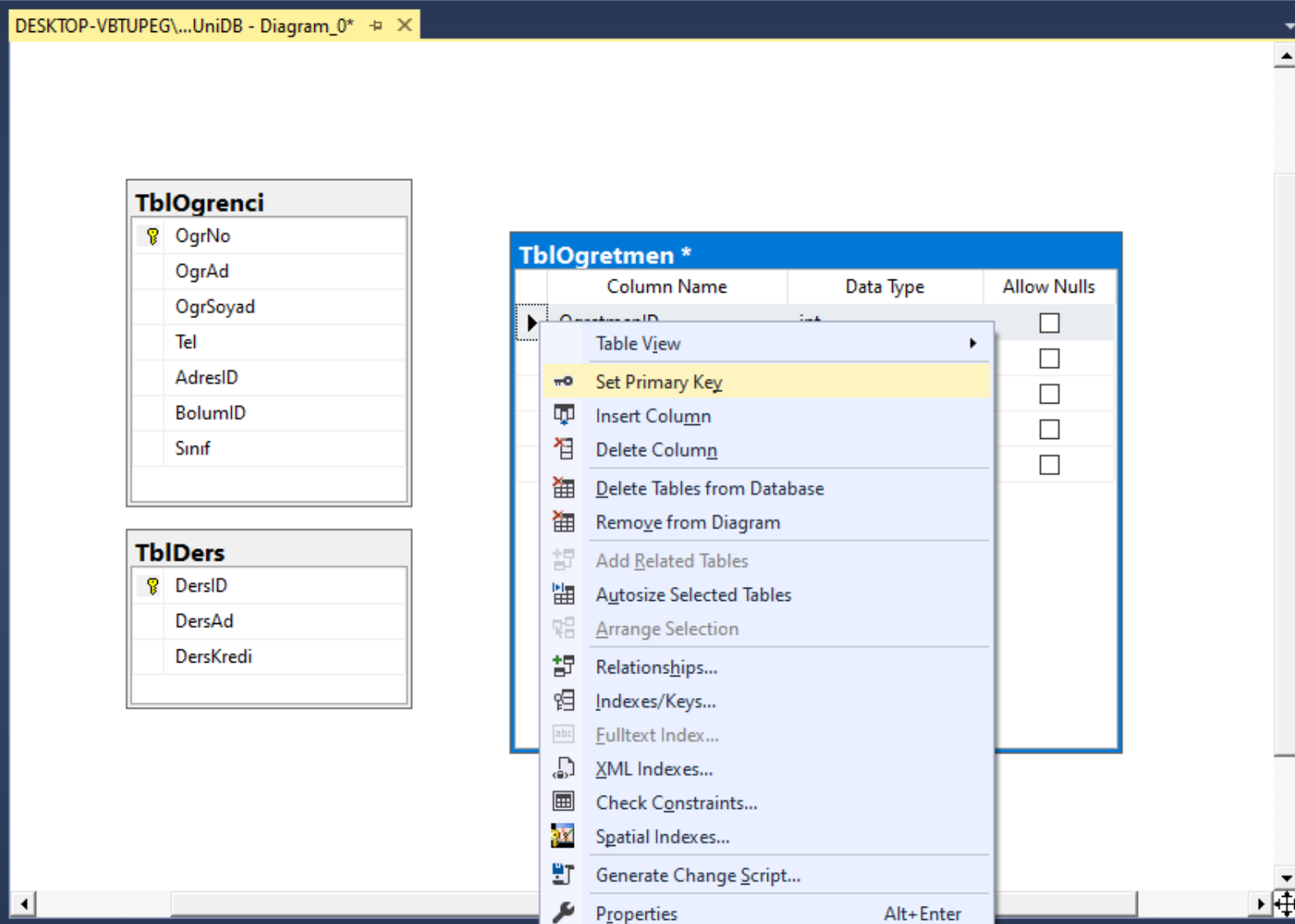
(Identity)



Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Serve)
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability
 - Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler



TblOgretmen *

- Table View
- Set Primary Key**
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties (Alt+Enter)

Properties

[Tbl] dbo.TblOgretmen

(Identity)

(Name)	TblOgretmen
Database Name	UniDB
Description	
Schema	dbo
Server Name	desktop-vbtupeg\mssql

Database Designer

Identity Column	
Indexable	Yes
Lock Escalation	Table
Regular Data Space	PRIMARY
Replicated	No
Row GUID Column	
Text/Image Filegr	PRIMARY

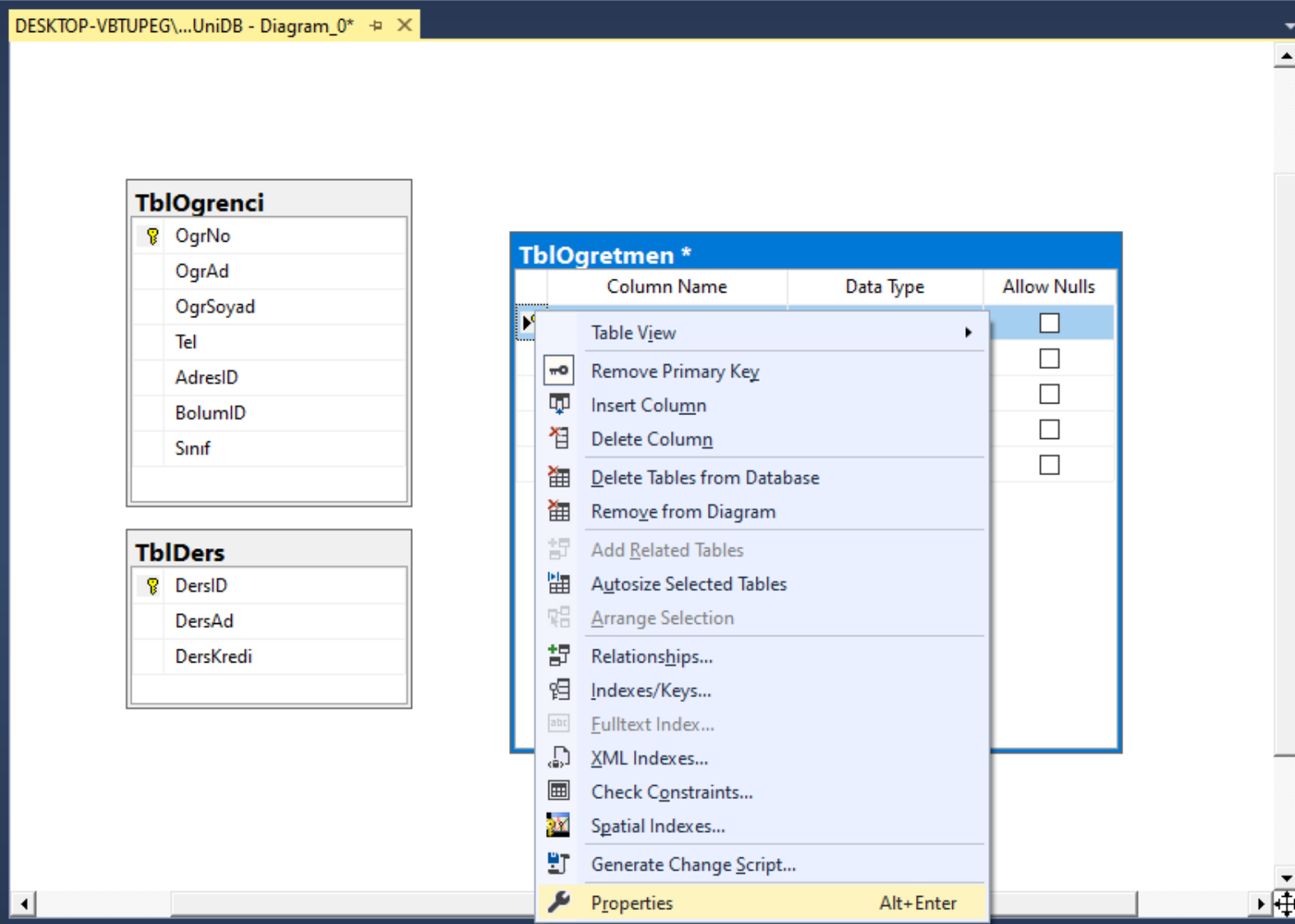
(Identity)



Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Serve)
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability
 - Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler



Properties

[Col] OgretmenID

(General)

(Name)	OgretmenID
Allow Nulls	No
Data Type	int
Default Value or Bi	

Database Designer

Collation	<database default>
-----------	--------------------

Computed Colum

Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No

Full-text Specifica

No	
Has Non-SQL Serv	No

Identity Specificat

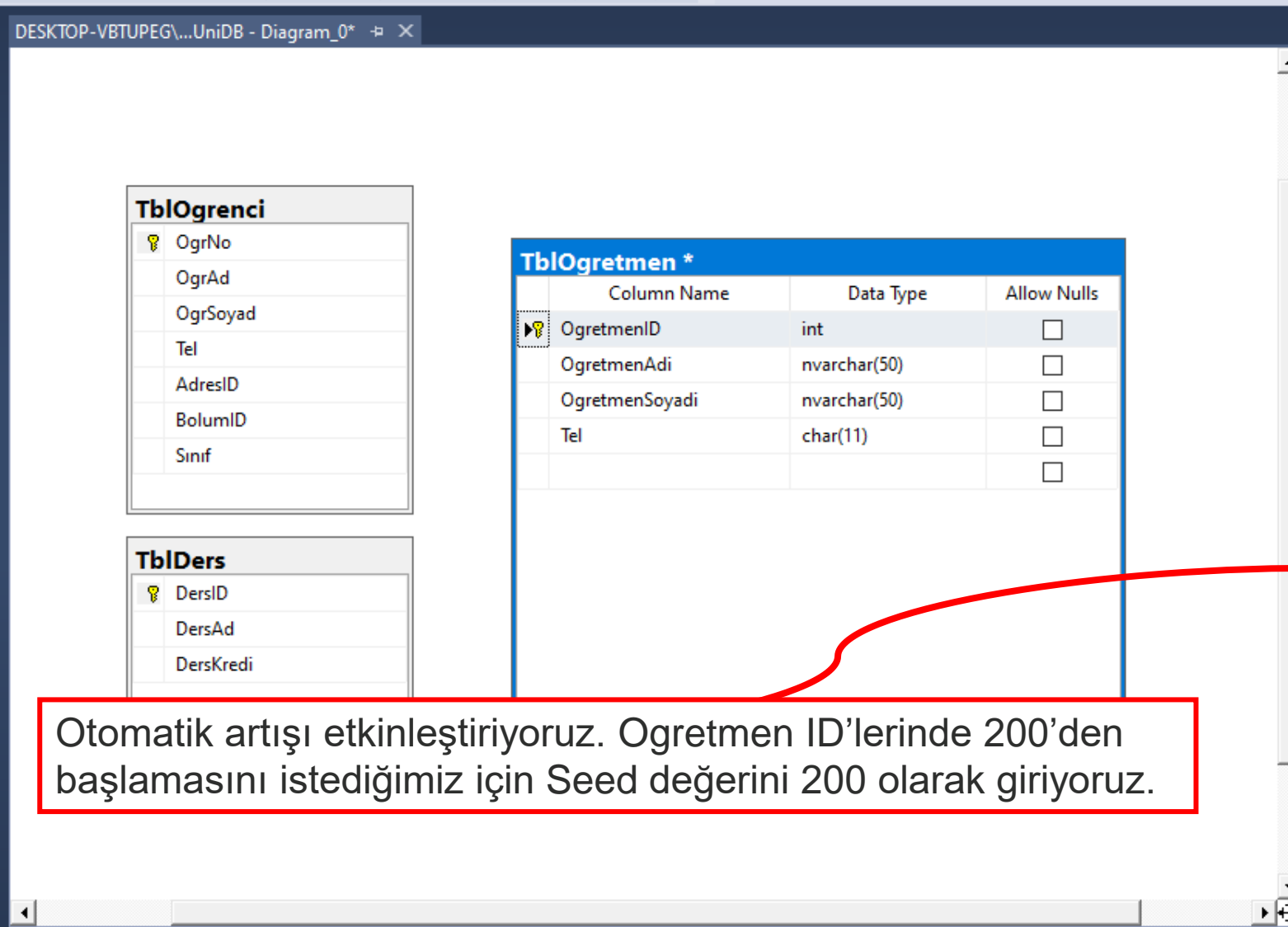
No	
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No
RowGuid	No
Size	4

(General)

Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Serve)
- Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
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 - External Resources
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 - Programmability
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 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler



Properties

[Col] OgretmenID

(General)

(Name)	OgretmenID
Allow Nulls	No
Data Type	int
Default Value or Bi	

Database Designer

Collation	<database default>
-----------	--------------------

Computed Colum

Condensed Data T	int
------------------	-----

Description

Deterministic	Yes
DTS-published	No
Full-text Specifica	No
Has Non-SQL Serv	No

Identity Specificat

(Is Identity)	Yes
Identity Increm	1
Identity Seed	200

Indexable

Yes

Is Columnset

No

Is Sparse

No

Merge-published

No

Not For Replicatio

No

Replicated

No

Identity Seed

Otomatik artışı etkinleştiriyoruz. Ogretmen ID'lerinde 200'den başlamasını istediğimiz için Seed değerini 200 olarak giriyoruz.



Save Diagram_0 (Ctrl+S)

Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Serve)
- Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler

TblOgrenci

OgrNo
OgrAd
OgrSoyad
Tel
AdresID
BolumID
Sınıf

TblDers

DersID
DersAd
DersKredi

TblOgretmen *

Column Name	Data Type	Allow Nulls
OgretmenID	int	<input type="checkbox"/>
OgretmenAdi	nvarchar(50)	<input type="checkbox"/>
OgretmenSoyadi	nvarchar(50)	<input type="checkbox"/>
Tel	char(11)	<input type="checkbox"/>
		<input type="checkbox"/>

Properties

[Dgm] Diagram_0

(Identity)

(Name) Diagram_0

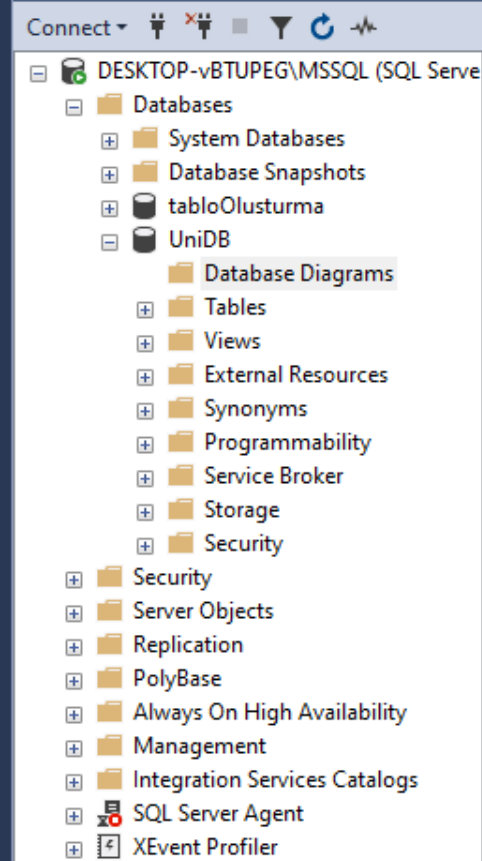
Database DesignerDatabase Name UniDB
Owner dbo
Server Name desktop-vbtupeg\mssql

(Identity)

File Edit View Project Table Designer Tools Window Help



Object Explorer



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sınıf	

TblOgretmen	
OgretmenID	
OgretmenAdi	TblOgretmen
OgretmenSoyadi	
Tel	

TblDers	
DersID	
DersAd	
DersKredi	

Properties

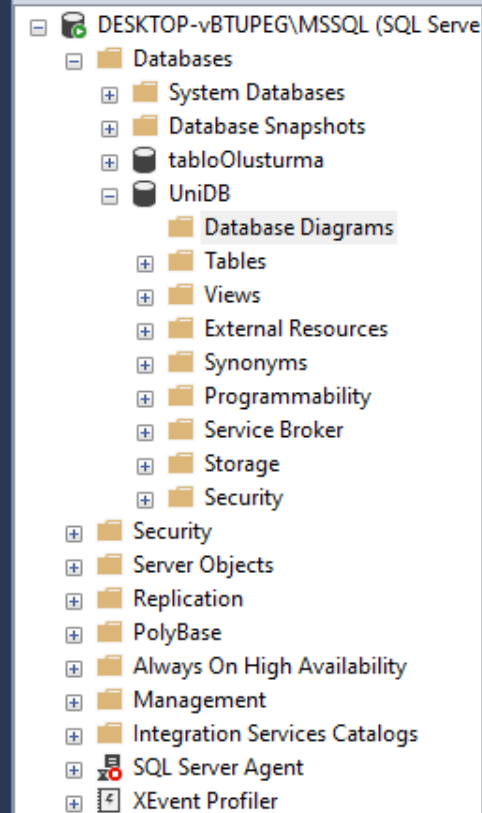
[Tbl] dbo.TblOgretmen	
(Name)	TblOgretmen
Database Name	UniDB
Description	
Schema	dbo
Server Name	desktop-vbtupeg\mssql
Database Designer	
Identity Column	OgretmenID
Indexable	Yes
Lock Escalation	Table
Regular Data Space	PRIMARY
Replicated	No
Row GUID Column	
Text/Image Filegr	PRIMARY

(Identity)



Object Explorer

Connect

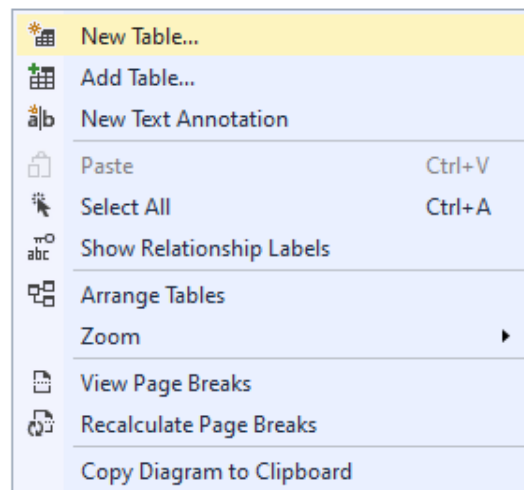


DESKTOP-VBTUPEG\...UniDB - Diagram_0

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sınıf	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

TblDers	
DersID	
DersAd	
DersKredi	



Properties

[Dgm] Diagram_0

(Identity)	
(Name)	Diagram_0

Database Designer	
Database Name	UniDB
Owner	dbo
Server Name	desktop-vbtupeg\mssql

(Identity)



Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Serve)
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler

DESKTOP-VBTUPEG\...UniDB - Diagram_0

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinif	

TblOgretmen	
OgretmenID	
OgretmenAdi	

Choose Name

Enter a name for the table:

TblDers	
DersID	
DersAd	
DersKredi	

Properties

[Dgm] Diagram_0

(Identity)

(Name)	Diagram_0
--------	-----------

Database Designer

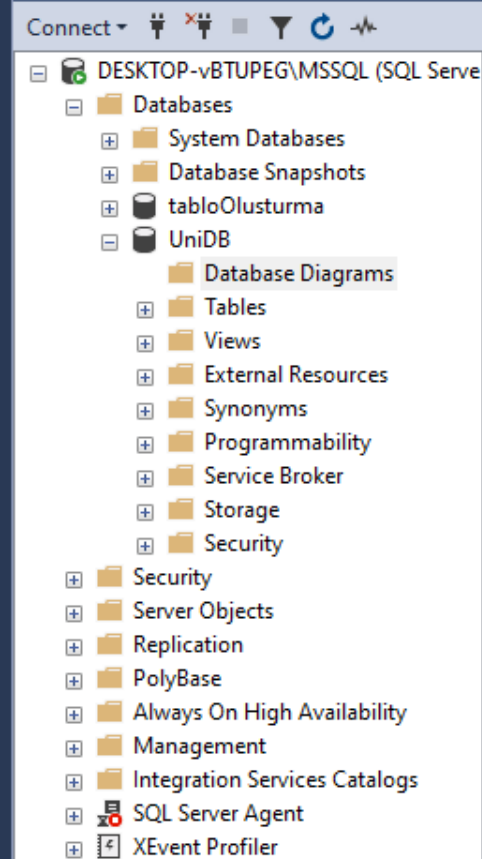
Database Name	UniDB
Owner	dbo
Server Name	desktop-vbtupege\mssql

(Identity)

File Edit View Project Table Designer Tools Window Help



Object Explorer



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

TblAdres *		
Column Name	Data Type	Allow Nulls
AdresID	int	<input type="checkbox"/>
AdresAdi	nvarchar(50)	<input type="checkbox"/>
		<input type="checkbox"/>

Properties

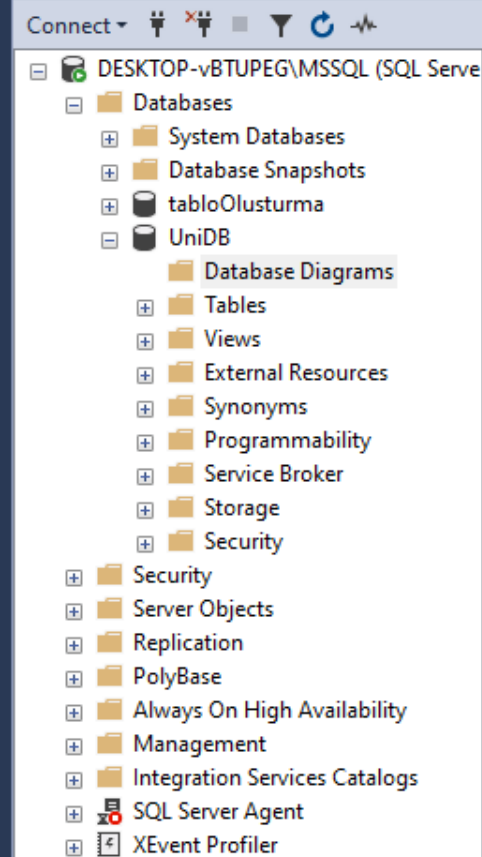
[Dgm] Diagram_0	
(Name)	Diagram_0
Database Designer	
Database Name	UniDB
Owner	dbo
Server Name	desktop-vbtupeg\mssql

(Identity)

File Edit View Project Table Designer Tools Window Help



Object Explorer



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

TblAdres *	
	Allow Nulls
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>

- Table View
- Set Primary Key**
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties Alt+Enter

Properties

[Dgm] Diagram_0	
(Name)	Diagram_0
Database Designer	
Database Name	UniDB
Owner	dbo
Server Name	desktop-vbtupeg\mssql

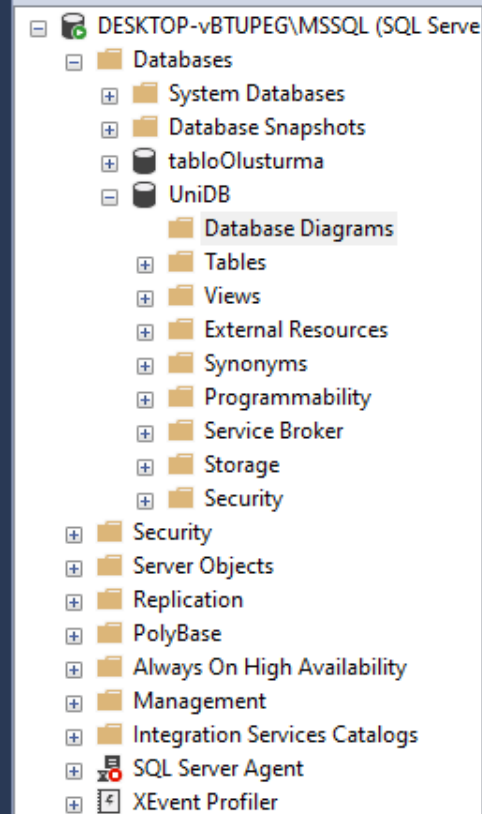
(Identity)

Item(s) Saved



Object Explorer

Connect



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

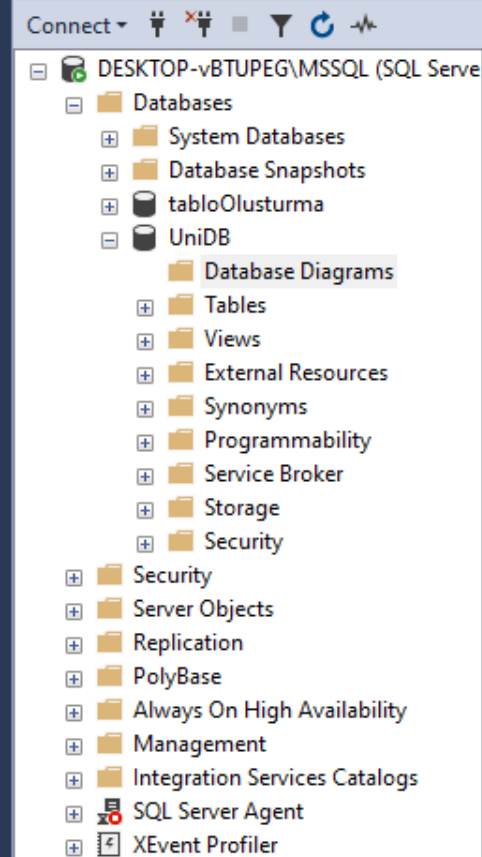
TblAdres *	
	Allow Nulls
	<input type="checkbox"/>
	<input type="checkbox"/>
	<input type="checkbox"/>

- Table View
- Remove Primary Key
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties Alt+Enter

File Edit View Project Table Designer Tools Window Help



Object Explorer



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

TblAdres *			
Column Name	Data Type	Allow Nulls	
AdresID	int	<input type="checkbox"/>	
AdresAdi	nvarchar(50)	<input type="checkbox"/>	
		<input type="checkbox"/>	

Properties

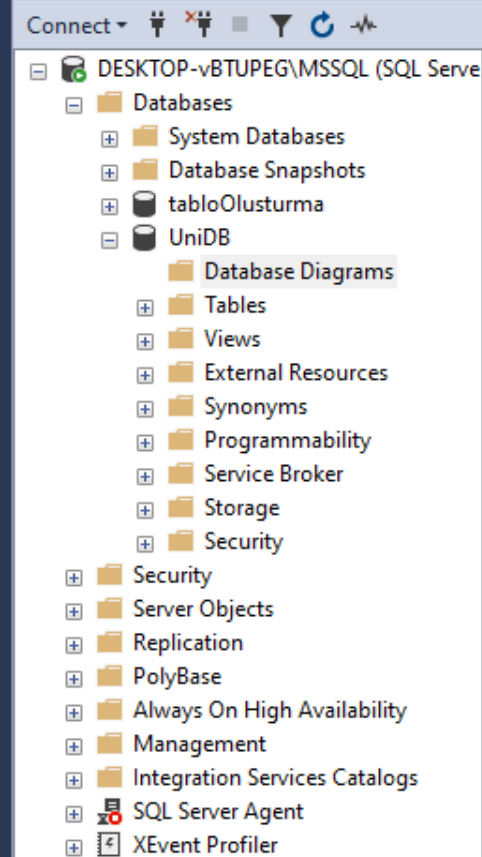
[Col] AdresID	
(Name)	AdresID
Allow Nulls	No
Data Type	int
Default Value or Bi	
Database Designer	
Collation	<database default>
Computed Colum	
Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No
Full-text Specifica	No
Has Non-SQL Serv	No
Identity Specificat	Yes
(Is Identity)	Yes
Identity Increm	1
Identity Seed	1
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No

Identity Seed



Save Diagram_0 (Ctrl+S)

Object Explorer



TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

TblAdres *			
	Column Name	Data Type	Allow Nulls
	AdresID	int	<input type="checkbox"/>
	AdresAdi	nvarchar(50)	<input type="checkbox"/>
			<input type="checkbox"/>

Properties

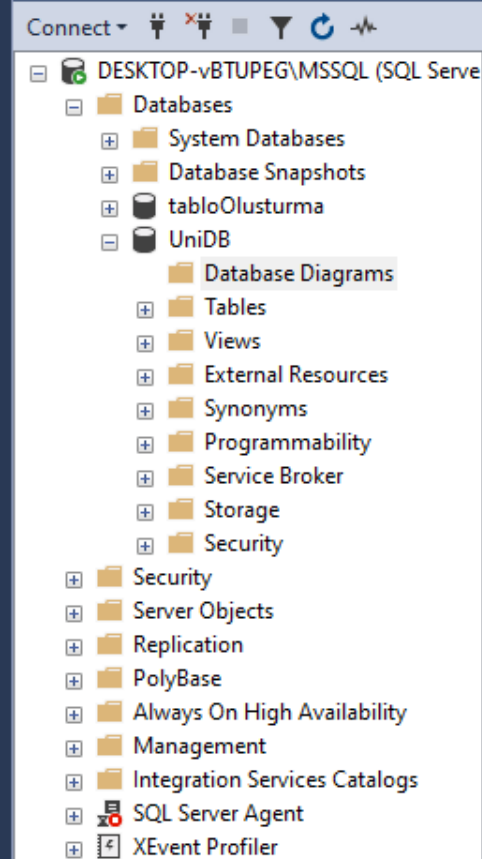
[Dgm] Diagram_0	
(Name)	Diagram_0
Database Designer	
Database Name	UniDB
Owner	dbo
Server Name	desktop-vbtupeg\mssql

(Identity)

File Edit View Project Table Designer Tools Window Help



Object Explorer



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblAdres	
AdresID	
AdresAdi	TblAdres

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

Properties

[Tbl] dbo.TblAdres	
(Name)	TblAdres
Database Name	UniDB
Description	
Schema	dbo
Server Name	desktop-vbtupeg\mssql
Database Designer	
Identity Column	AdresID
Indexable	Yes
Lock Escalation	Table
Regular Data Space	PRIMARY
Replicated	No
Row GUID Column	
Text/Image Filegroup	PRIMARY

(Identity)

File Edit View Project Table Designer Tools Window Help



Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Serve)
- Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
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 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler

DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblAdres	
AdresID	
AdresAdi	

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

Choose Name

Enter a name for the table:

OK Cancel

Properties

[Dgm] Diagram_0

(Identity)	
(Name)	Diagram_0

Database Designer	
Database Name	UniDB
Owner	dbo
Server Name	desktop-vbtupeg\mssql

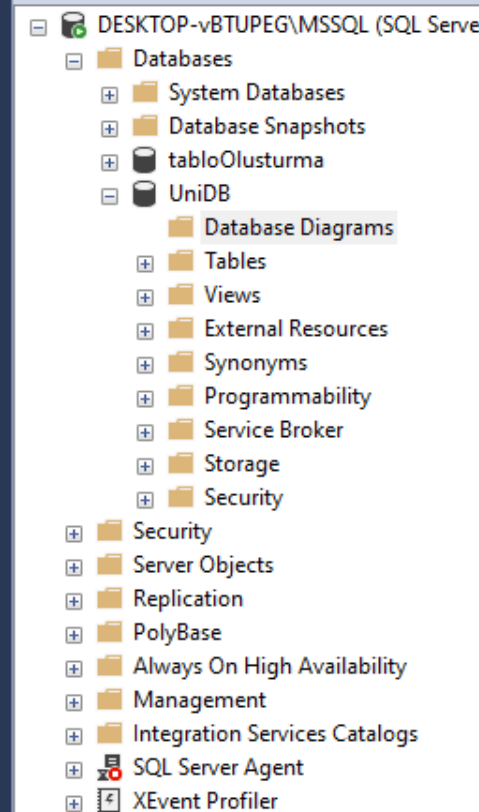
(Identity)

File Edit View Project Table Designer Tools Window Help



Object Explorer

Connect



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci

OgrNo
OgrAd
OgrSoyad
Tel
AdresID
BolumID
Sinf

TblAdres

AdresID
AdresAdi

TblDers

DersID
DersAd
DersKredi

TblOgretmen

OgretmenID
OgretmenAdi
OgretmenSoyadi
Tel

TblBolum *

Column Name	Data Type	Allow Nulls
BolumID	int	<input type="checkbox"/>
BolumAdi	nvarchar(50)	<input type="checkbox"/>
		<input type="checkbox"/>

Properties

[Col] BolumAdi

(General)	
(Name)	BolumAdi
Allow Nulls	No
Data Type	nvarchar
Default Value or Bi	
Length	50
Database Designer	
Collation	<database default>
Computed Column	
Condensed Data T	nvarchar(50)
Description	
Deterministic	Yes
DTS-published	No
Full-text Specifica	No
Has Non-SQL Serv	No
Identity Specificat	
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No
RowGuid	No
Size	100

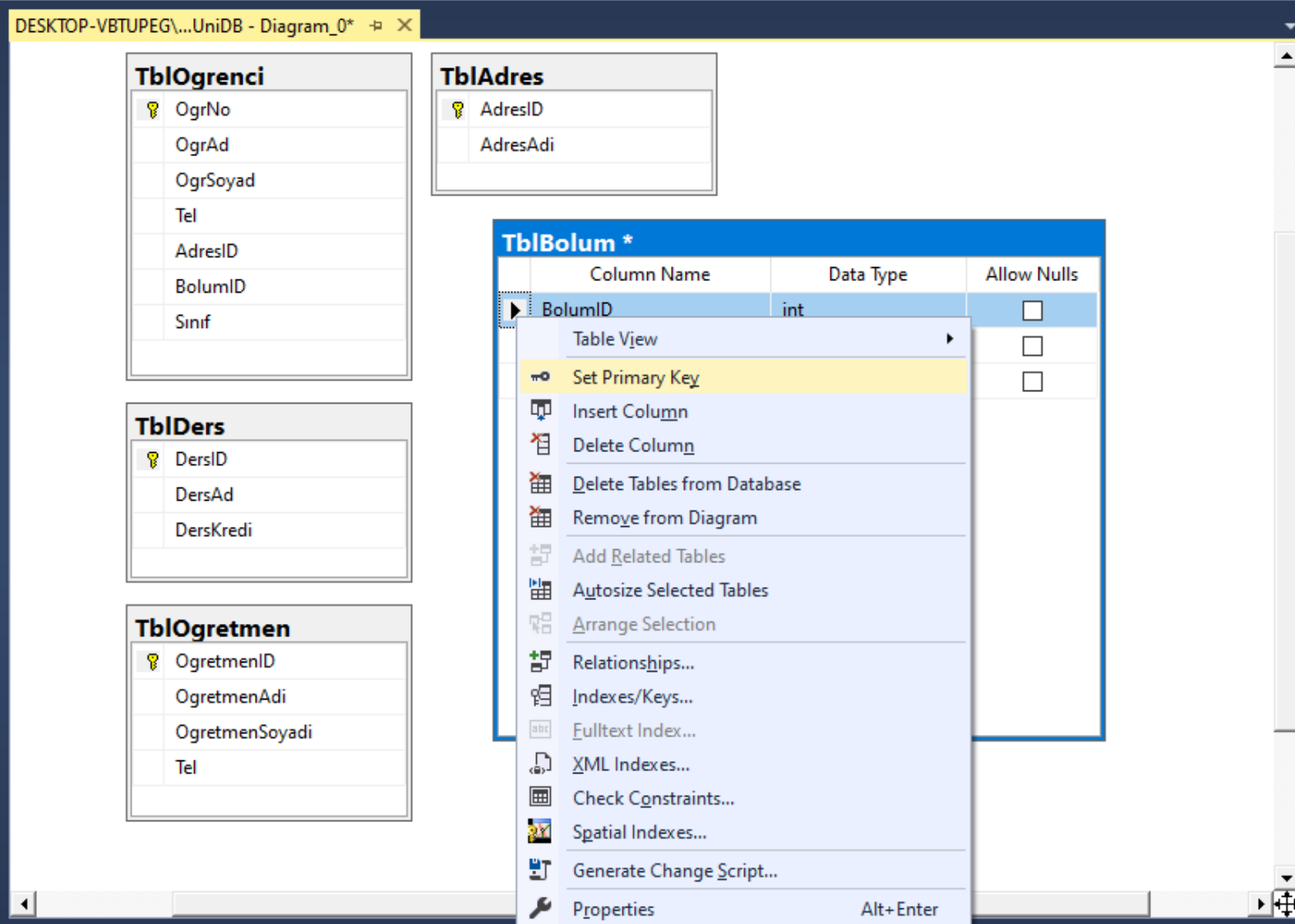
(General)



Object Explorer

Connect

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 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
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 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability
 - Management
 - Integration Services Catalogs
 - SQL Server Agent
 - XEvent Profiler



Properties

[Col] BolumID

(General)

(Name)	BolumID
Allow Nulls	No
Data Type	int
Default Value or Bi	

Database Designer

Collation	<database default>
-----------	--------------------

Computed Column

Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No

Full-text Specifica

No	
Has Non-SQL Serv	No

Identity Specificat

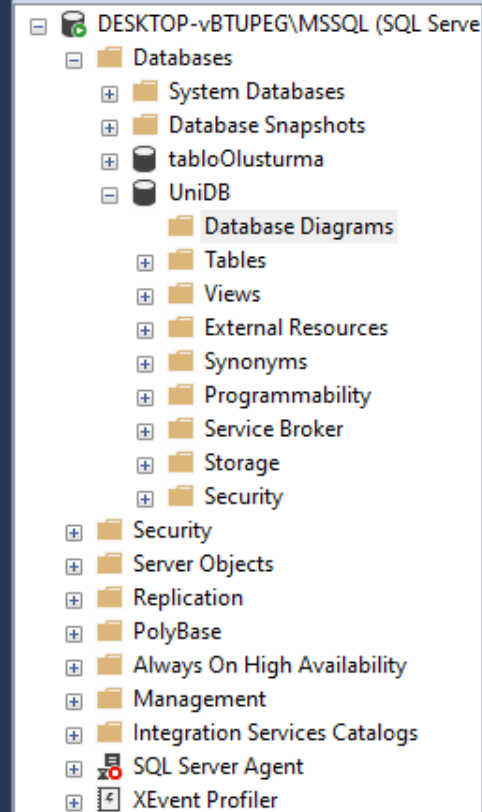
No	
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No
RowGuid	No
Size	4

(General)



Object Explorer

Connect



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblAdres	
AdresID	
AdresAdi	

TblDers	
DersID	
DersAd	
DersKredi	

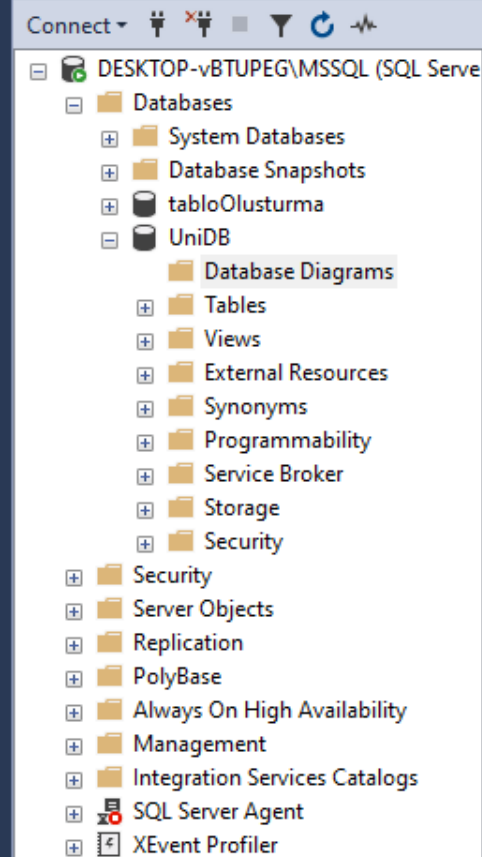
TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

Column Name	Data Type	Allow Nulls
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>

- Table View
- Remove Primary Key
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties Alt+Enter



Object Explorer



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblAdres	
AdresID	
AdresAdi	

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

TblBolum *			
	Column Name	Data Type	Allow Nulls
	BolumID	int	<input type="checkbox"/>
	BolumAdi	nvarchar(50)	<input type="checkbox"/>
			<input type="checkbox"/>

Properties

[Col] BolumID	
(Name)	BolumID
Allow Nulls	No
Data Type	int
Default Value or Bi	
Database Designer	
Collation	<database default>
Computed Colum	
Condensed Data T	int
Description	
Deterministic	Yes
DTS-published	No
Full-text Specifica	No
Has Non-SQL Serv	No
Identity Specificat	
(Is Identity)	Yes
Identity Increm	1
Identity Seed	300
Indexable	Yes
Is Columnset	No
Is Sparse	No
Merge-published	No
Not For Replicatio	No
Replicated	No

Identity Seed



Save Diagram_0 (Ctrl+S)

Object Explorer

Connect

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 - XEvent Profiler

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblAdres	
AdresID	
AdresAdi	

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

TblBolum *			
	Column Name	Data Type	Allow Nulls
	BolumID	int	<input type="checkbox"/>
	BolumAdi	nvarchar(50)	<input type="checkbox"/>
			<input type="checkbox"/>

Properties

[Dgm] Diagram_0

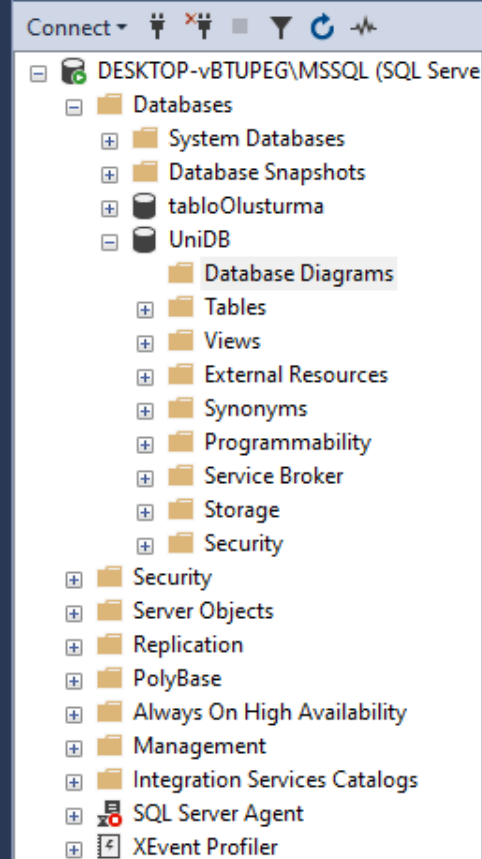
(Identity)	
(Name)	Diagram_0
Database Designer	
Database Name	UniDB
Owner	dbo
Server Name	desktop-vbtupeg\mssql

(Identity)

File Edit View Project Table Designer Tools Window Help



Object Explorer



DESKTOP-VBTUPEG\...UniDB - Diagram_0

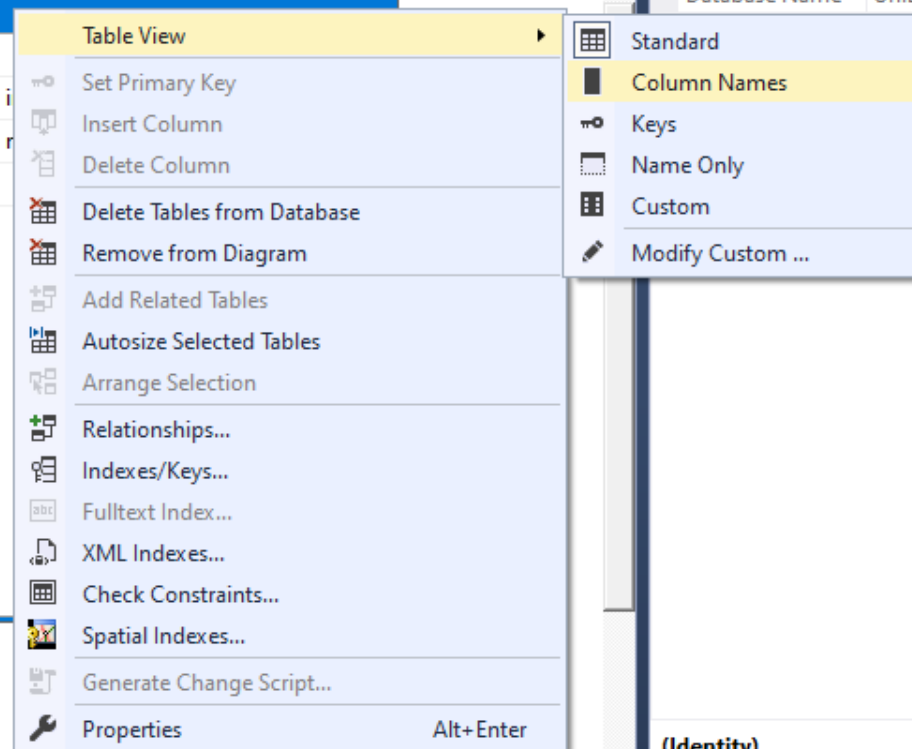
TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblAdres	
AdresID	
AdresAdi	

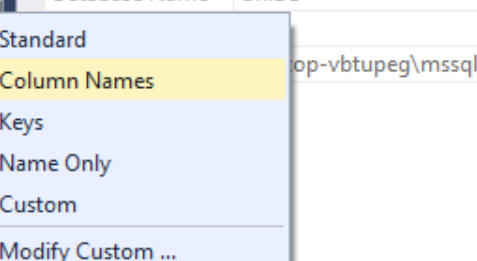
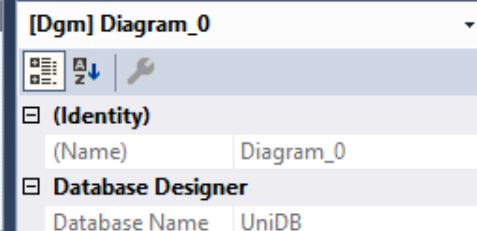
TblBolum	
Column Name	
BolumID	
BolumAdi	

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	



Properties



Item(s) Saved



Object Explorer

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- XEvent Profiler

DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblAdres	
AdresID	
AdresAdi	

TblBolum	
BolumID	
BolumAdi	

TblDers	
DersID	
DersAd	
DersKredi	

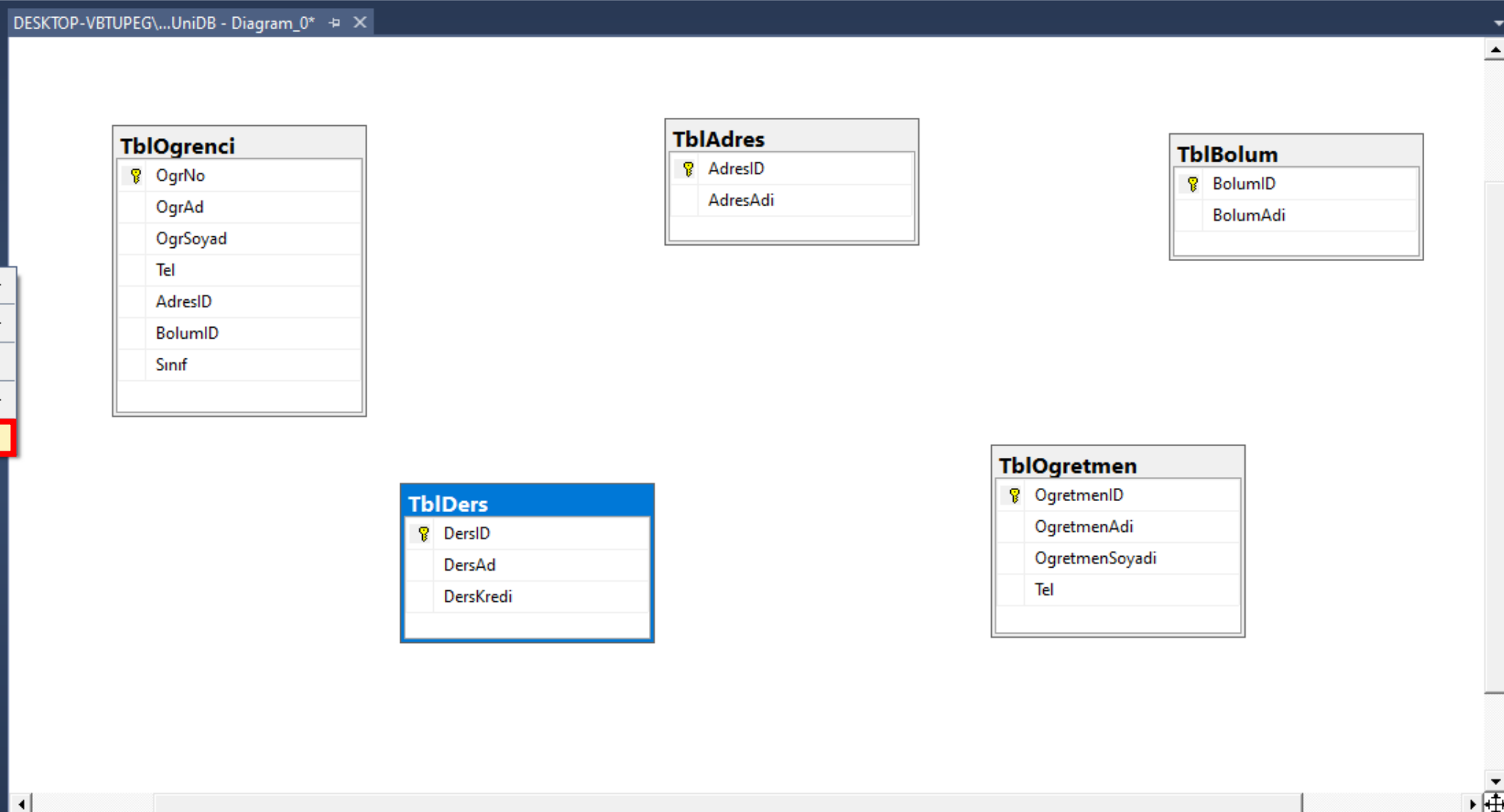
TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	



Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Se
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 - Filter
 - Start PowerShell
 - Reports
 - Refresh
 - dbo.tblOgrenci
 - dbo.tblOgretmen
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Object Explorer

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 - External Tables
 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblOgrenci
 - dbo.TblOgretmen
 - views
 - External Resources
 - Synonyms
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DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblAdres	
AdresID	
AdresAdi	

TblBolum	
BolumID	
BolumAdi	

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	



Object Explorer

Connect

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- Databases
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 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblOgrenci
 - dbo.TblOgretmen
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
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DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblAdres	
AdresID	
AdresAdi	

TblBolum	
BolumID	
BolumAdi	

Choose Name

Enter a name for the table:

OK Cancel

TblDers	
DersID	
DersAd	
DersKredi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	



Object Explorer

Connect

DESKTOP-vBTUPEG\MSSQL (SQL Se

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 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblOgrenci
 - dbo.TblOgretmen
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 - Security
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 - Server Objects
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 - PolyBase
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DESKTOP-VBTUPEG\...UniDB - Diagram_0*

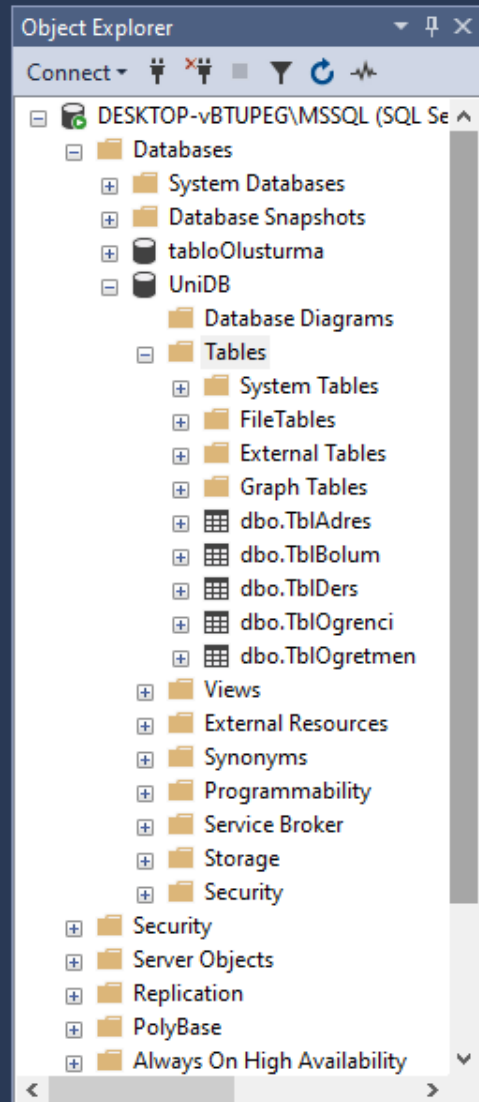
TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sınıf	

TblAdres	
AdresID	
AdresAdi	

TblBolum	
BolumID	
BolumAdi	

TblNot *			
	Column Name	Data Type	Allow Nulls
	OgrNo	int	<input type="checkbox"/>
	DersID	int	<input type="checkbox"/>
	VizeNotu	tinyint	<input checked="" type="checkbox"/>
	FinalNotu	tinyint	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

Veri girişi yapılmadan şimdilik boş geçilsin.



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sınıf	

TblAdres	
AdresID	

TblNot *			
Column Name	Data Type	Allow Nulls	
OgrNo	int	<input type="checkbox"/>	
DersID	int	<input type="checkbox"/>	
VizeNotu	tinyint	<input checked="" type="checkbox"/>	
FinalNotu	tinyint	<input checked="" type="checkbox"/>	
		<input type="checkbox"/>	

TblBolum	
BolumID	
BolumAdi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

Bir öğrenci birden fazla derse girebilir. Bir derse de birden fazla öğrenci kayıt yaptırabilir. Bu durumda benzersiz kayıtlar olmayacağı için primary key yerine **composit key** kullanacağız. **Composit key** ikili verileri baz alır. İkili verilerin tekrar edilmemesi için kullanılır.



Object Explorer

Connect

DESKTOP-vBTUPEG\MSSQL (SQL Se ^

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 - External Tables
 - Graph Tables
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 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblOgrenci
 - dbo.TblOgretmen
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DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sınıf	

TblAdres	
AdresID	

TblNot *			
	Column Name	Data Type	Allow Nulls
	OgrNo	int	<input type="checkbox"/>
	DersID	int	<input type="checkbox"/>
	VizeNotu	tinyint	<input checked="" type="checkbox"/>
	FinalNotu	tinyint	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

TblBolum	
BolumID	
BolumAdi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

OgrNo seçildikten sonra **Ctrl** tuşuna basarak DersID alanını da seçiyoruz.



Object Explorer

Connect

DESKTOP-vBTUPEG\MSSQL (SQL Se

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 - Graph Tables
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 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblOgrenci
 - dbo.TblOgretmen
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DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sınıf	

TblAdres	
AdresID	

TblBolum	
BolumID	
BolumAdi	

Column Name	Data Type	Allow Nulls
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/>
		<input type="checkbox"/>

TblNot *

- Table View
- Set Primary Key**
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties Alt+Enter

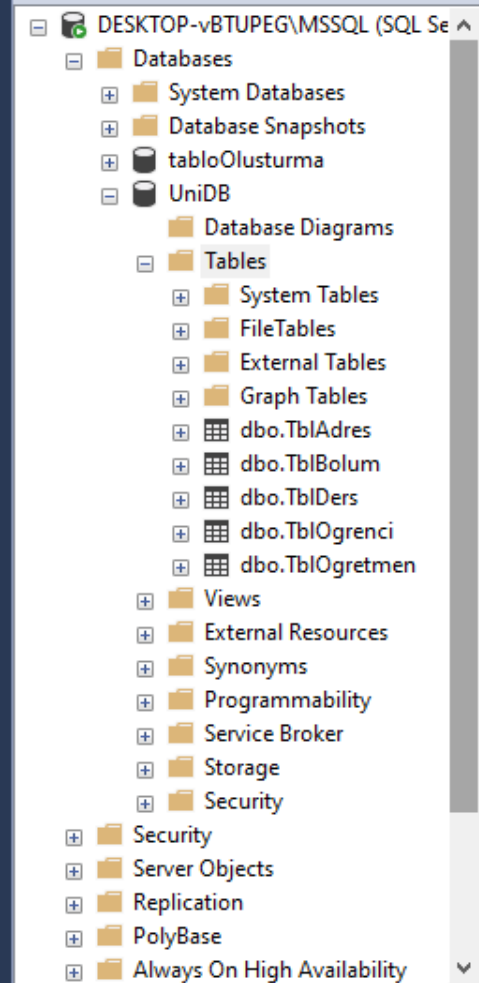
Daha sonra sağ tıklayarak **Set Primary Key** yapıyoruz.

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	



Object Explorer

Connect



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblAdres	
AdresID	

TblNot *			
	Column Name	Data Type	Allow Nulls
	OgrNo	int	<input type="checkbox"/>
	DersID	int	<input type="checkbox"/>
	VizeNotu	tinyint	<input checked="" type="checkbox"/>
	FinalNotu	tinyint	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

TblBolum	
BolumID	
BolumAdi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	



Save Diagram_0 (Ctrl+S)

Object Explorer

Connect

DESKTOP-vBTUPEG\MSSQL (SQL Se

Databases

System Databases

Database Snapshots

tabloOlusturma

UniDB

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.TblAdres

dbo.TblBolum

dbo.TblDers

dbo.TblOgrenci

dbo.TblOgretmen

Views

External Resources

Synonyms

Programmability

Service Broker

Storage

Security

Security

Server Objects

Replication

PolyBase

Always On High Availability

DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sinf	

TblAdres	
AdresID	

TblNot *			
	Column Name	Data Type	Allow Nulls
	OgrNo	int	<input type="checkbox"/>
	DersID	int	<input type="checkbox"/>
	VizeNotu	tinyint	<input checked="" type="checkbox"/>
	FinalNotu	tinyint	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

TblBolum	
BolumID	
BolumAdi	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	



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 - FileTables
 - External Tables
 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblOgrenci
 - dbo.TblOgretmen
 - Views
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DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblOgrenci	
OgrNo	
OgrAd	
OgrSoyad	
Tel	
AdresID	
BolumID	
Sınıf	

TblAdres	
AdresID	
AdresAdi	

TblBolum	
BolumID	
BolumAdi	

TblDers	
DersID	
DersAd	
DersKredi	

TblNot	
OgrNo	
DersID	
VizeNotu	
FinalNotu	

TblOgretmen	
OgretmenID	
OgretmenAdi	
OgretmenSoyadi	
Tel	

TblAdres tablosundaki AdresID alanı ile **TblOgrenci** tablosundaki AdresID alanı ile ilişkilendiriyoruz. Bunun için **TblAdres** tablosundaki AdresID alanının üzerine sol tıklayıp sürükleyerek **TblOgrenci** tablosundaki AdresID alanının üzerine bırakıyoruz.



Object Explorer

Connect [Server Icon] [Refresh Icon]

- DESKTOP-vBTUPEG\MSSQL (SQL Se
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
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 - FileTables
 - External Tables
 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblOgrenci
 - dbo.TblOgretmen
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DESKTOP-VBTUPEG\...UniDB - Diagram_0*

Tables and Columns

Relationship name:

Primary key table: Foreign key table:

AdresID	AdresID

OK Cancel

TblBolum

- BolumID
- BolumAdi

TblOgretmen

- OgretmenID
- OgretmenAdi
- OgretmenSoyadi
- Tel



Object Explorer

Connect [Server Icon] [Refresh Icon]

- DESKTOP-vBTUPEG\MSSQL (SQL Se ^
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
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 - FileTables
 - External Tables
 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblOgrenci
 - dbo.TblOgretmen
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DESKTOP-VBTUPEG\...UniDB - Diagram_0* [Close Icon]

Foreign Key Relationship

Selected Relationship: FK_TblOgrenci_TblAdres*

Editing properties for new relationship. The 'Tables And Columns Specification' property needs to be filled in before the new relationship will be accepted.

(General)

Check Existing Data On Creati Yes

Tables And Columns Specifica

Database Designer

Enforce For Replication Yes

Enforce Foreign Key Constrair Yes

INSERT And UPDATE Specifica

Identity

(Name)	FK_TblOgrenci_TblAdres
Description	

OK Cancel

TblBolum

[Key Icon] BolumID
BolumAdi

TblOgretmen

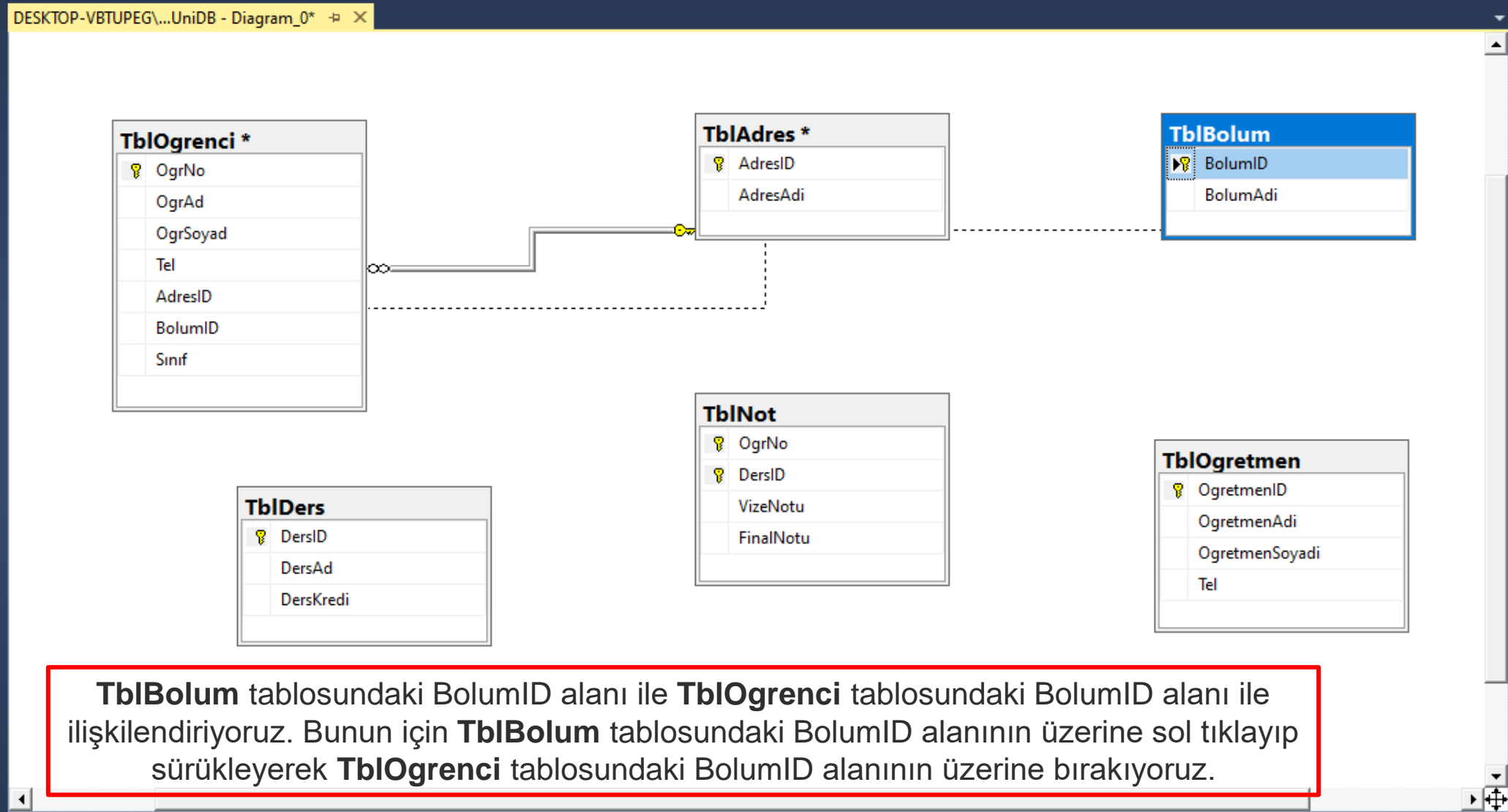
[Key Icon] OgretmenID
OgretmenAdi
OgretmenSoyadi
Tel



Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Se
- Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblOgrenci
 - dbo.TblOgretmen
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability



TblBolum tablosundaki BolumID alanı ile **TblOgrenci** tablosundaki BolumID alanı ile ilişkilendiriyoruz. Bunun için **TblBolum** tablosundaki BolumID alanının üzerine sol tıklayıp sürükleyerek **TblOgrenci** tablosundaki BolumID alanının üzerine bırakıyoruz.



Object Explorer

Connect

DESKTOP-vBTUPEG\MSSQL (SQL Se

Databases

System Databases

Database Snapshots

tabloOlusturma

UniDB

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.TblAdres

dbo.TblBolum

dbo.TblDers

dbo.TblOgrenci

dbo.TblOgretmen

Views

External Resources

Synonyms

Programmability

Service Broker

Storage

Security

Security

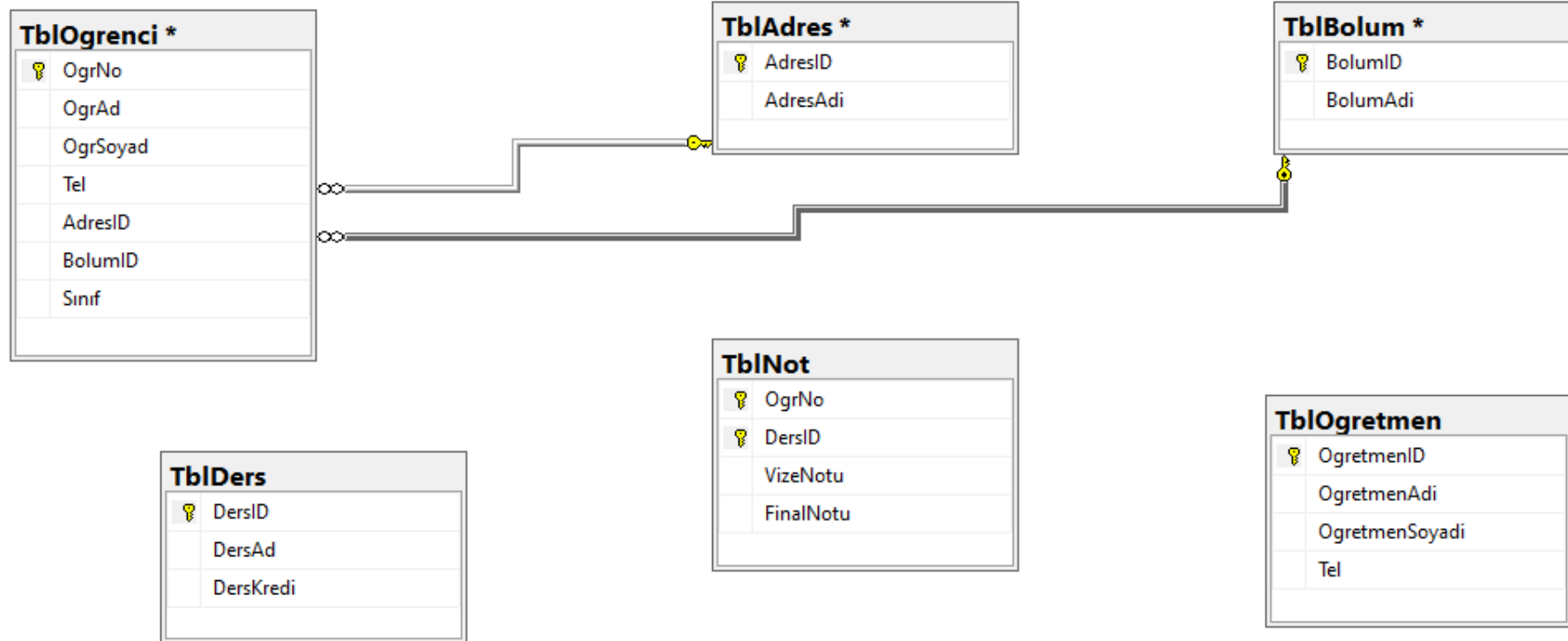
Server Objects

Replication

PolyBase

Always On High Availability

DESKTOP-VBTUPEG\...UniDB - Diagram_0*



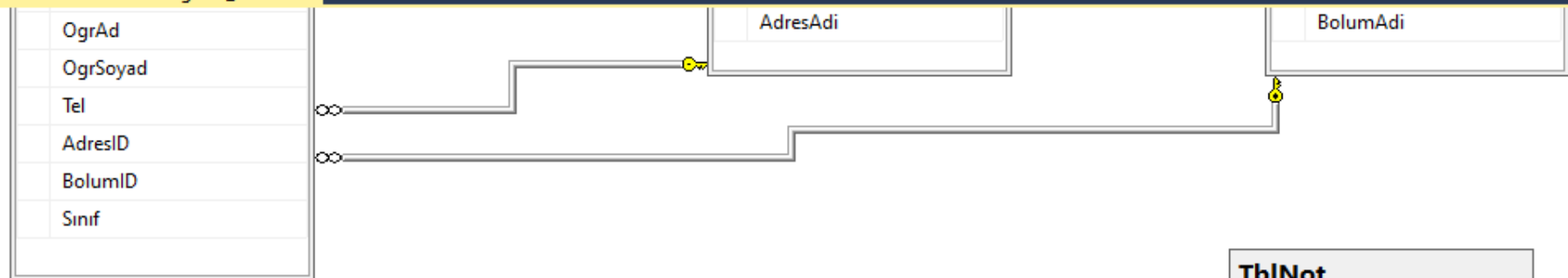


Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Se
- Databases
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 - UniDB
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 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Always On High Availability

DESKTOP-VBTUPEG\...UniDB - Diagram_0*



TblDers	
⚙️ DersID	
DersAd	
DersKredi	

TblOgretmen	
⚙️ OgretmenID	
OgretmenAdi	
OgretmenSoyad	
Tel	

TblNot	
⚙️ OgrNo	

Table View

- Standard
- Column Names
- Keys
- Name Only
- Custom
- Modify Custom ...

Set Primary Key

Insert Column

Delete Column

Delete Tables from Database

Remove from Diagram

Add Related Tables

Autosize Selected Tables

Arrange Selection

Relationships...

Indexes/Keys...

Fulltext Index...

XML Indexes...

Check Constraints...

Spatial Indexes...

Generate Change Script...

Properties Alt+Enter

TblOgretmen tablosuna dersleri ekliyoruz.

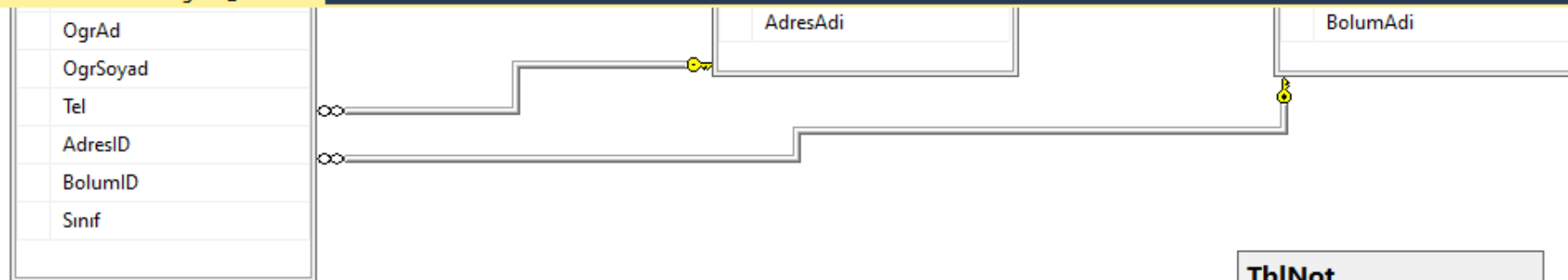


Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Se
- Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
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 - Service Broker
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 - Security
 - Security
 - Server Objects
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 - PolyBase
 - Always On High Availability

DESKTOP-VBTUPEG\...UniDB - Diagram_0*



TblDers	
⚡ DersID	
DersAd	
DersKredi	

TblOgretmen *			
	Column Name	Data Type	Allow Nulls
⚡	OgretmenID	int	<input type="checkbox"/>
	OgretmenAdi	nvarchar(50)	<input type="checkbox"/>
	OgretmenSoyadi	nvarchar(50)	<input type="checkbox"/>
	Tel	char(11)	<input type="checkbox"/>
▶	DersID	int	<input checked="" type="checkbox"/>

TblNot	
⚡	OgrNo
⚡	DersID
	VizeNotu
	FinalNotu

File Edit View Project Table Designer Tools Window Help

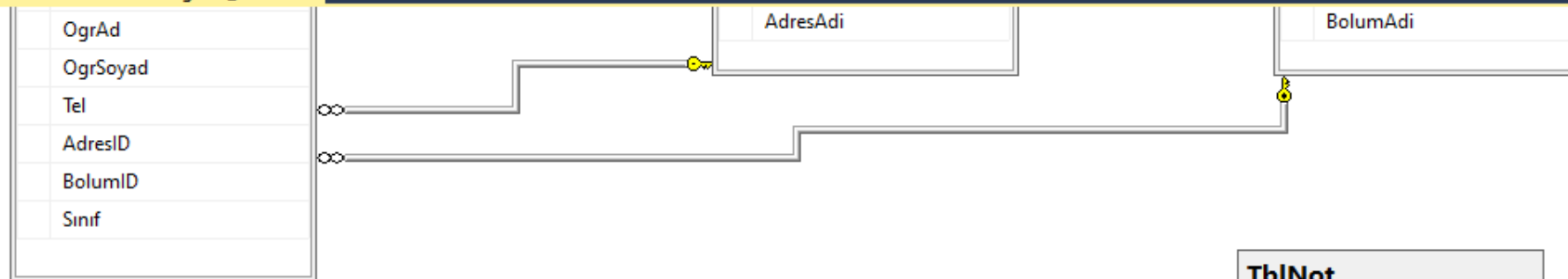


Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Se
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
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 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblOgrenci
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 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
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 - PolyBase
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DESKTOP-VBTUPEG\...UniDB - Diagram_0*



TblDers	
⚡ DersID	
DersAd	
DersKredi	

TblOgretmen *			
	Column Name	Data Type	Allow N
⚡	OgretmenID	int	<input type="checkbox"/>
	OgretmenAdi	nvarchar(50)	<input type="checkbox"/>
	OgretmenSoyadi	nvarchar(50)	<input type="checkbox"/>
	Tel	char(11)	<input type="checkbox"/>
	DersID	int	<input checked="" type="checkbox"/>
			<input type="checkbox"/>

TblNot	
⚡	OgrNo
⚡	DersID
	VizeNotu
	FinalNotu

File Edit View Project Table Designer Tools Window Help

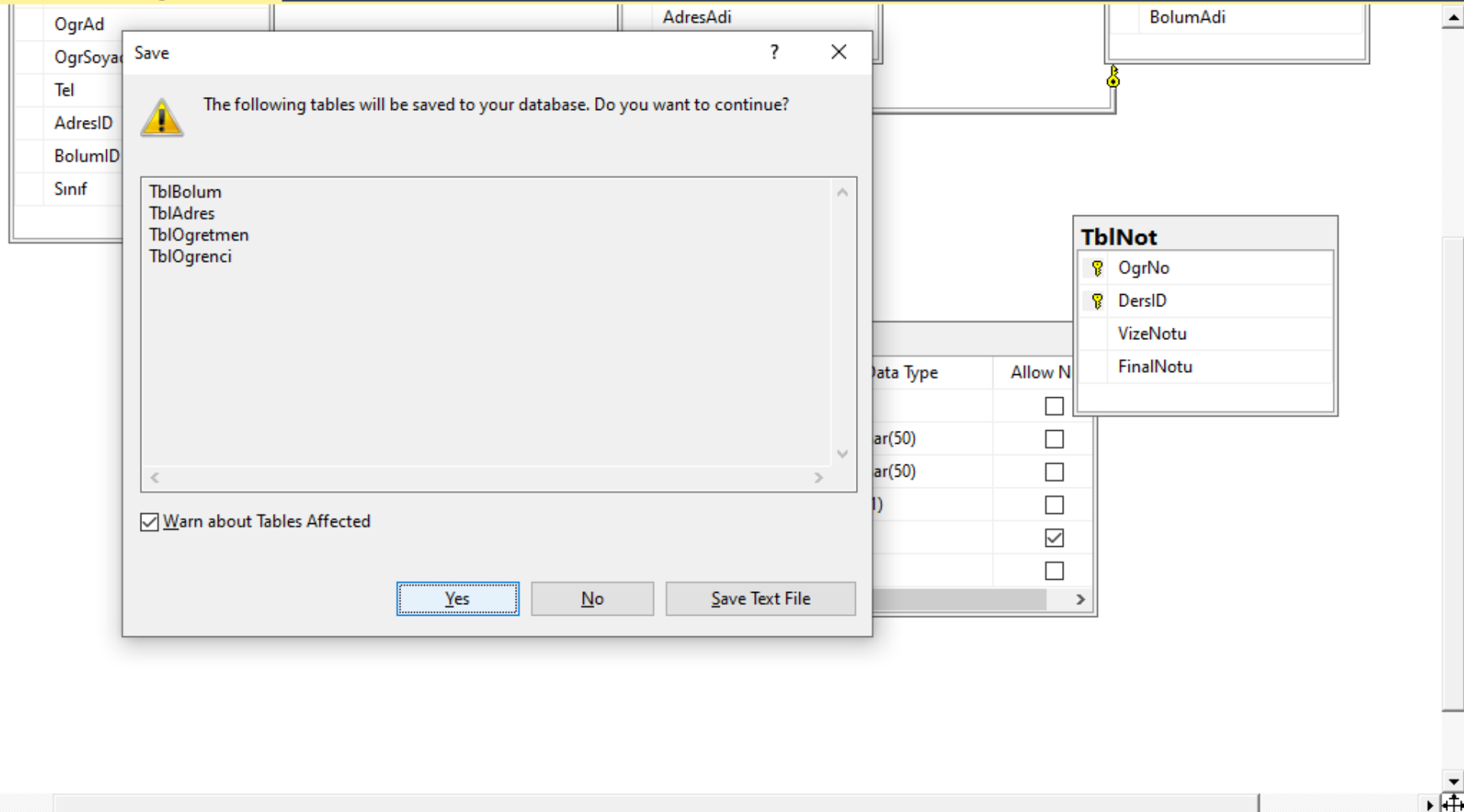


Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Se
- Databases
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 - Security
 - Security
 - Server Objects
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DESKTOP-VBTUPEG\...UniDB - Diagram_0*



Save

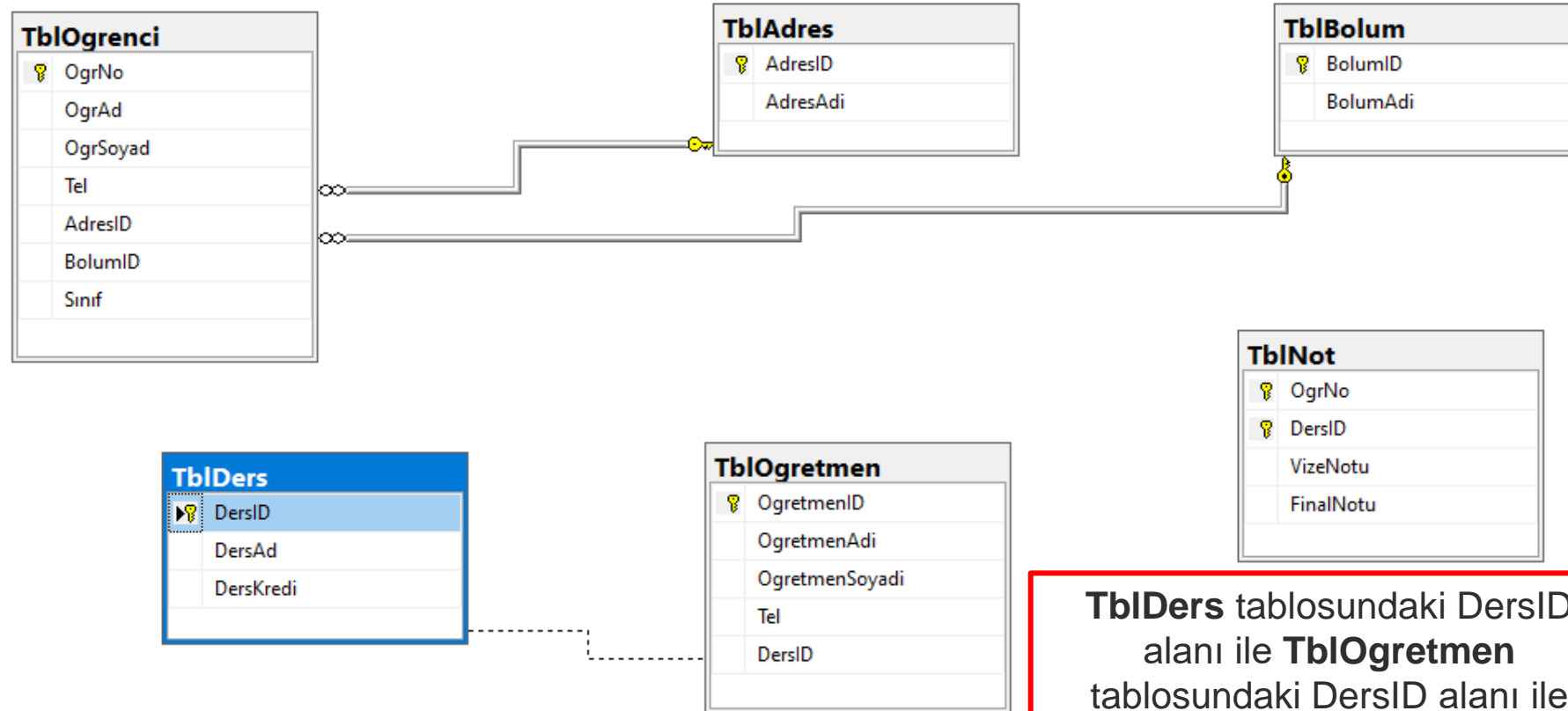
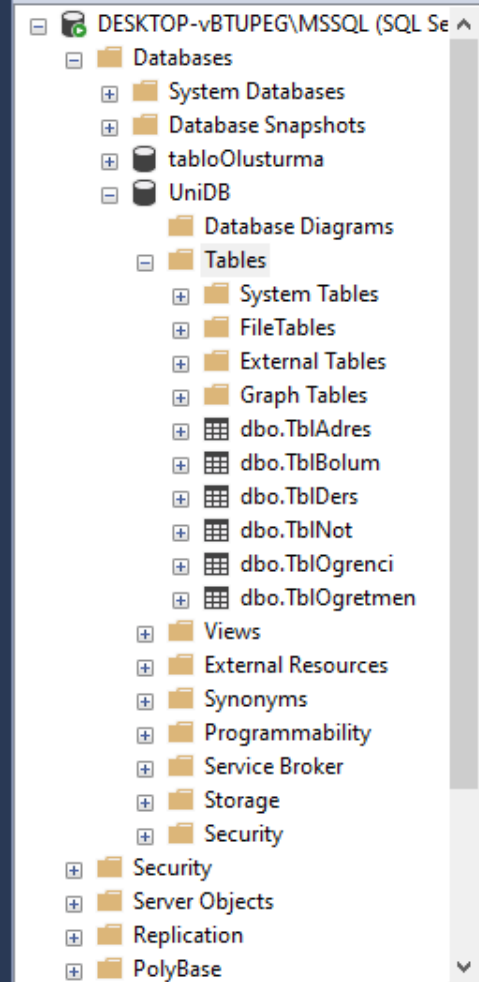
The following tables will be saved to your database. Do you want to continue?

- TblBolum
- TblAdres
- TblOgretmen
- TblOgrenci

Warn about Tables Affected

Yes No Save Text File



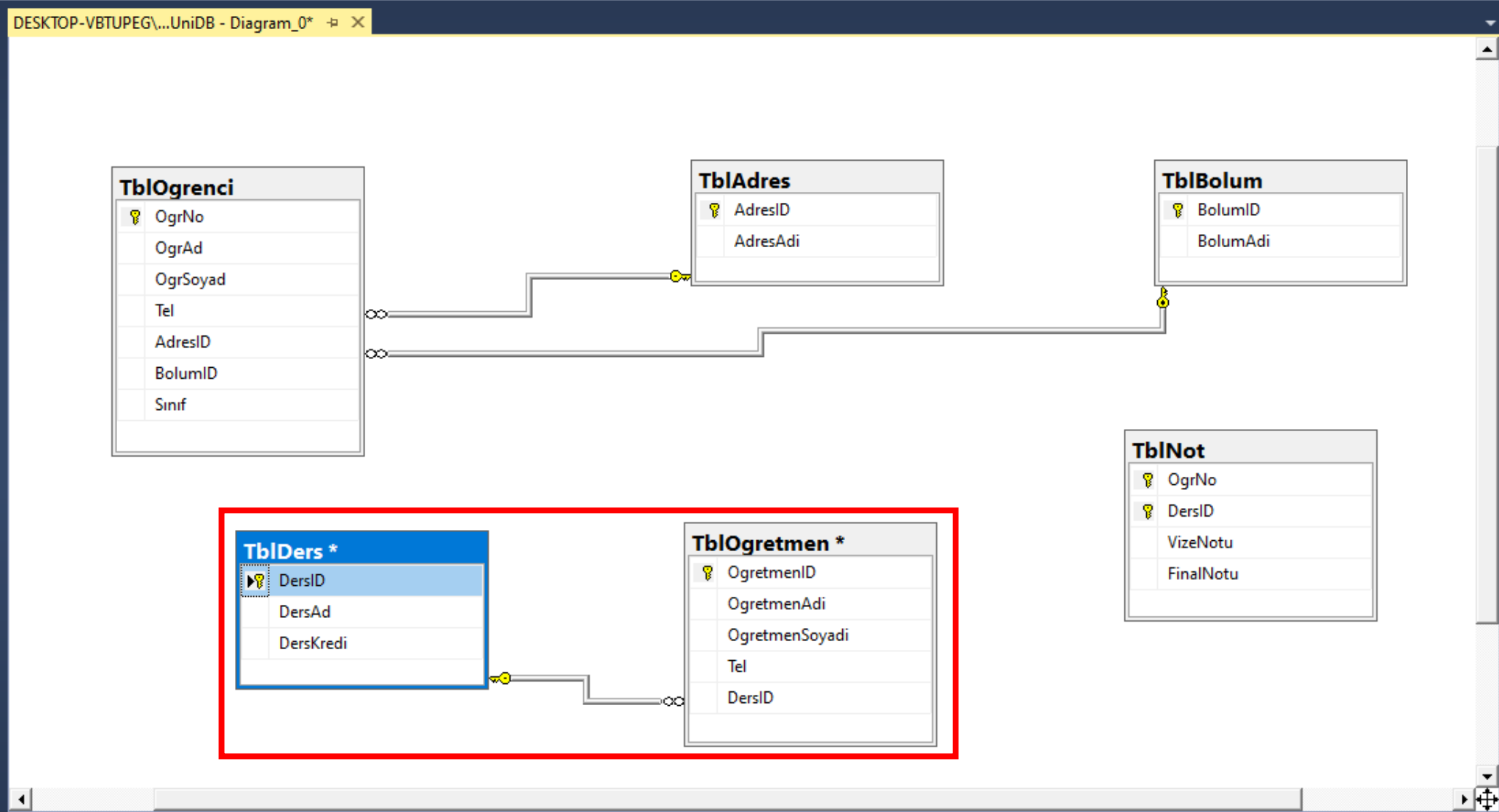


TblDers tablosundaki DersID alanı ile **TblOgretmen** tablosundaki DersID alanı ile ilişkilendiriyoruz.

Object Explorer

Connect [Server Icon] [Database Icon] [Filter Icon] [Refresh Icon] [Star Icon]

- DESKTOP-vBTUPEG\MSSQL (SQL Se ^
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
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 - Graph Tables
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 - dbo.TblNot
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 - dbo.TblOgretmen
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 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase

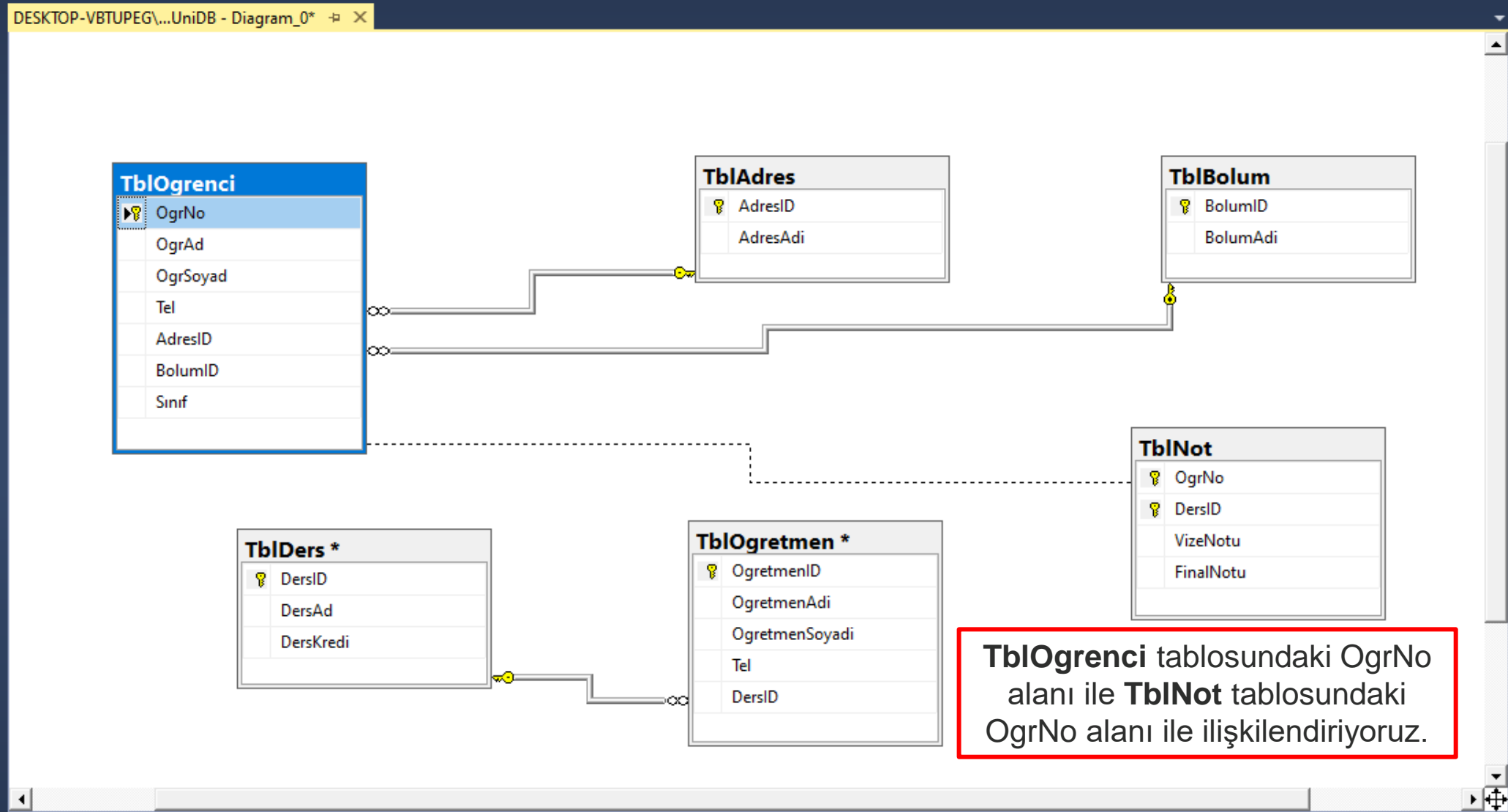




Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Se
- Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
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 - dbo.TblDers
 - dbo.TblNot
 - dbo.TblOgrenci
 - dbo.TblOgretmen
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase



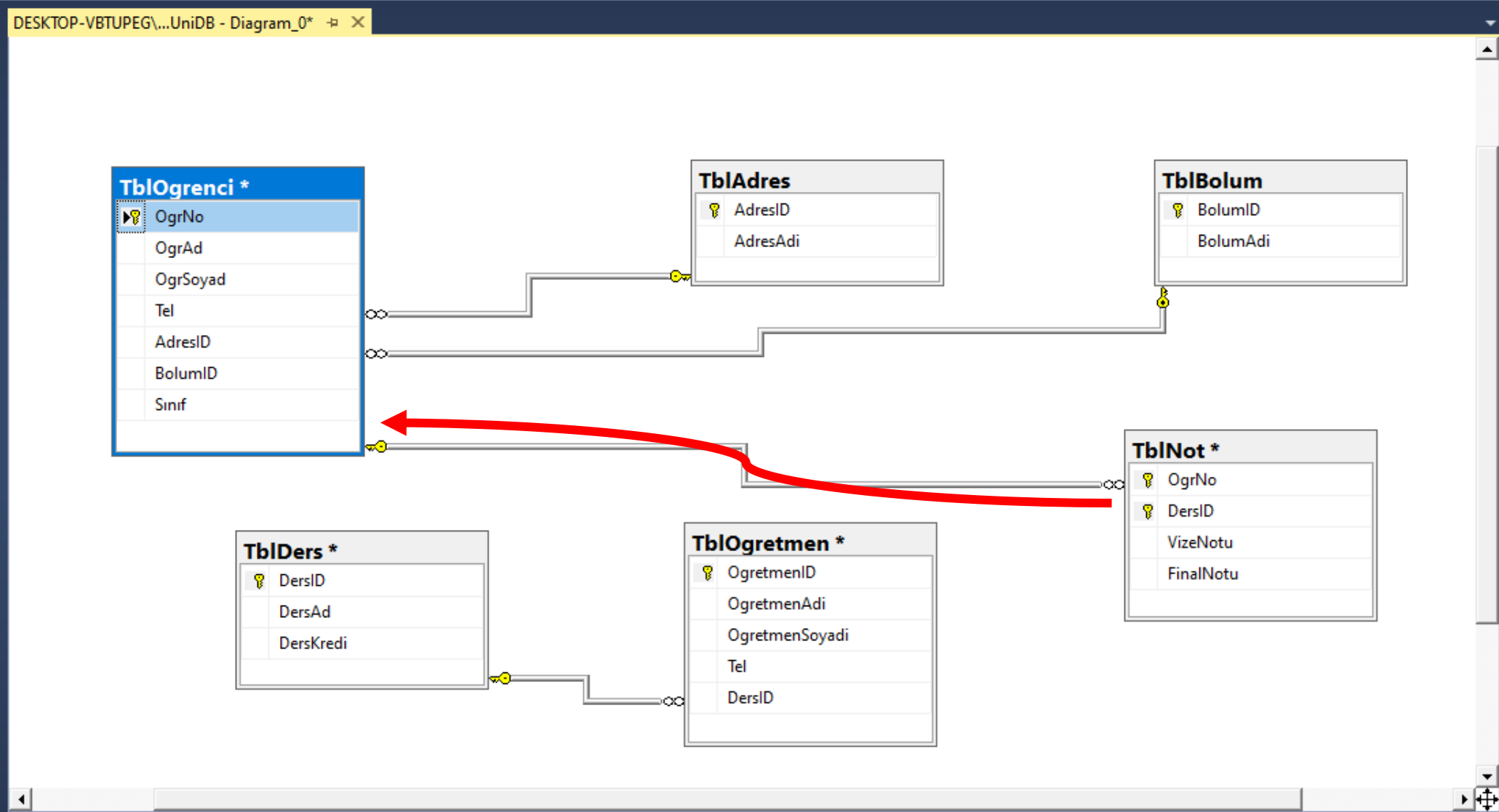
TblOgrenci tablosundaki OgrNo alanı ile **TblNot** tablosundaki OgrNo alanı ile ilişkilendiriyoruz.



Object Explorer

Connect [Icons]

- DESKTOP-vBTUPEG\MSSQL (SQL Se
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblNot
 - dbo.TblOgrenci
 - dbo.TblOgretmen
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase

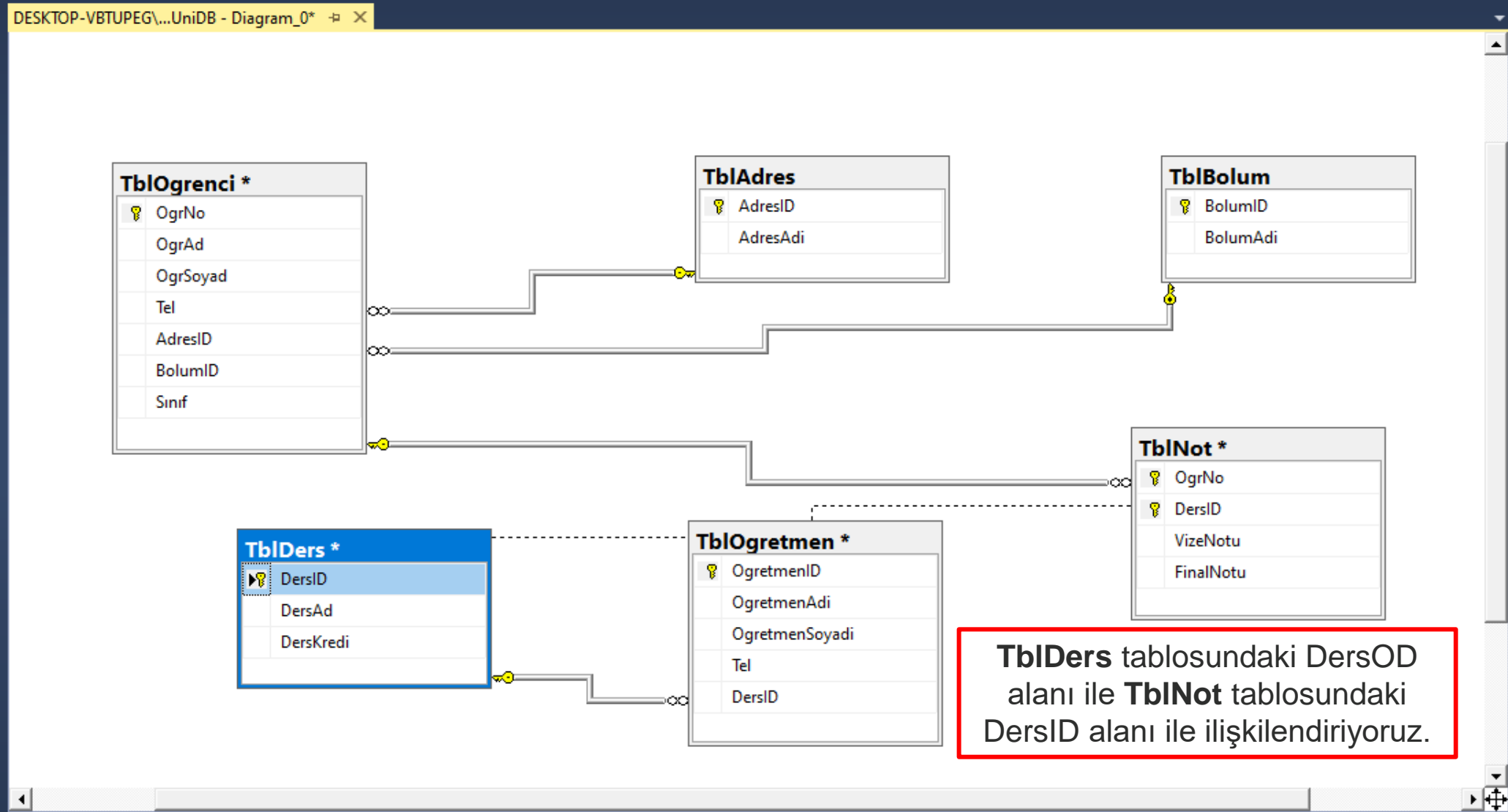




Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Se ^
- Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblNot
 - dbo.TblOgrenci
 - dbo.TblOgretmen
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase



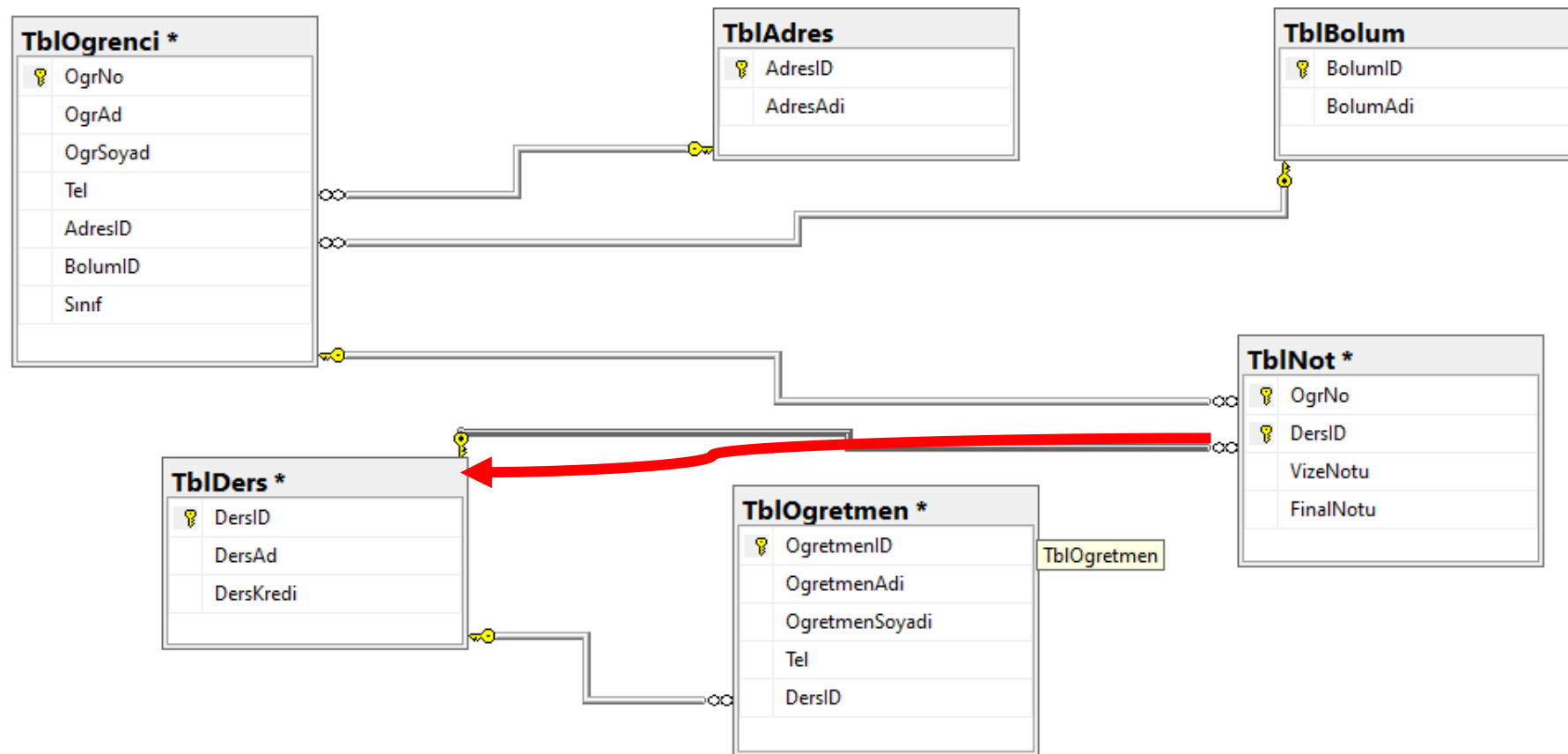


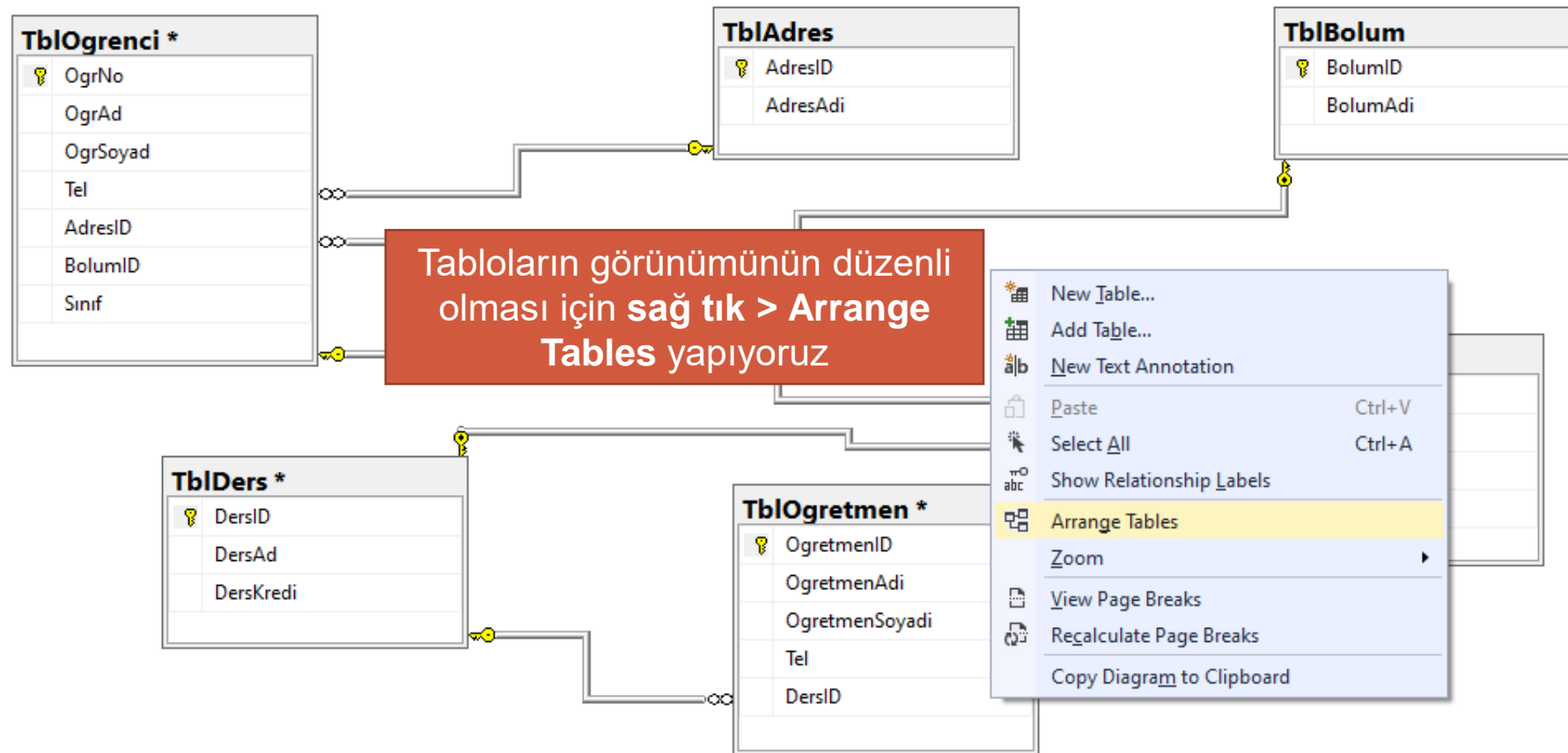
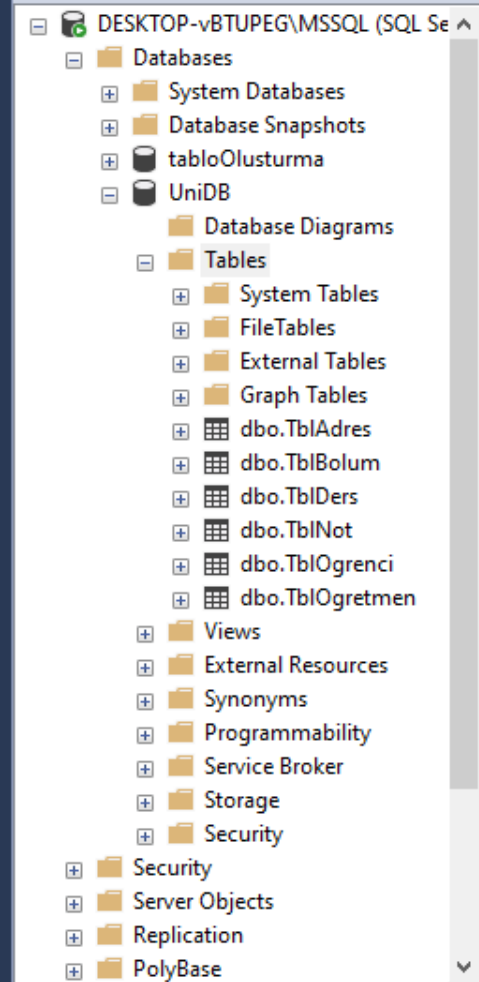
Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Se ^
- Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
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 - dbo.TblDers
 - dbo.TblNot
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 - dbo.TblOgretmen
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 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase

DESKTOP-VBTUPEG\...UniDB - Diagram_0*



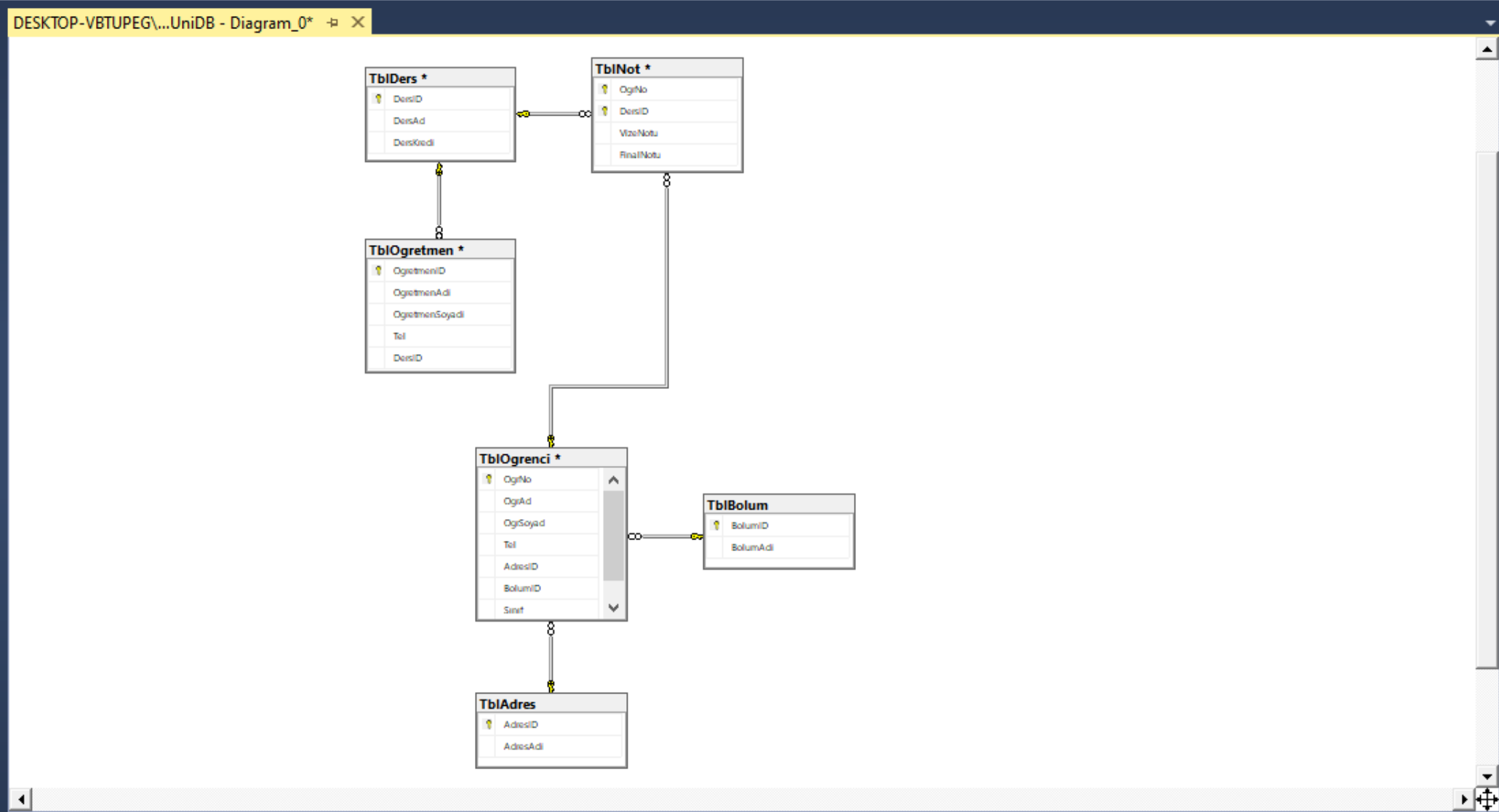




Object Explorer

Connect [Server Icon] [Refresh] [Disconnect]

- DESKTOP-vBTUPEG\MSSQL (SQL Se
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
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 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblNot
 - dbo.TblOgrenci
 - dbo.TblOgretmen
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 - Programmability
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 - Server Objects
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 - PolyBase





Object Explorer

Connect

DESKTOP-vBTUPEG\MSSQL (SQL Se

Databases

System Databases

Database Snapshots

tabloOlusturma

UniDB

Database Diagrams

Tables

System Tables

FileTables

External Tables

Graph Tables

dbo.TblAdres

dbo.TblBolum

dbo.TblDers

dbo.TblNot

dbo.TblOgrenci

dbo.TblOgretmen

Views

External Resources

Synonyms

Programmability

Service Broker

Storage

Security

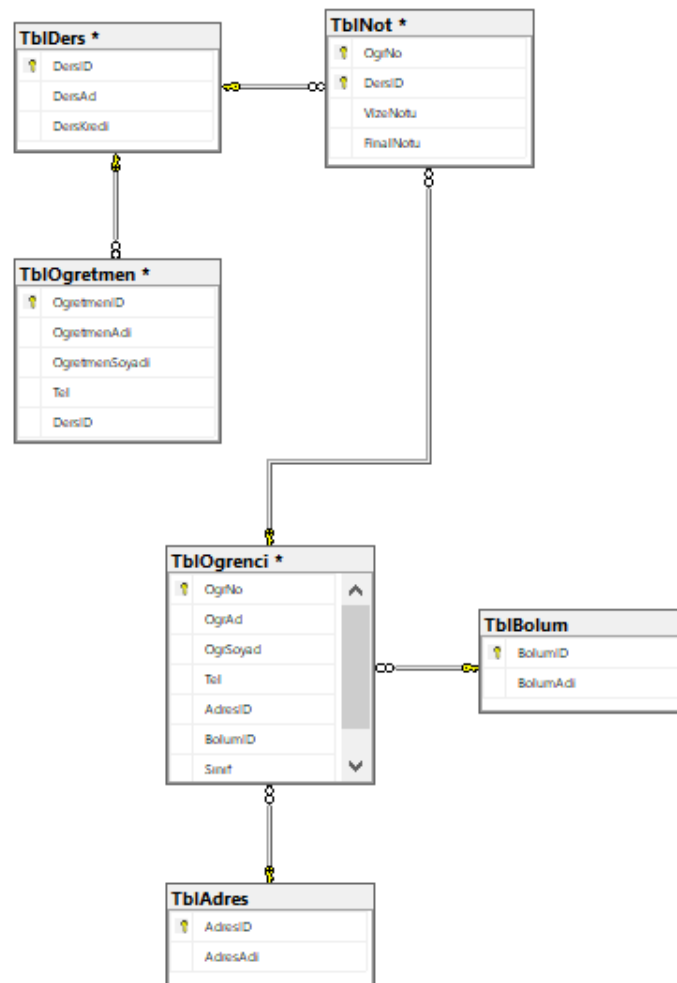
Security

Server Objects

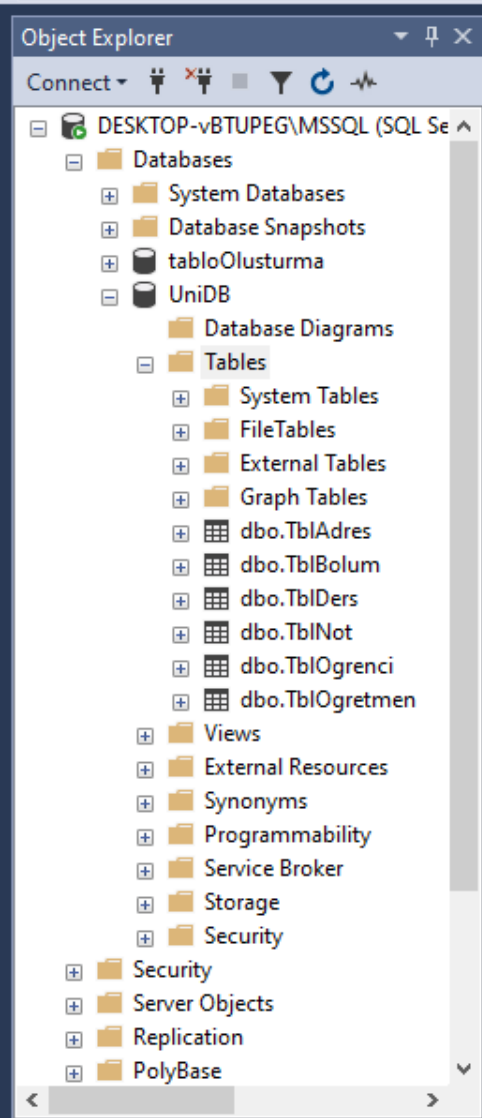
Replication

PolyBase

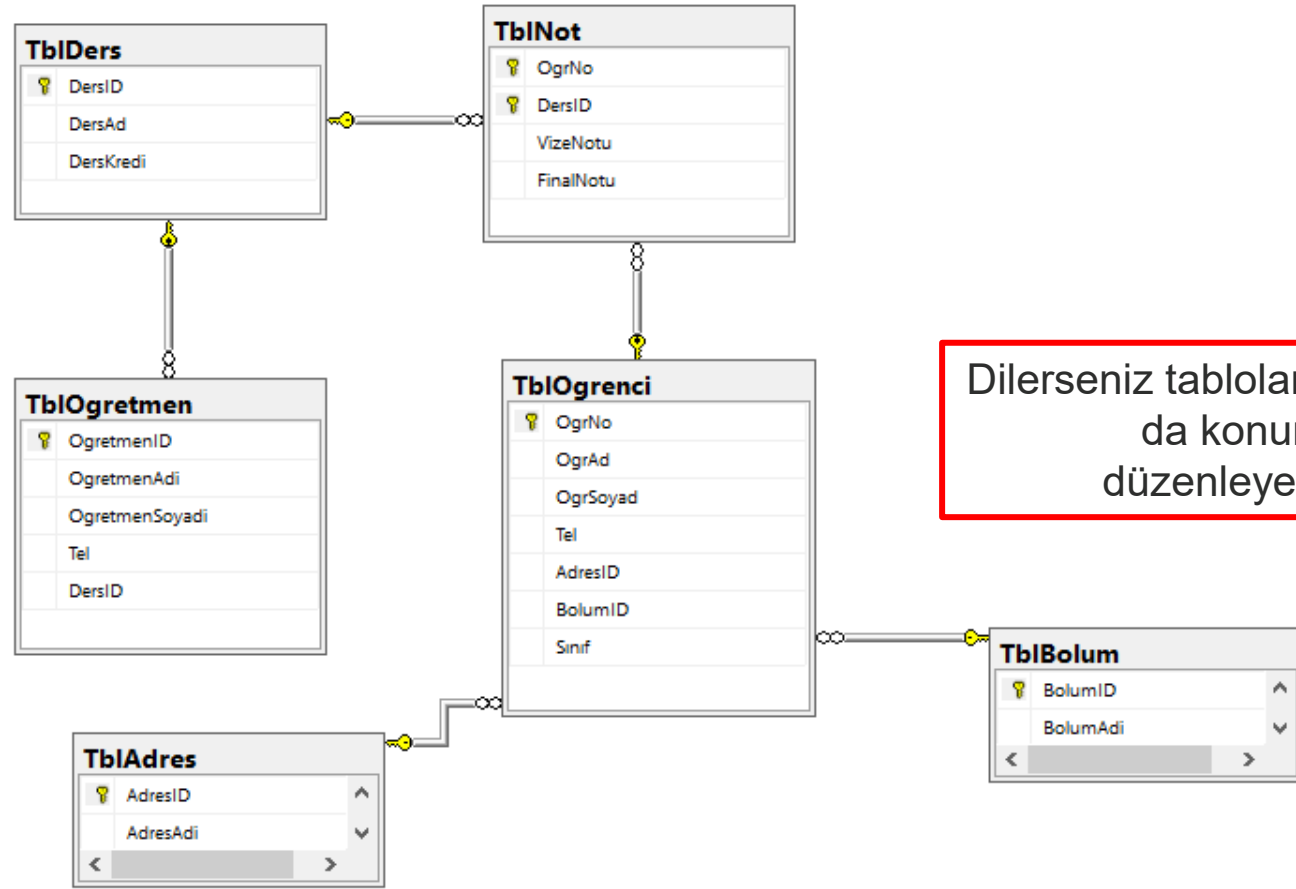
DESKTOP-VBTUPEG\...UniDB - Diagram_0*



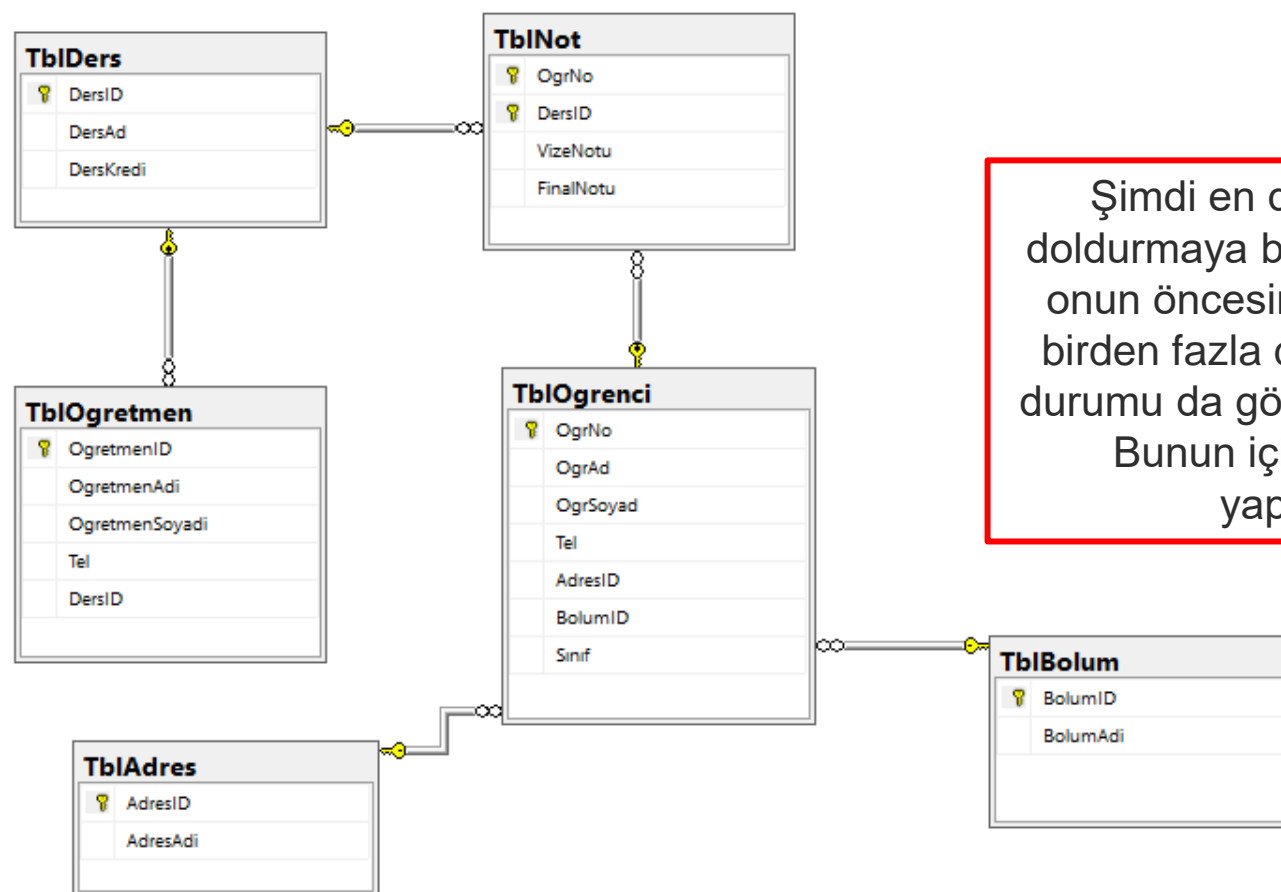
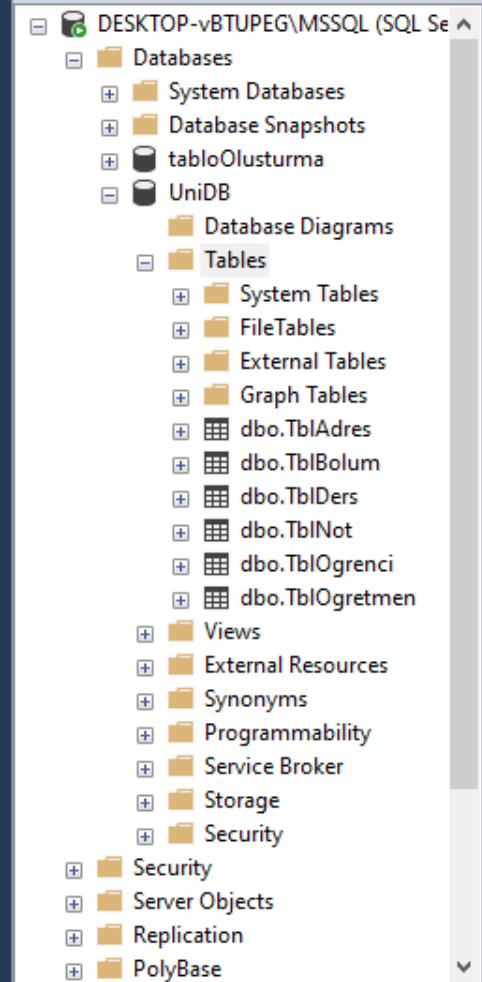
Item(s) Saved



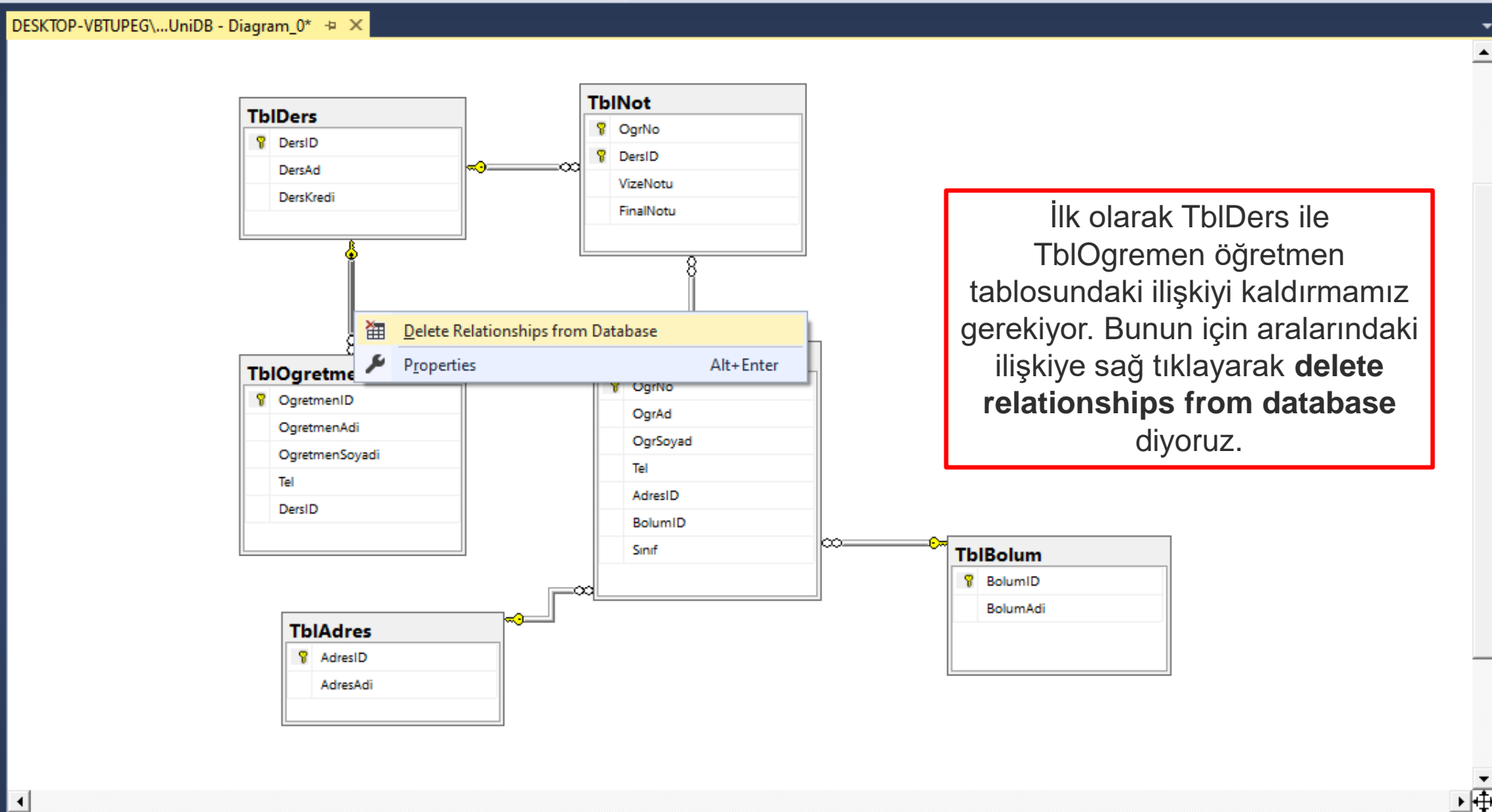
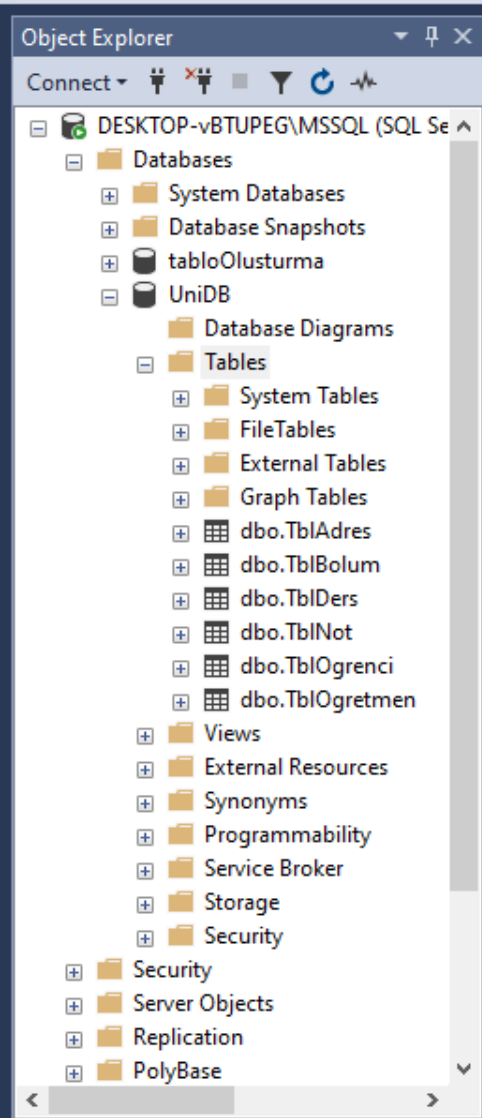
DESKTOP-VBTUPEG\...UniDB - Diagram_0*



Dilerseniz tabloları manuel olarak da konumlarını düzenleyebilirsiniz.



Şimdi en dıştaki tabloları doldurmaya başlayacağız. Ama onun öncesinde bir öğretmen birden fazla derse girebilir. Bu durumu da göz önüne almalıyız. Bunun için düzenleme yapacağız.



İlk olarak TblDers ile TblOgretmen öğretmen tablosundaki ilişkiyi kaldırmamız gerekiyor. Bunun için aralarındaki ilişkiye sağ tıklayarak **delete relationships from database** diyoruz.



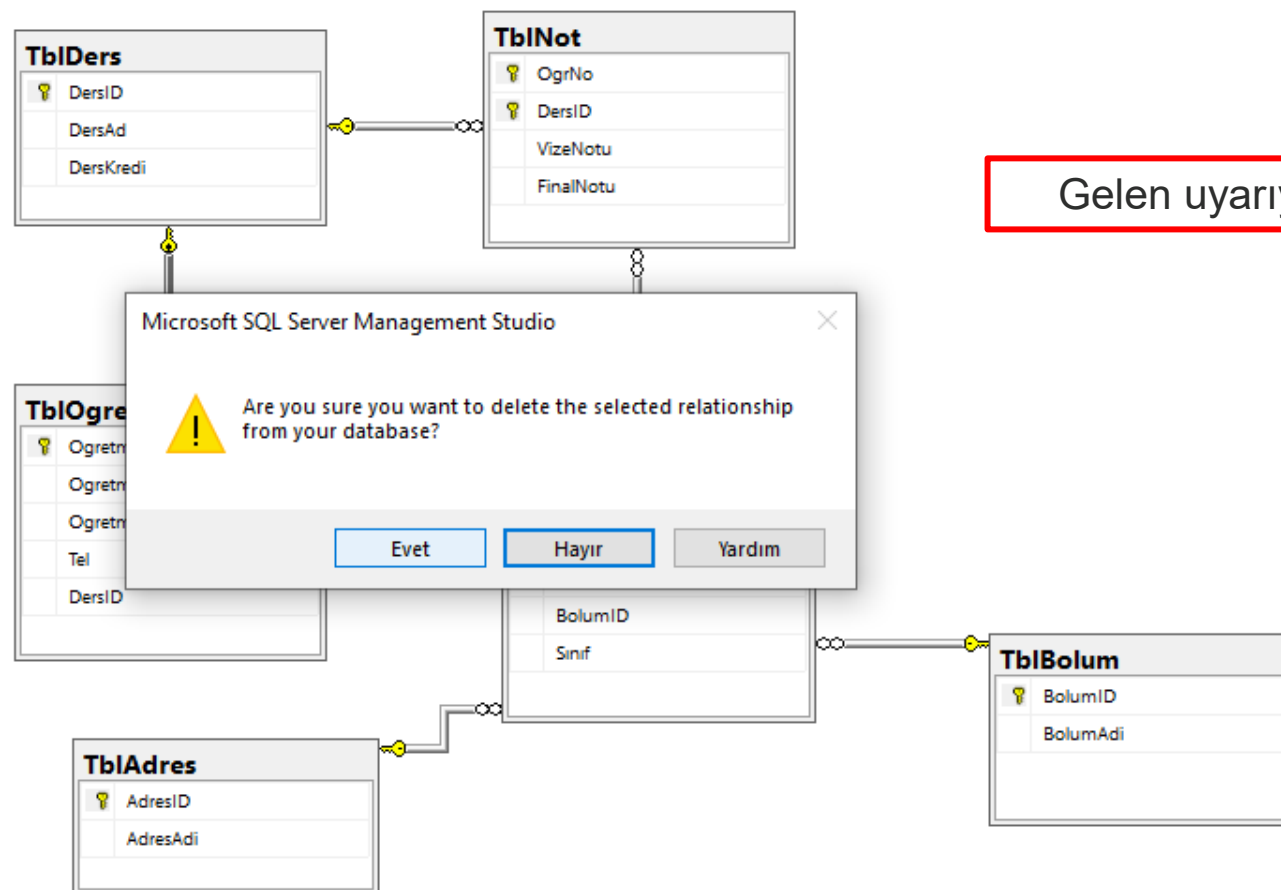
Object Explorer

Connect

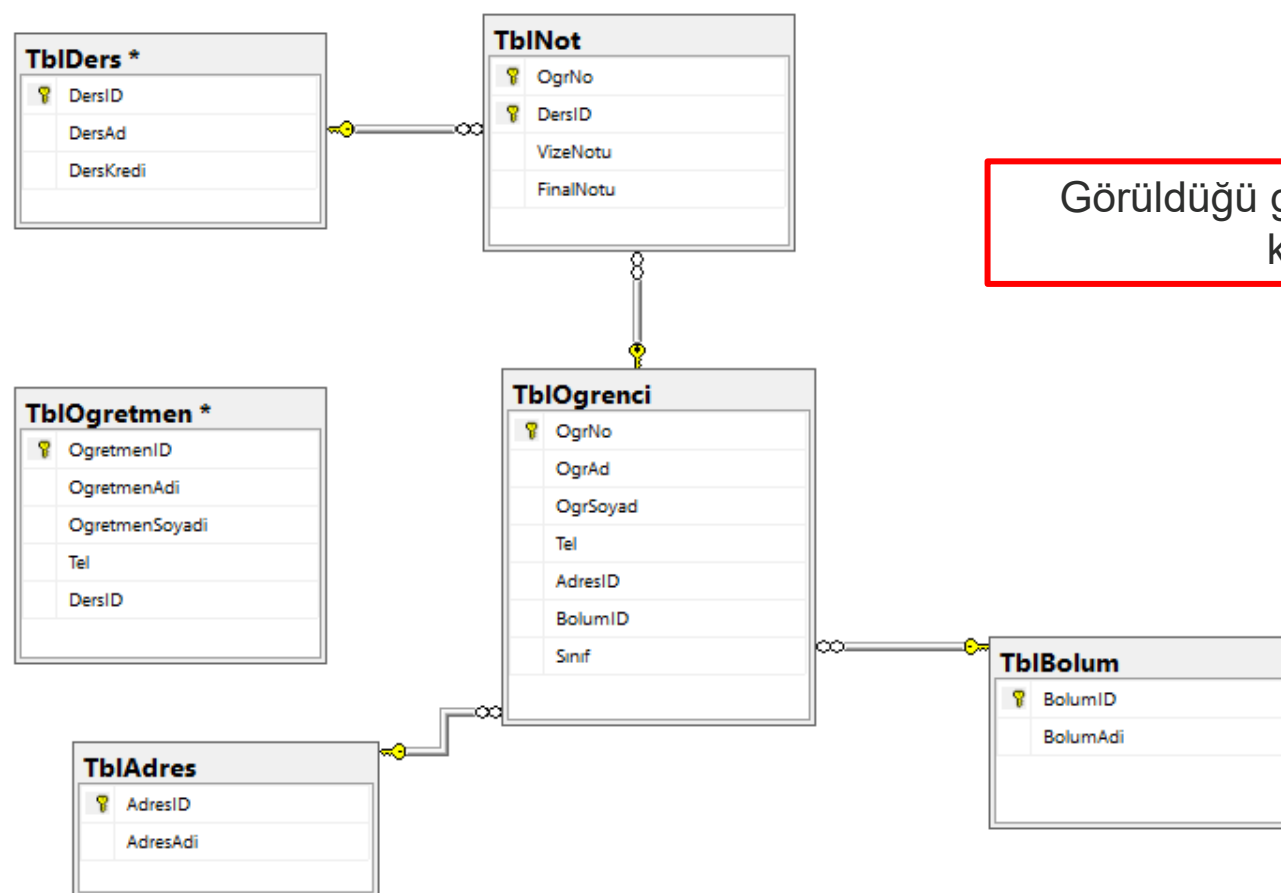
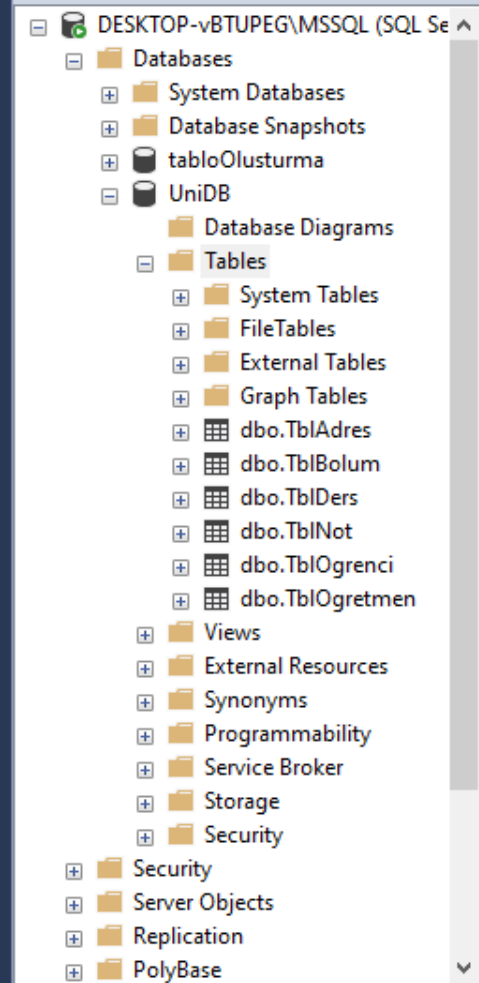
DESKTOP-vBTUPEG\MSSQL (SQL Se

- Databases
 - System Databases
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 - tabloOlusturma
 - UniDB
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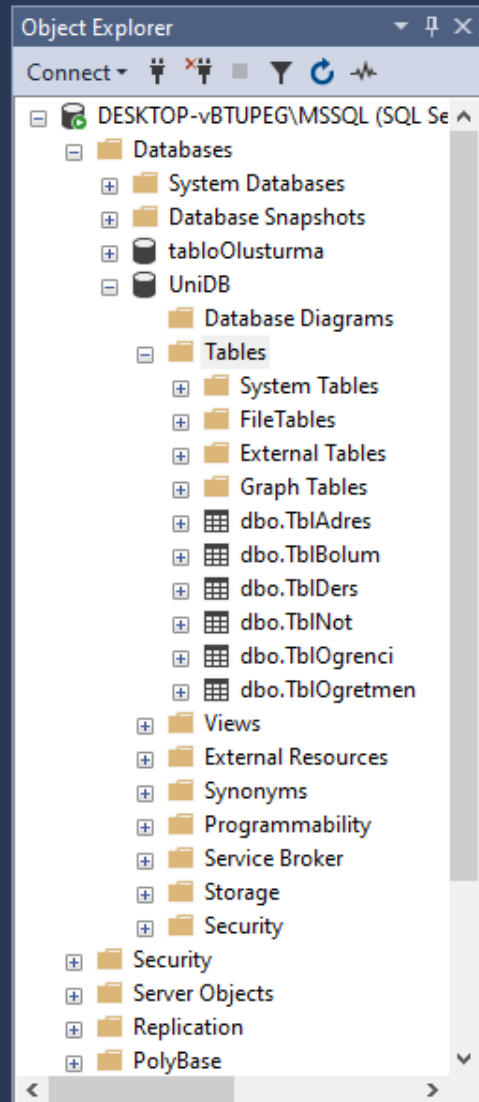
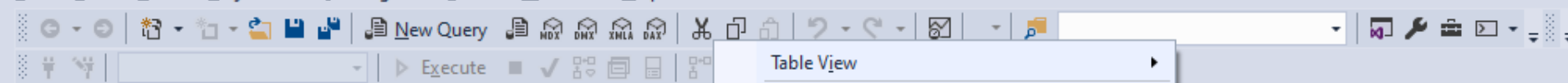
DESKTOP-VBTUPEG\...UniDB - Diagram_0*



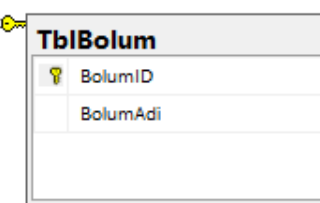
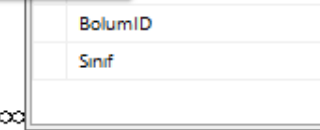
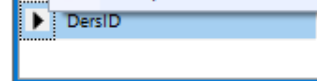
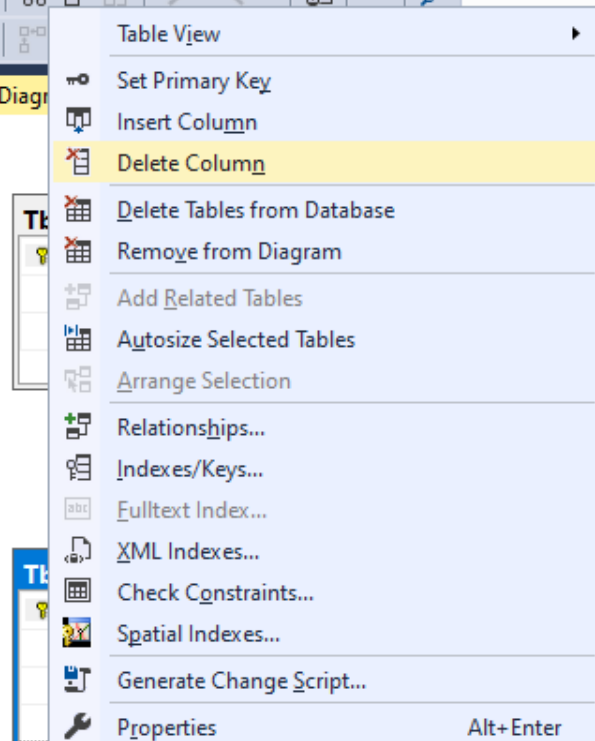
Gelen uyarıya **Evet** diyoruz.



Görüldüğü gibi ilişki ortadan kalktı.



DESKTOP-VBTUPEG\...UniDB - Diagram



TblOgretmen tablosundaki
DersID sütununu siliyoruz.



Object Explorer

DESKTOP-vBTUPEG\MSSQL (SQL Se)

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 - Replication
 - PolyBase

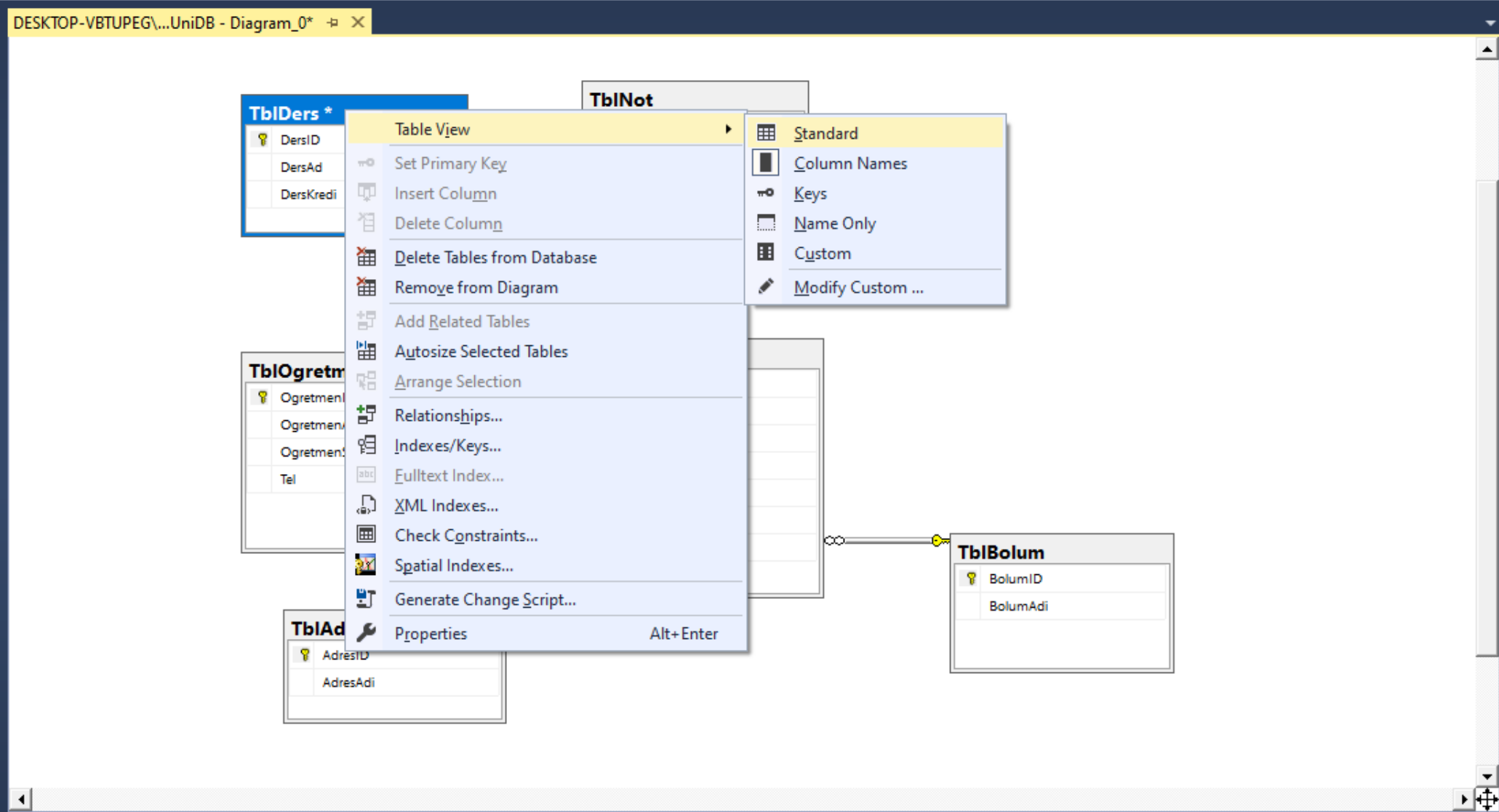


Table View

- Standard
- Column Names
- Keys
- Name Only
- Custom
- Modify Custom ...

- Set Primary Key
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties Alt+Enter



Column Name	Data Type	Allow Nulls
DersID	int	<input type="checkbox"/>
DersAd	nvarchar(50)	<input type="checkbox"/>
DersKredi	tinyint	<input type="checkbox"/>
OgretmenID	int	<input type="checkbox"/>

Column Name	Data Type	Allow Nulls
OgretmenID	int	<input type="checkbox"/>
OgretmenAdi	nvarchar(50)	<input type="checkbox"/>
OgretmenSoyadi	nvarchar(50)	<input type="checkbox"/>
Tel	nvarchar(20)	<input type="checkbox"/>

Column Name	Data Type	Allow Nulls
OgrNo	int	<input type="checkbox"/>
OgrAd	nvarchar(50)	<input type="checkbox"/>
OgrSoyad	nvarchar(50)	<input type="checkbox"/>
Tel	nvarchar(20)	<input type="checkbox"/>
AdresID	int	<input type="checkbox"/>
BolumID	int	<input type="checkbox"/>
Sinif	nvarchar(20)	<input type="checkbox"/>

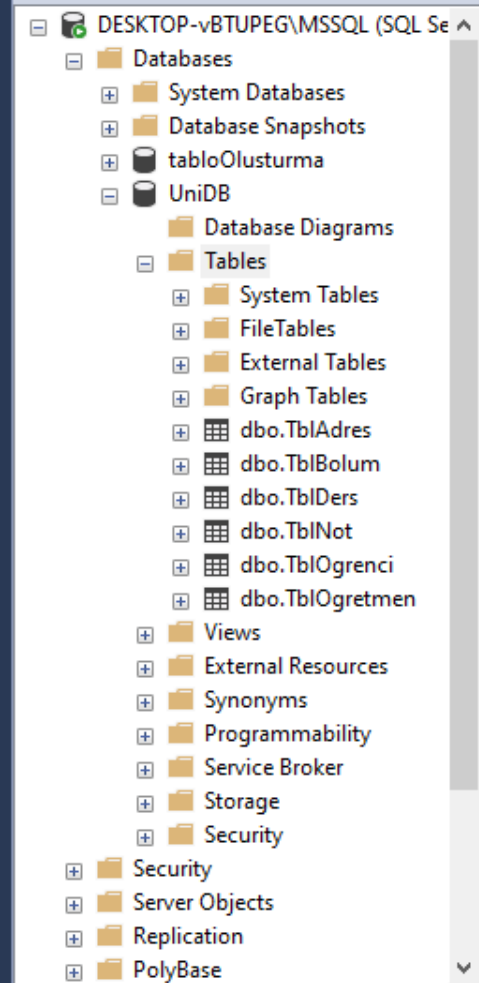
Column Name	Data Type	Allow Nulls
AdresID	int	<input type="checkbox"/>
AdresAdi	nvarchar(50)	<input type="checkbox"/>

TblDers tablosuna OgretmenID
sütununu ekliyoruz.



Object Explorer

Connect



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblDers *		
	Column Name	
	DersID	int
	DersAd	nvarchar
	DersKredi	tinyint
	OgretmenID	int

TblOgretmen *	
	OgretmenID
	OgretmenAdi
	OgretmenSoyadi
	Tel

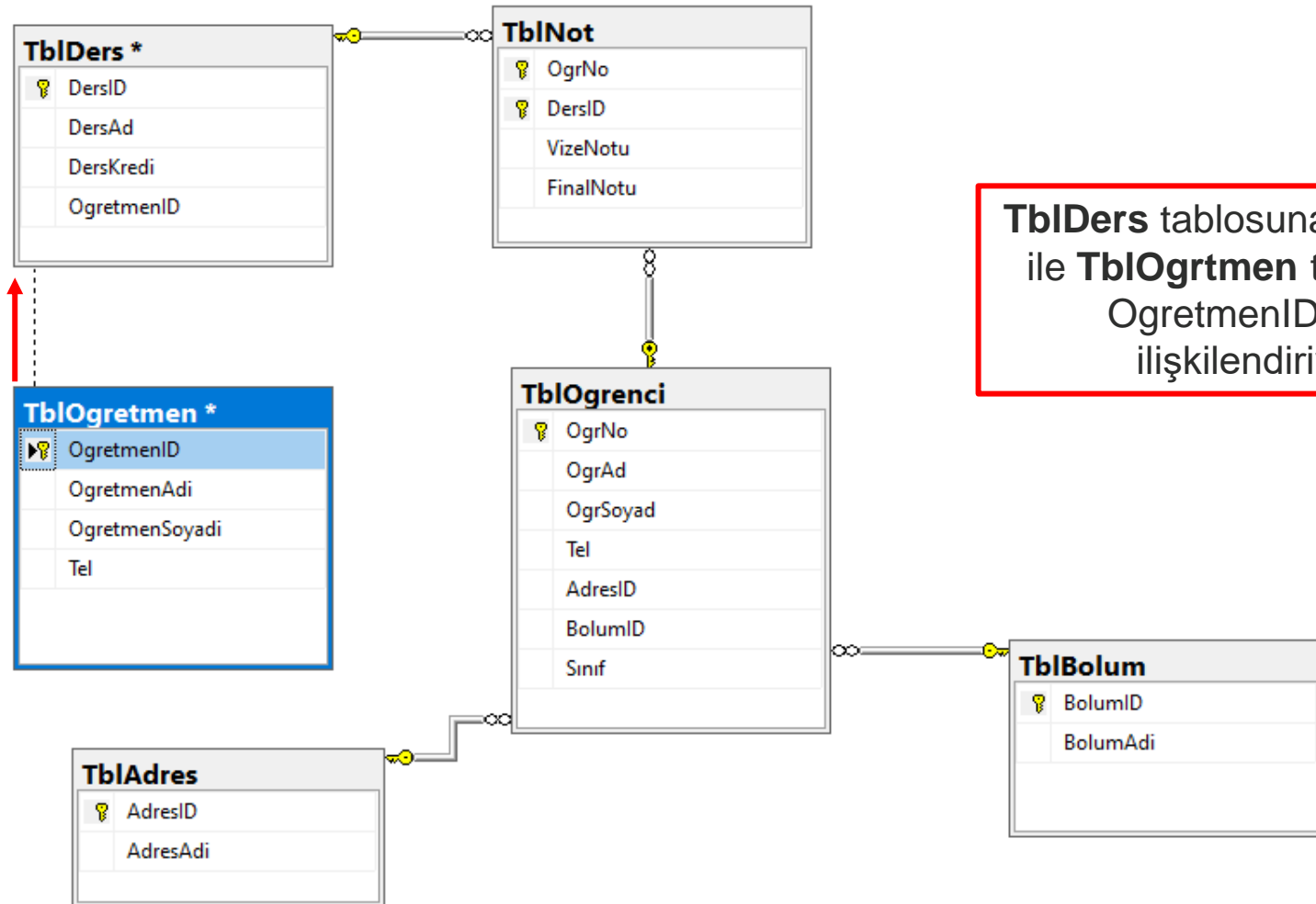
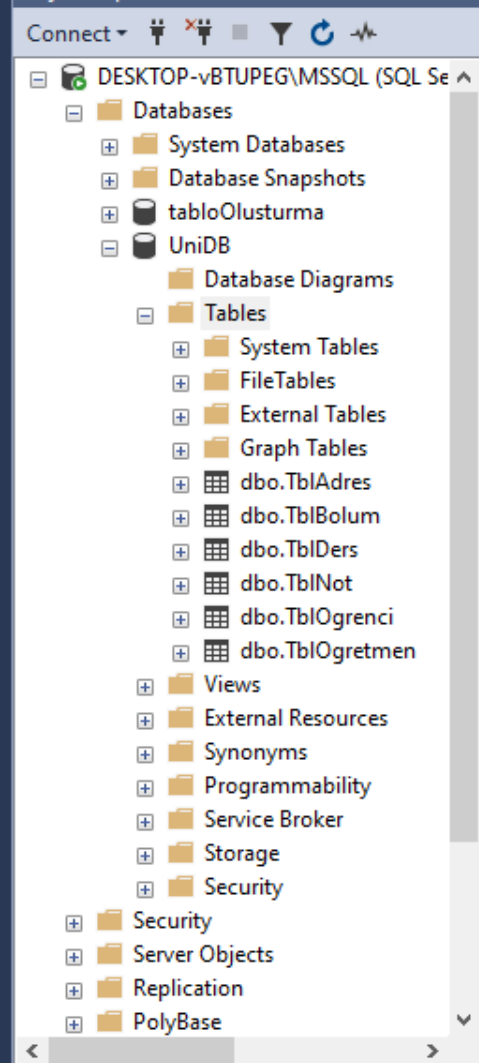
TblAdres	
	AdresID
	AdresAdi

Table View

- Set Primary Key
- Insert Column
- Delete Column
- Delete Tables from Database
- Remove from Diagram
- Add Related Tables
- Autosize Selected Tables
- Arrange Selection
- Relationships...
- Indexes/Keys...
- Fulltext Index...
- XML Indexes...
- Check Constraints...
- Spatial Indexes...
- Generate Change Script...
- Properties Alt+Enter

- Standard
- Column Names
- Keys
- Name Only
- Custom
- Modify Custom ...

TblBolum	
	BolumID
	BolumAdi



TblDers tablosuna OgretmenID ile **TblOgretmen** tablosundaki OgretmenID alanını ilişkilendiriyoruz.



Object Explorer

Connect ▾ 🔌 📶 🔄

- DESKTOP-vBTUPEG\MSSQL (SQL Se
 - Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblNot
 - dbo.TblOgrenci
 - dbo.TblOgretmen
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase

DESKTOP-VBTUPEG\...UniDB - Diagram_0*

TblNot

Foreign Key Relationship

Selected: FK_TblDers_TblOgretmen

Tables and Columns

Relationship name:

Primary key table: Foreign key table:

OgretmenID	OgretmenID

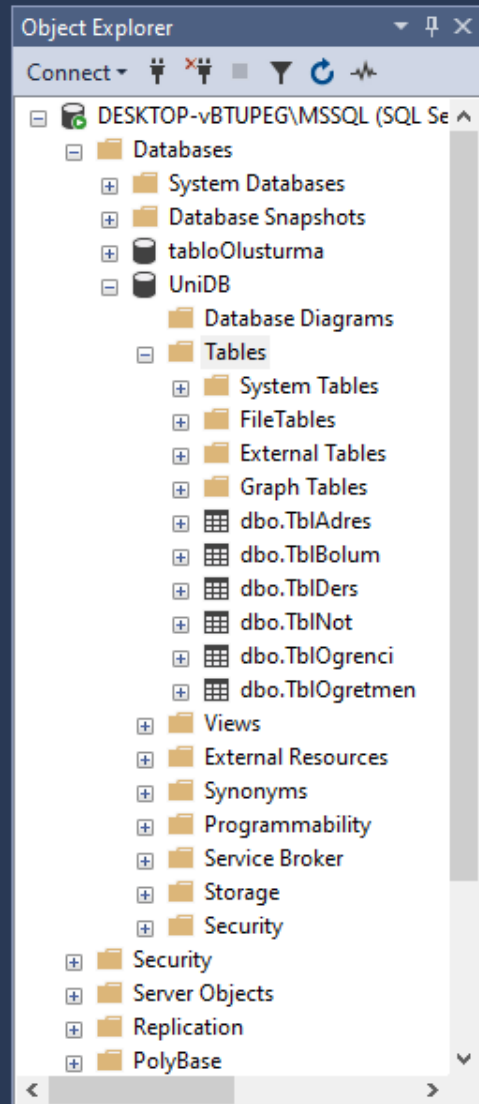
OK Cancel

TblAdres

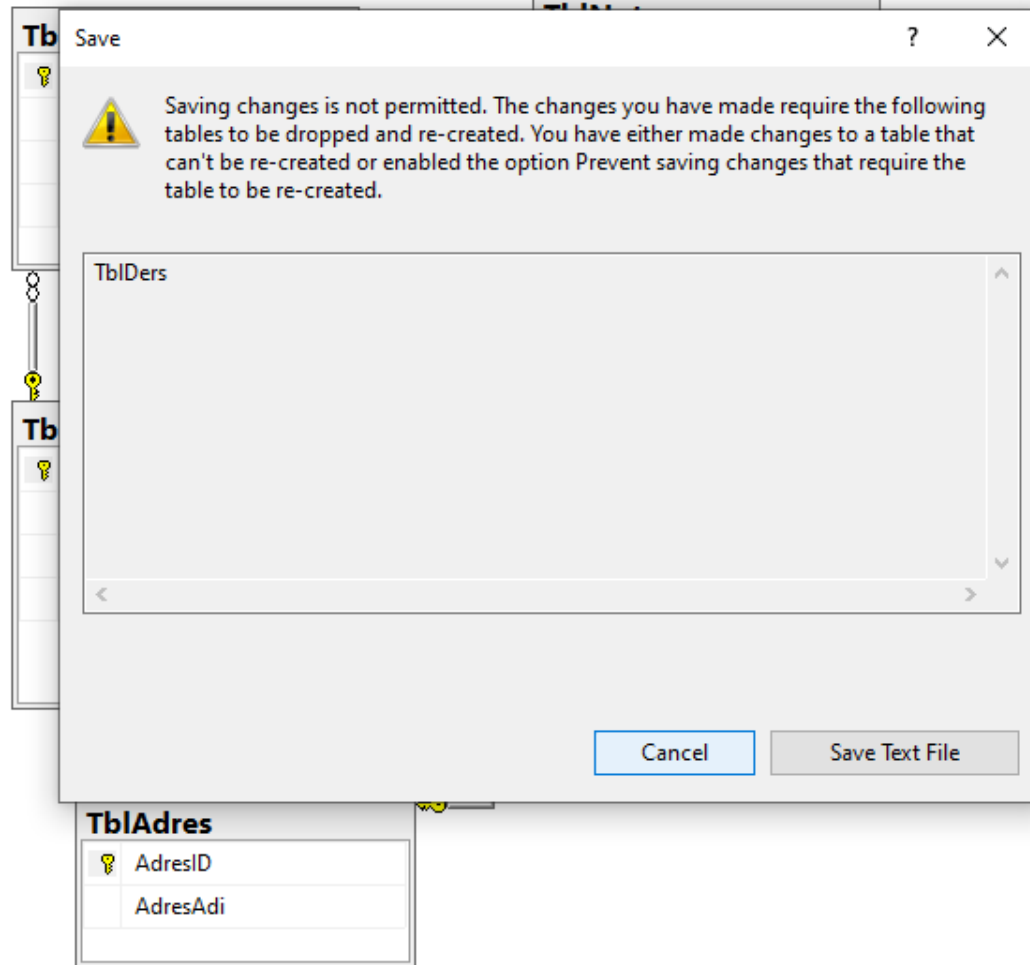
AdresID
AdresAdi

TblBolum

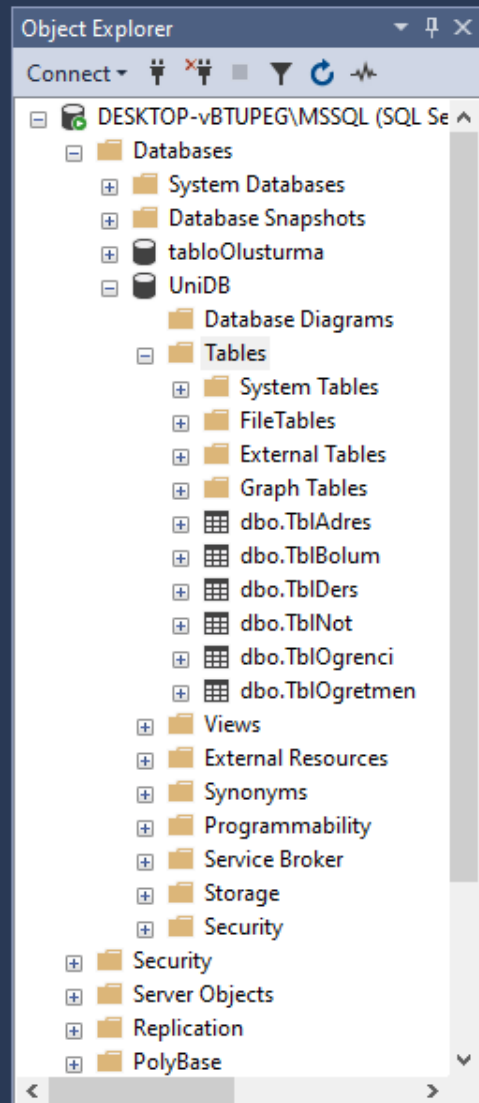
BolumID
BolumAdi



DESKTOP-VBTUPEG\...UniDB - Diagram_0*



Kaydetme işleminde bu şekilde bir hata alıyoruz. Bunun için Tools > Options > Designer > Table and Database Designers menüsüne gidiyoruz.



DESKTOP-VBTUPEG\...UniDB - Diagram_0*

Options

Search Options (Ctrl+E)

- Environment
- Projects and Solutions
- Text Editor
- Query Execution
- Query Results
- Designers
 - Table and Database Designers**
 - Analysis Services Designers
- Azure Services
- SQL Server Always On
- SQL Server Object Explorer
- XEvent Profiler

Table Options

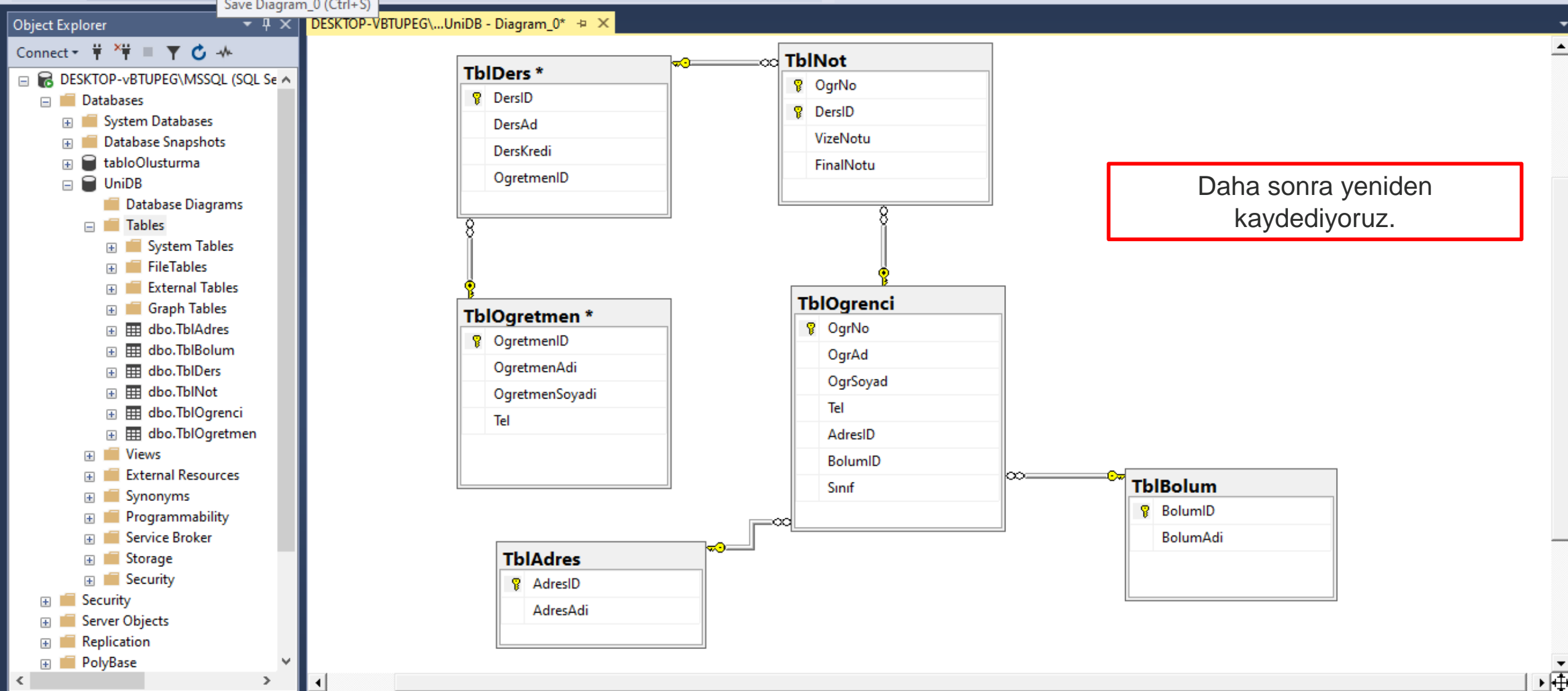
- Override connection string time-out value for table designer updates:
 - Transaction time-out after: seconds
- Auto generate change scripts
- Warn on null primary keys
- Warn about difference detection
- Warn about tables affected
- revent saving changes that require table re-creation**

Diagram Options

Default table view:

OK Cancel

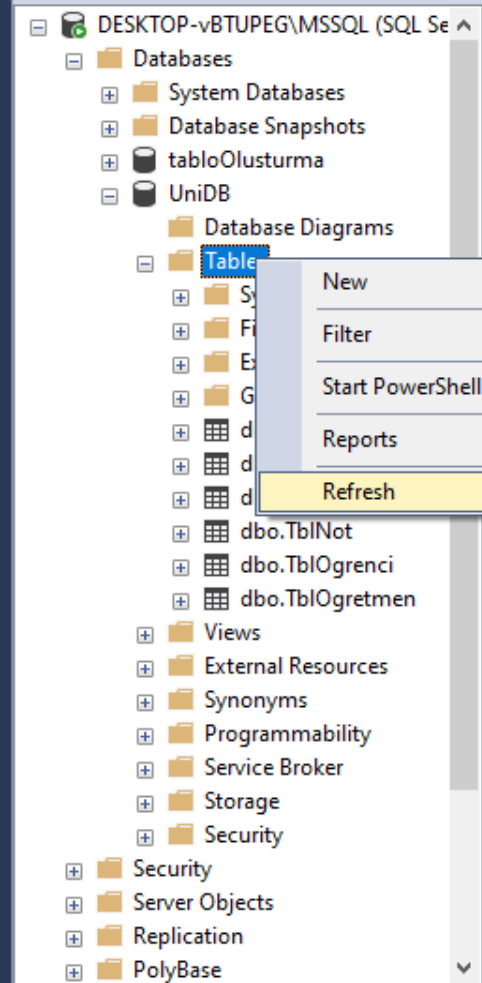
TblAdres	
AdresID	
AdresAdi	



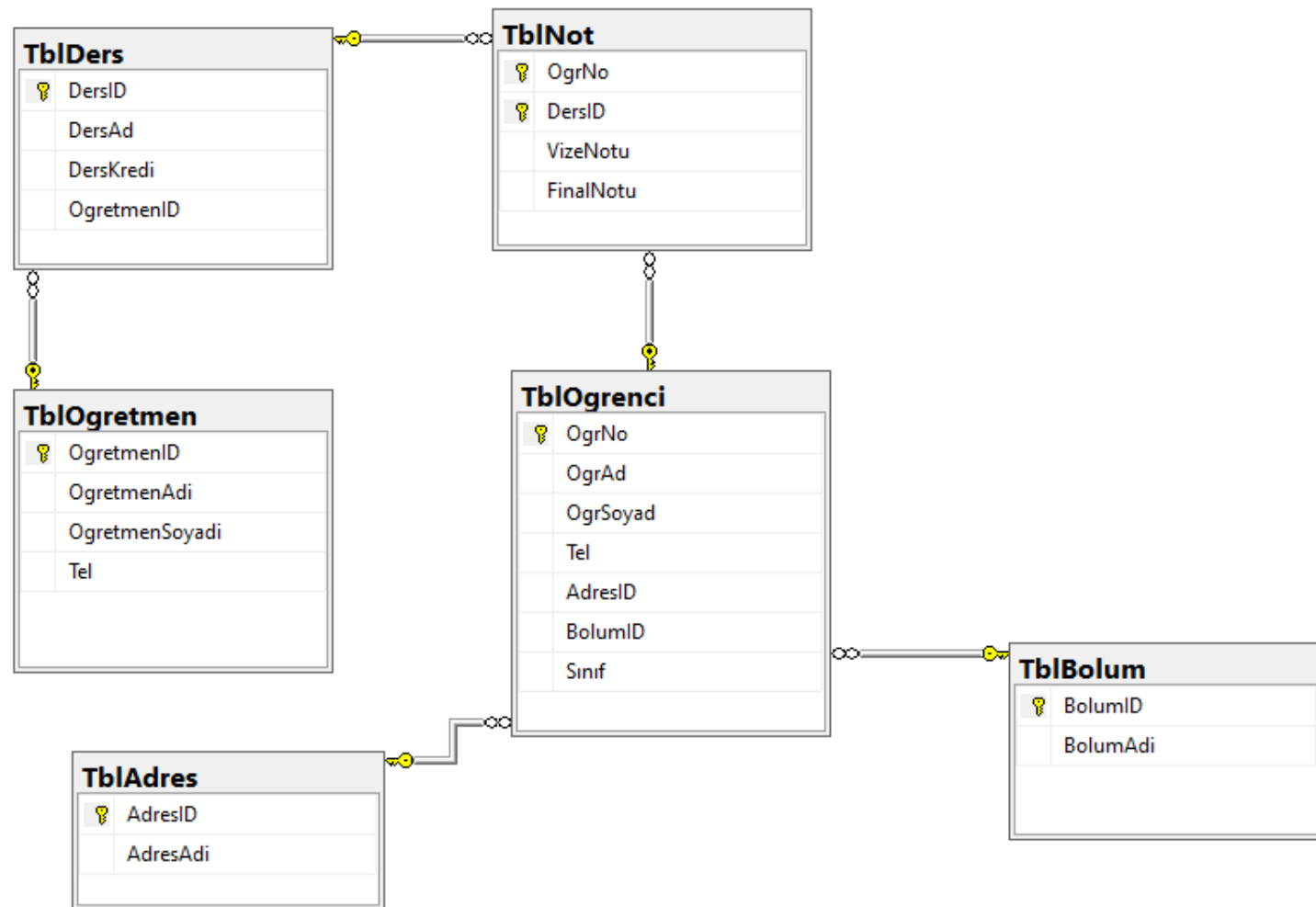


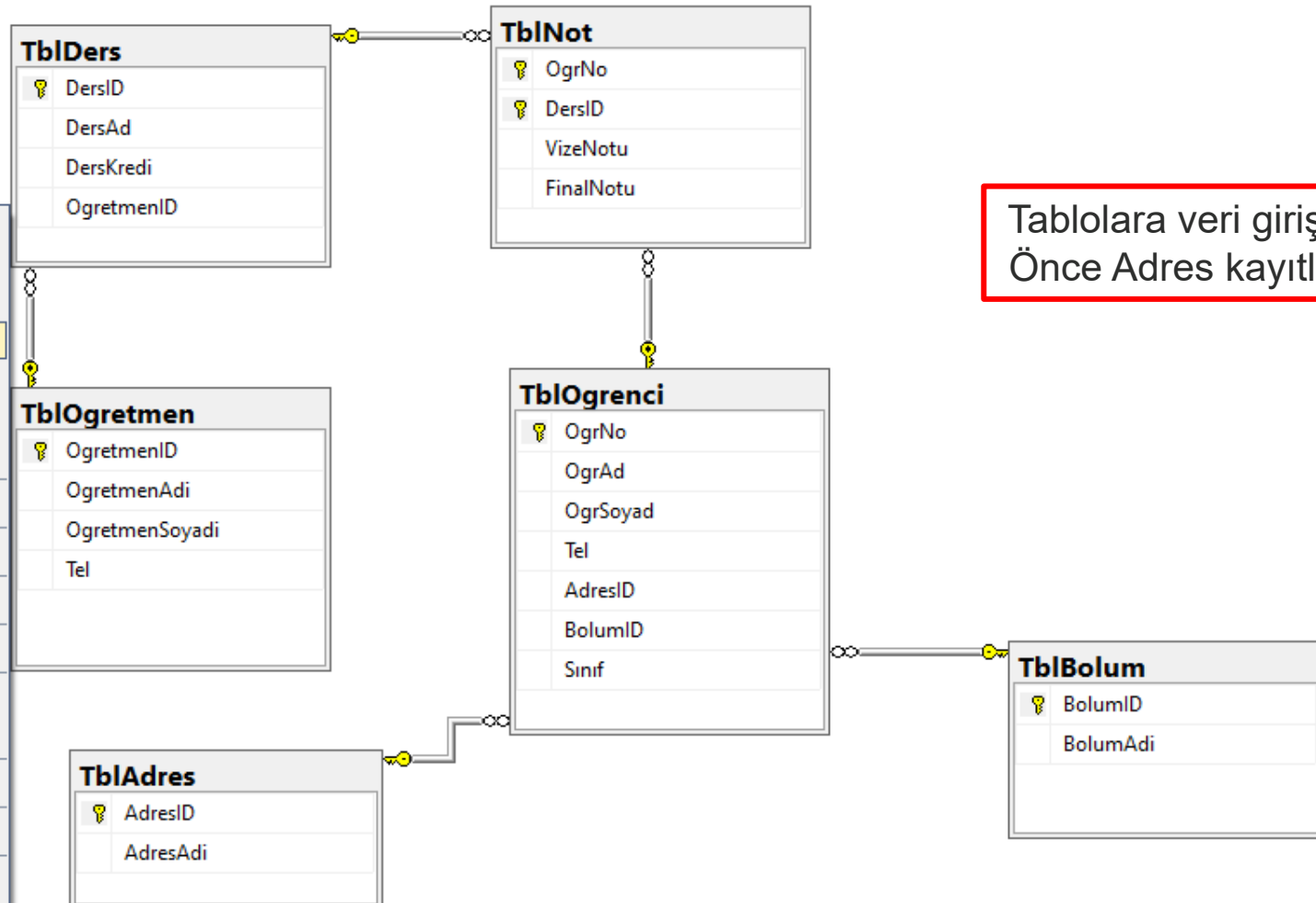
Object Explorer

Connect

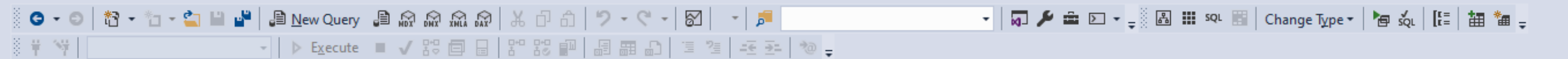


DESKTOP-VBTUPEG\...UniDB - Diagram_0



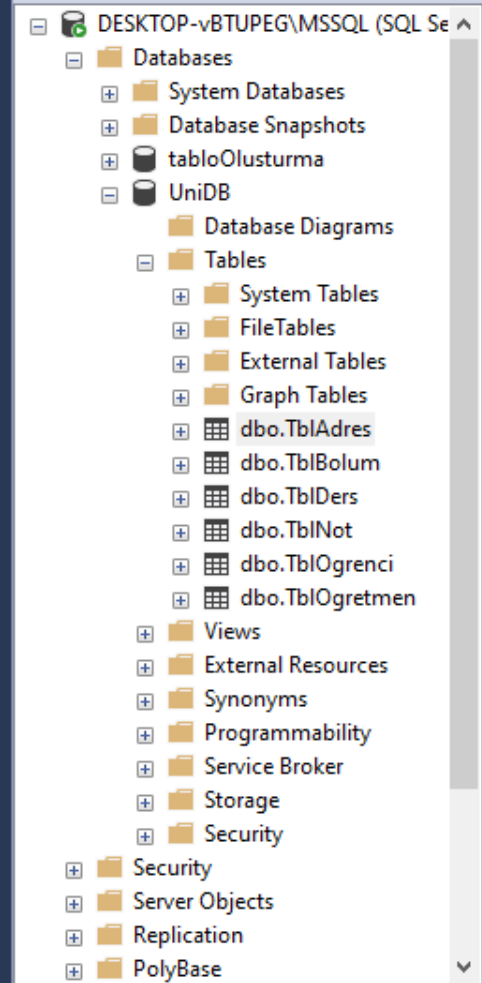


Tablolara veri girişine başlıyoruz.
Önce Adres kayıtlarını gireceğiz.



Object Explorer

Connect



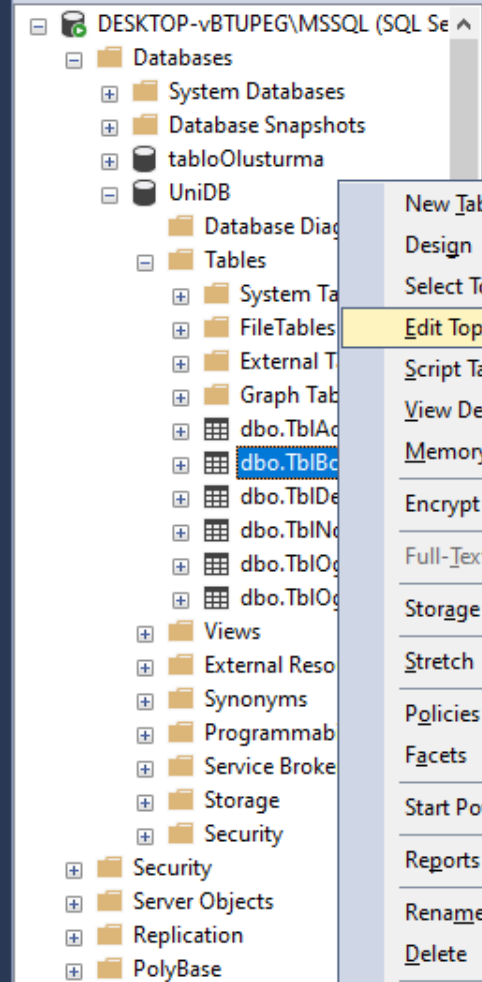
DESKTOP-VBTUPEG\...DB - dbo.TblAdres

	AdresID	AdresAdi
	1	Atatürk Mah.
	2	İstiklal Cad.
	NULL	Kızılay Mah.
*	NULL	NULL

DESKTOP-VBTUPEG\...UniDB - Diagram_0

Veri girişi yaptıktan sonra kaydet
ve kapat yapıyoruz.

3 of 3 | Cell is Modified.



New Table...

Design

Select Top 1000 Rows

Edit Top 500 Rows

Script Table as

View Dependencies

Memory Optimization Advisor

Encrypt Columns...

Full-Text index

Storage

Stretch

Policies

Facets

Start PowerShell

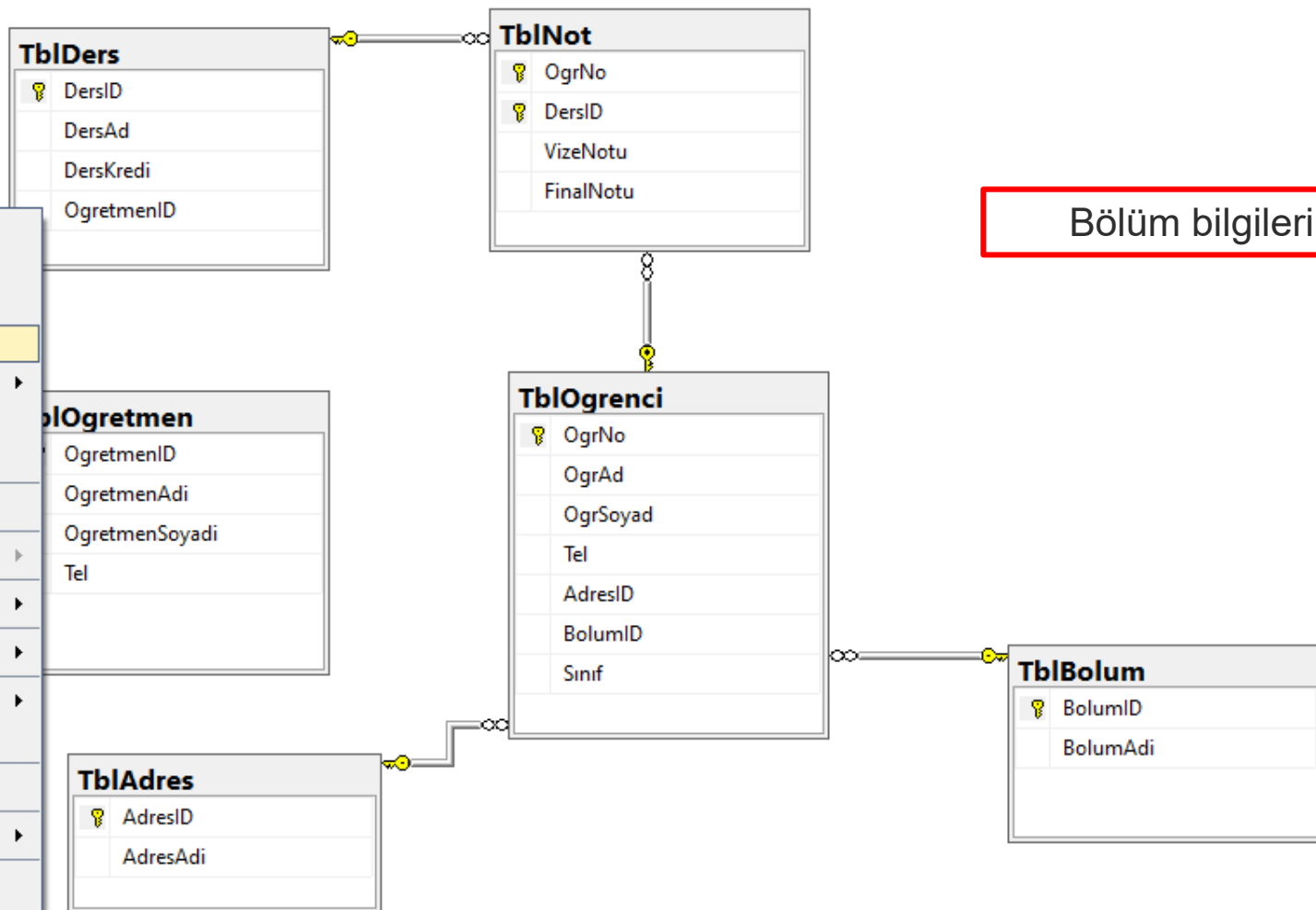
Reports

Rename

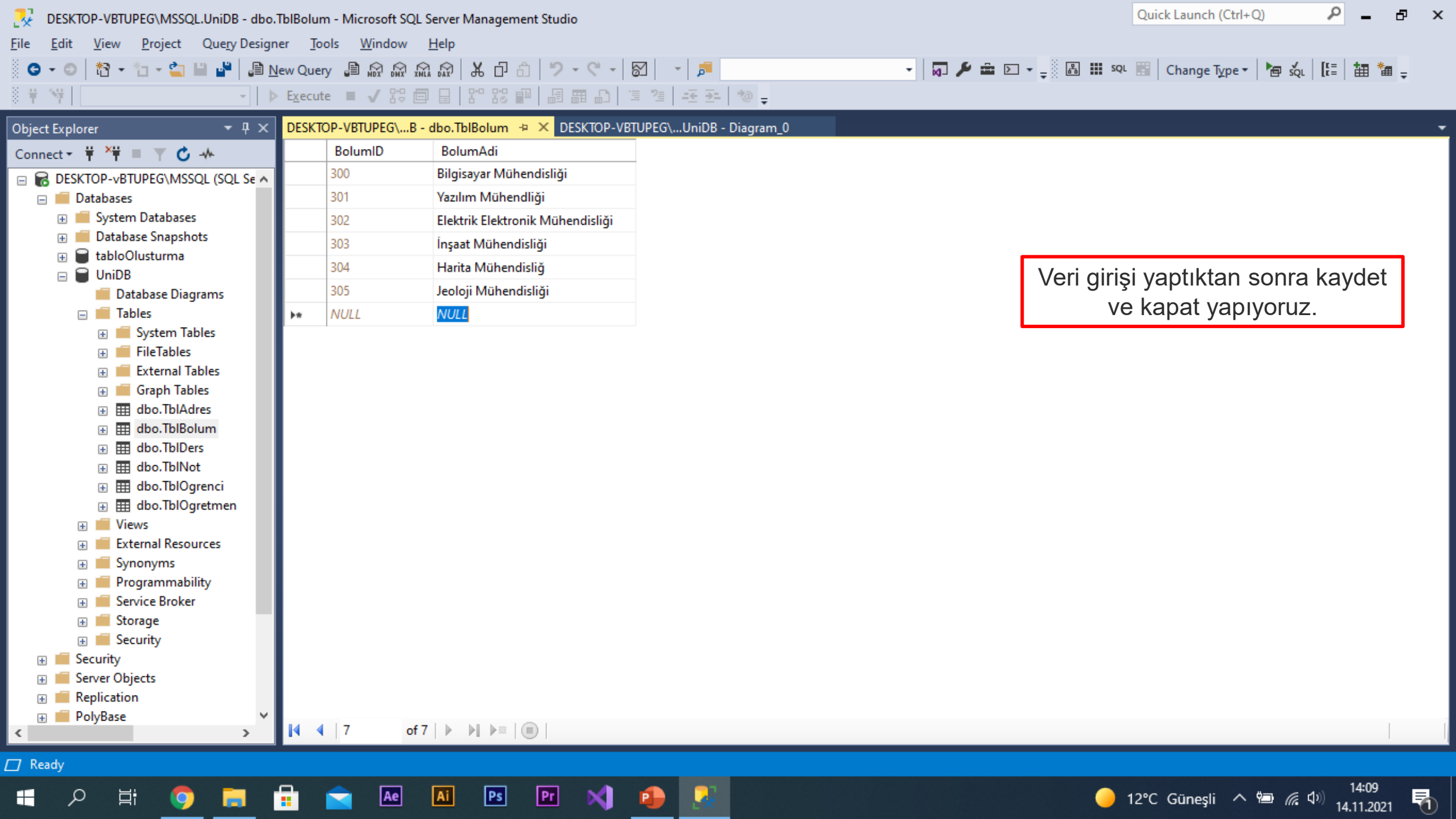
Delete

Refresh

Properties

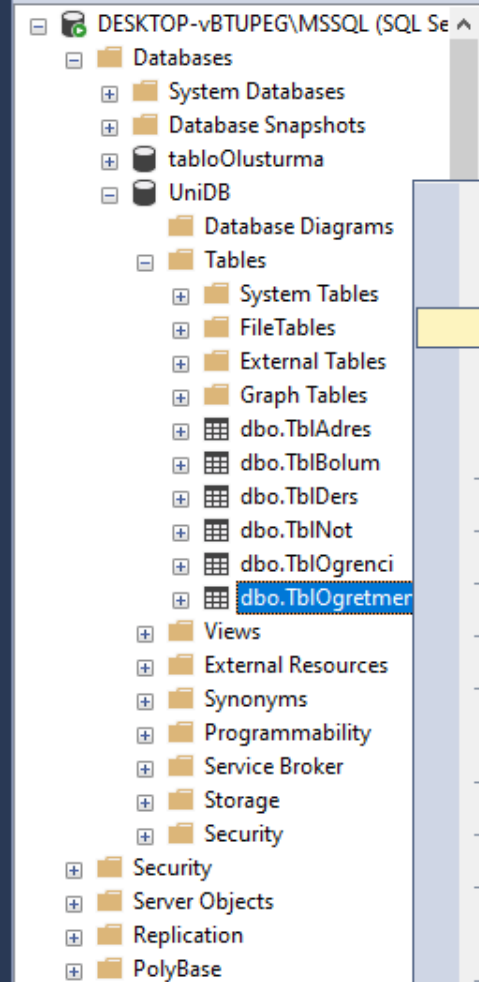


Bölüm bilgilerini giriyoruz.

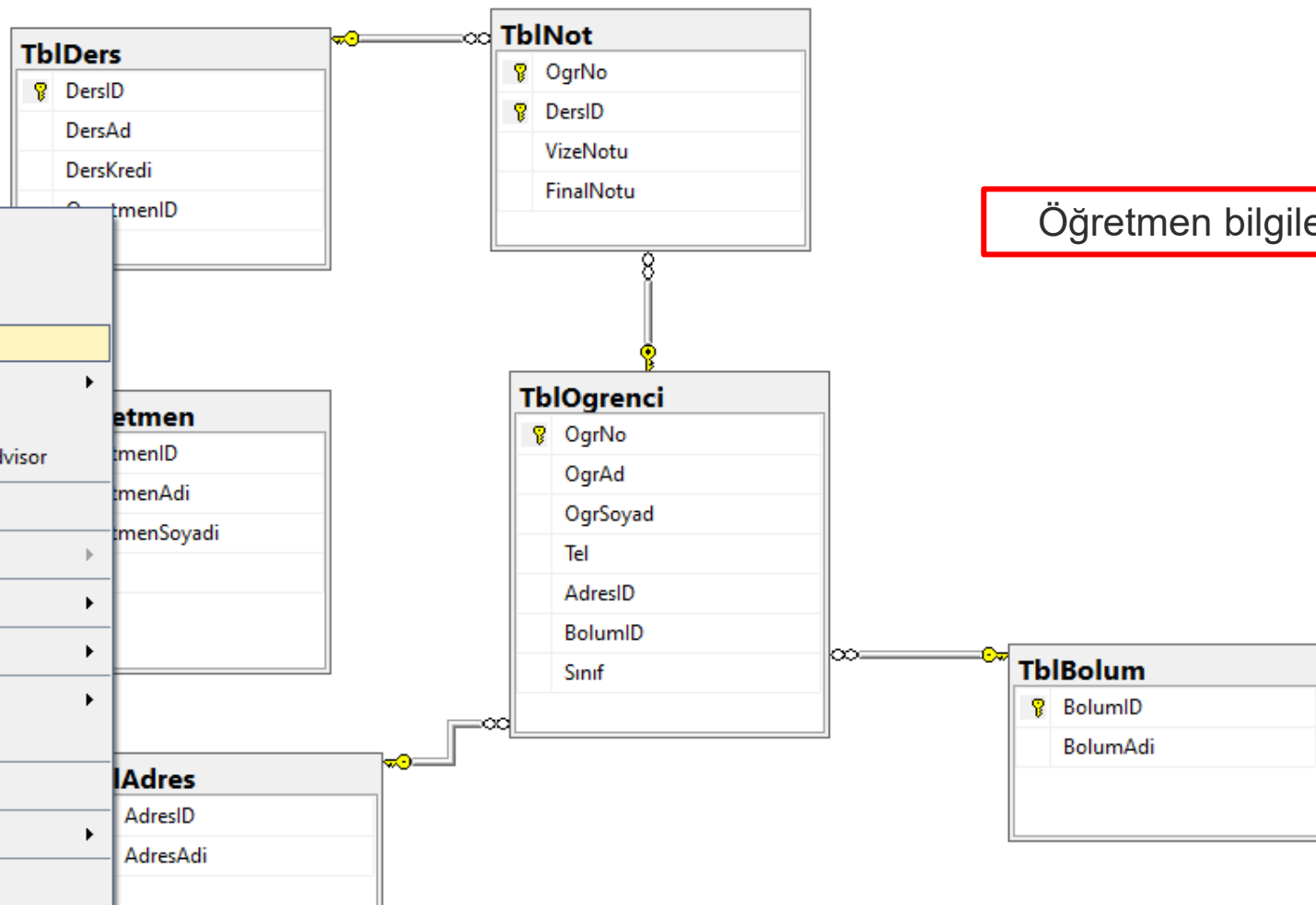


Veri girişi yaptıktan sonra kaydet ve kapat yapıyoruz.

BolumID	BolumAdi
300	Bilgisayar Mühendisliği
301	Yazılım Mühendliği
302	Elektrik Elektronik Mühendisliği
303	İNşaat Mühendisliği
304	Harita Mühendisliği
305	Jeoloji Mühendisliği
NULL	NULL



- New Table...
- Design
- Select Top 1000 Rows
- Edit Top 500 Rows
- Script Table as
- View Dependencies
- Memory Optimization Advisor
- Encrypt Columns...
- Full-Text index
- Storage
- Stretch
- Policies
- Facets
- Start PowerShell
- Reports
- Rename
- Delete
- Refresh
- Properties



Öğretmen bilgilerini giriyoruz.

Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Se)
- Databases
 - System Databases
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 - tabloOlusturma
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 - FileTables
 - External Tables
 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblNot
 - dbo.TblOgrenci
 - dbo.TblOgretmen
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase

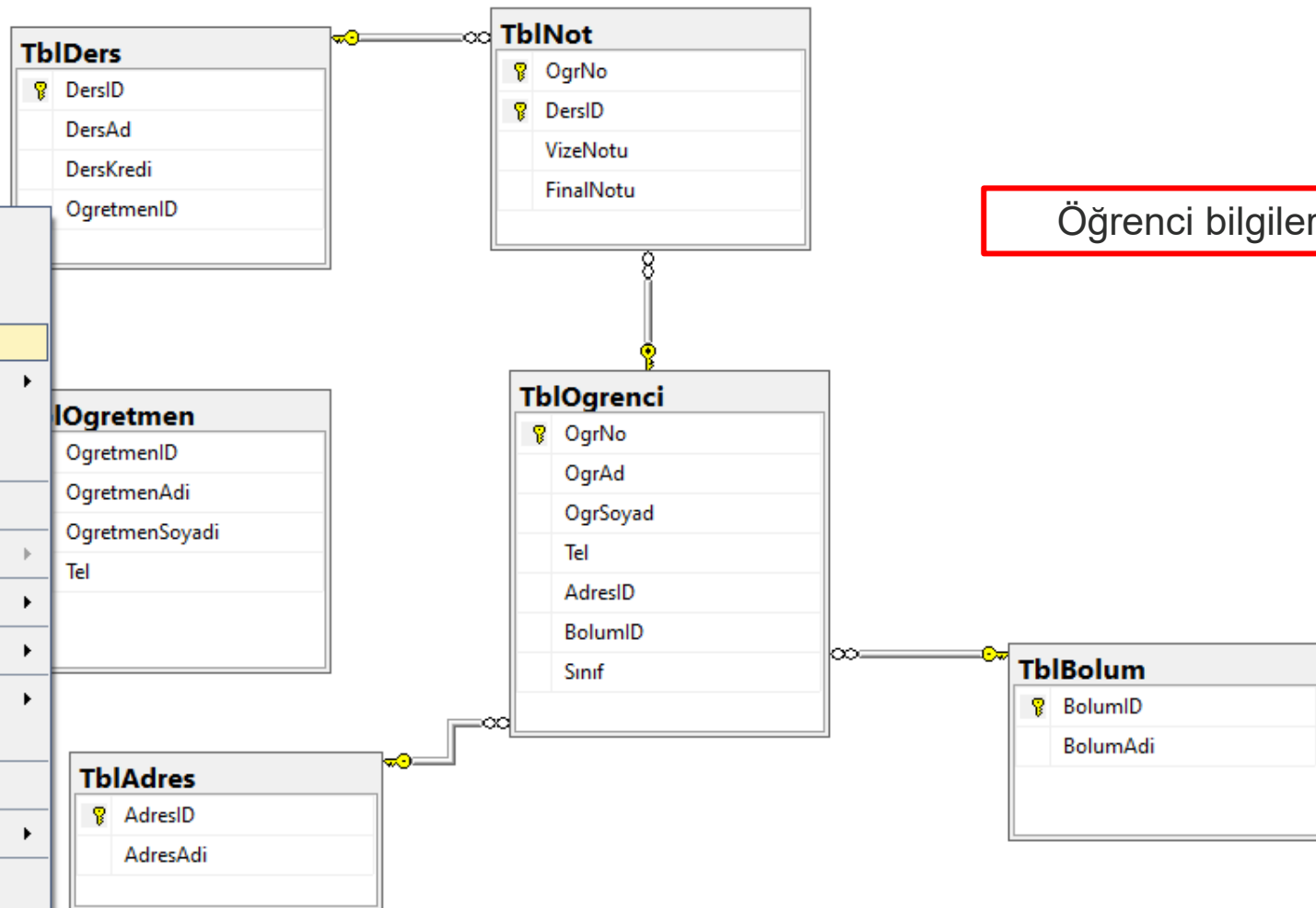
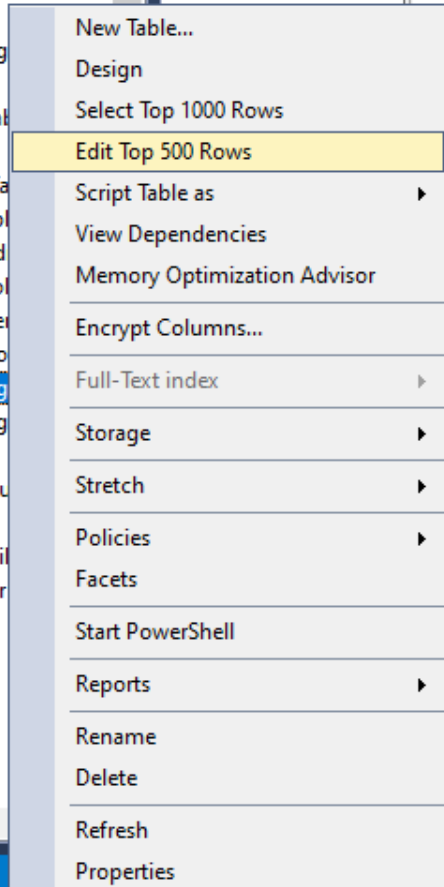
DESKTOP-VBTUPEG\...dbo.TblOgretmen

OgretmenID	OgretmenAdi	OgretmenSoy...	Tel
200	Ali	Çelik	5555555555
202	Okan	Kırhan	5555555556
203	Mesut	Ilgın	5555555557
204	Burak	Aydın	5555555558
205	Yeliz	Uludağ	5555555559
206	İsmail	Kılıç	5555555560
207	Taha	Ekici	5555555561
▶▶	NULL	NULL	NULL

8 of 8

DESKTOP-VBTUPEG\...UniDB - Diagram_0

Veri girişi yaptıktan sonra kaydet ve kapat yapıyoruz.



Öğrenci bilgilerini giriyoruz.

Object Explorer

Connect

- DESKTOP-vBTUPEG\MSSQL (SQL Se
- Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblNot
 - dbo.TblOgrenci
 - dbo.TblOgretmen
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 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase

DESKTOP-VBTUPEG\...- dbo.TblOgrenci

OqrNo	OqrAd	OqrSoyad	Tel	AdresiD	BolumID	Sınıf
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Tablolar arasında geçiş yapmak istemiyorsanız eğer açık sekmelerdeki TblBolum sekmesine sol tıklayarak aşağı doğru kaydırduğınızda açılan konumlardan herhangi birinin üzerine bırakarak tablonun istediğiniz konumda olmasını sağlayabilirsiniz.

DESKTOP-VBTUPEG...- dbo.TblBolum

BolumID	BolumAdi
300	Bilgisayar Müh...
301	Yazılım Mühen...
302	Elektrik Elektro...
303	İnşaat Mühendi...
304	Harita Mühendi...
305	Jeoloji Mühend...
NULL	NULL

Object Explorer

- Connect
- DESKTOP-vBTUPEG\MSSQL (SQL Se)
- Databases
 - System Databases
 - Database Snapshots
 - tabloOlusturma
 - UniDB
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 - dbo.TblDers
 - dbo.TblNot
 - dbo.TblOgrenci
 - dbo.TblOgretmen
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 - Security
 - Security
 - Server Objects
 - Replication
 - PolyBase

DESKTOP-VBTUPEG\...- dbo.TblOgrenci

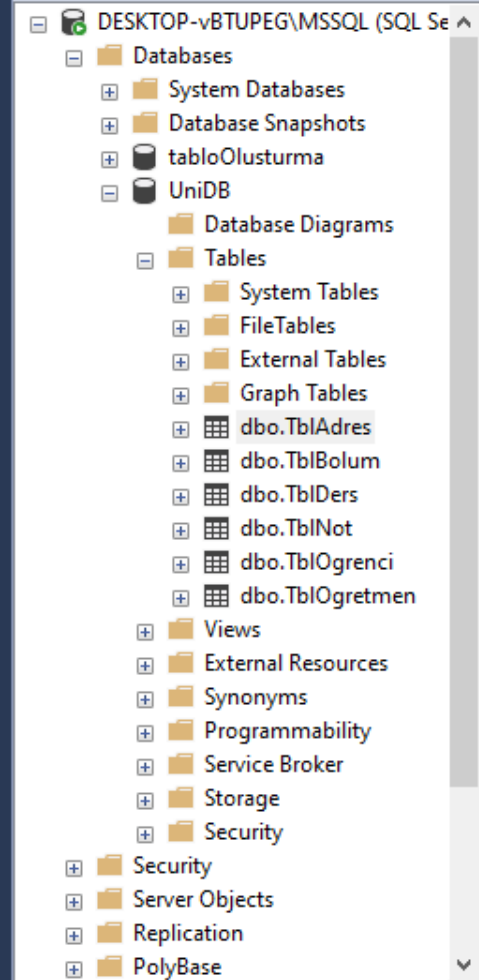
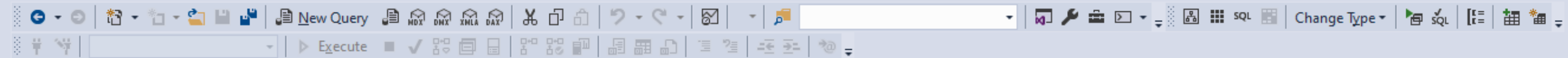
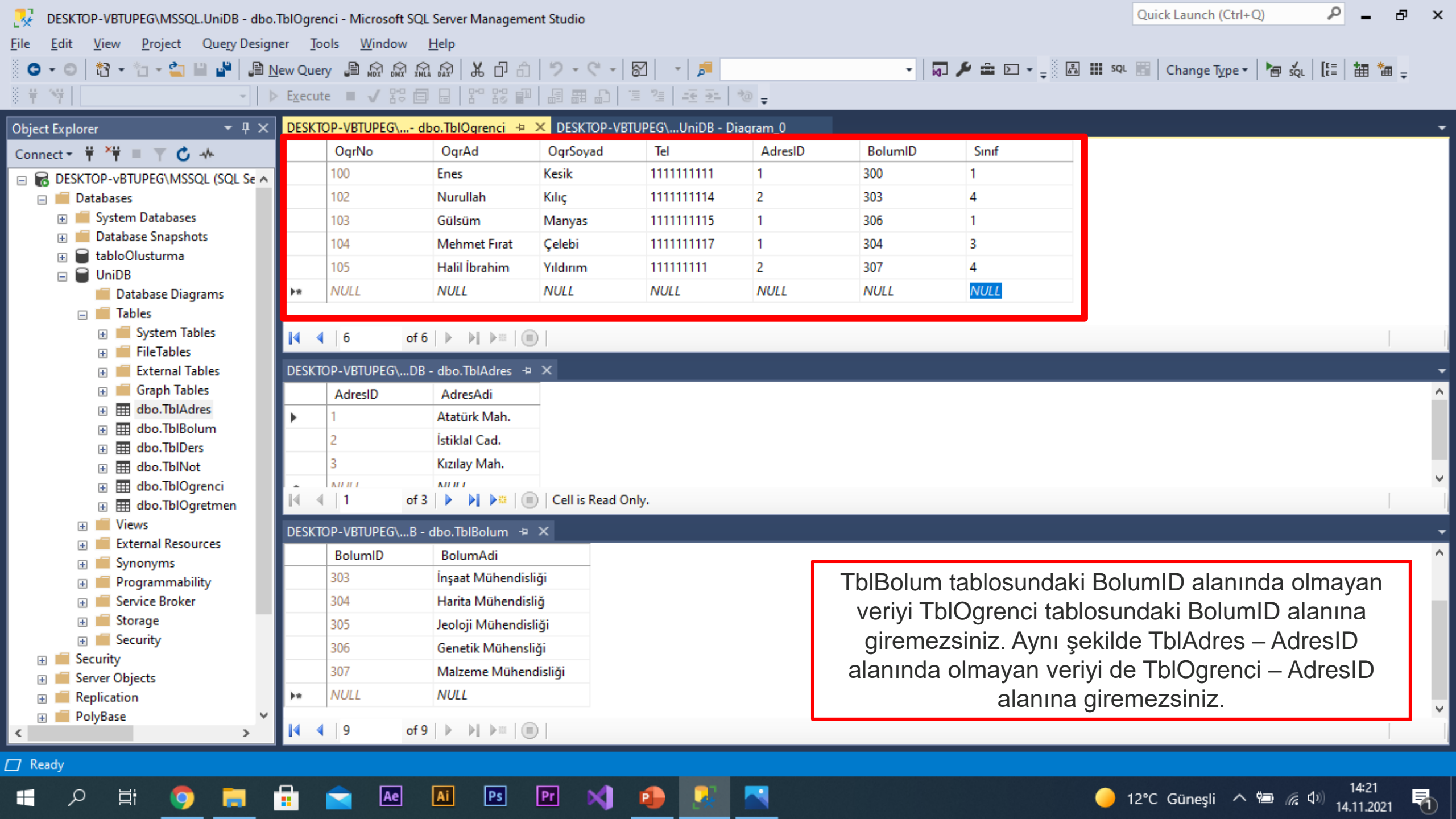
	OqrNo	OqrAd	OqrSoyad	Tel	AdresiID	BolumID	Sinif
▶	NULL	NULL	NULL	NULL	NULL	NULL	NULL

1 of 1

DESKTOP-VBTUPEG\...B - dbo.TblBolum

	BolumID	BolumAdi
▶	300	Bilgisayar Müh...
	301	Yazılım Mühen...
	302	Elektrik Elektro...
	303	İnşaat Mühendi...
	304	Harita Mühendi...
	305	Jeoloji Mühend...
*	NULL	NULL

1 of 6 | Cell is Read Only.

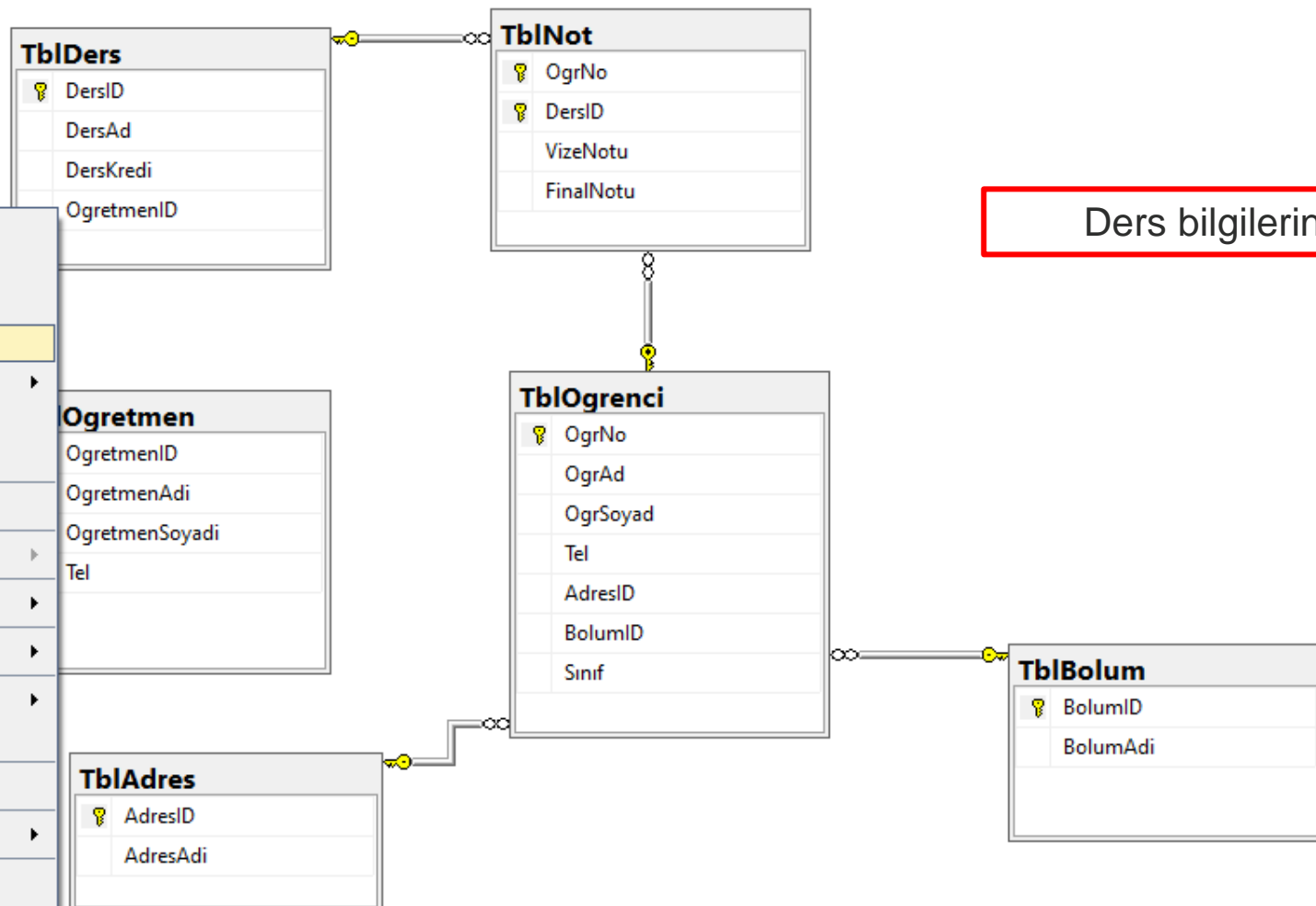
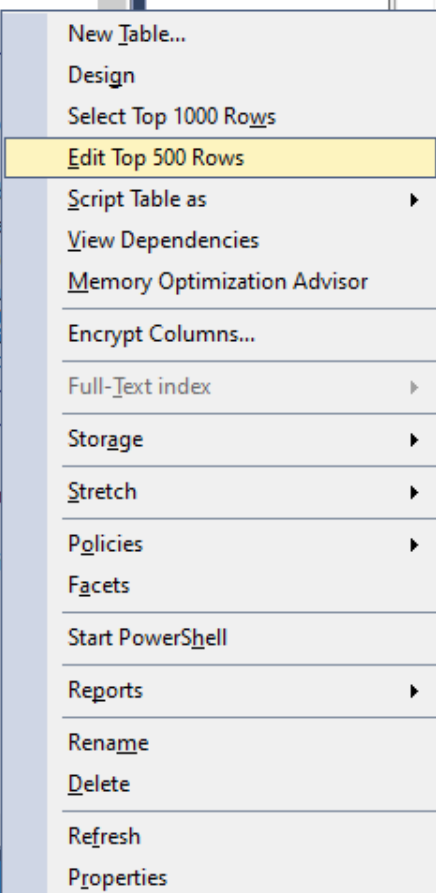
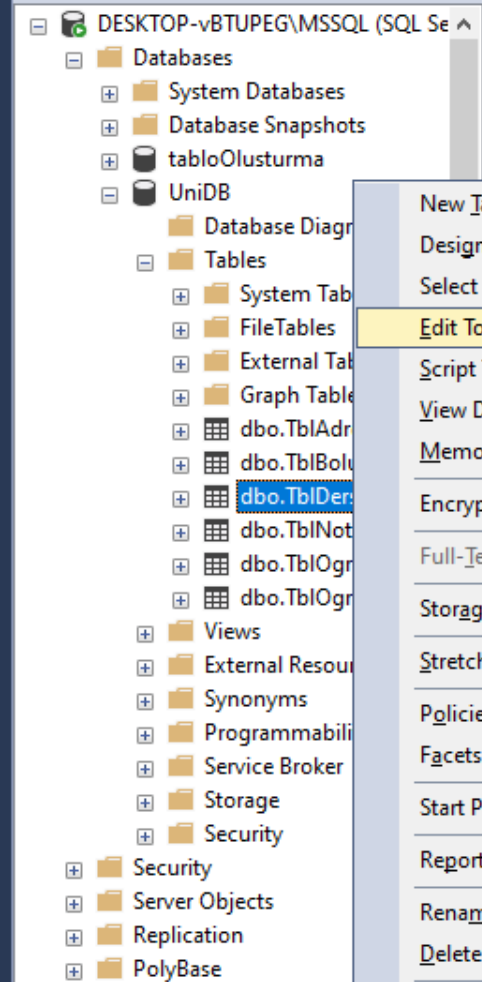


	OqrNo	OqrAd	OqrSoyad	Tel	AdresID	BolumID	Sınıf
	100	Enes	Kesik	1111111111	1	300	1
	102	Nurullah	Kılıç	1111111114	2	303	4
	103	Gülsüm	Manyas	1111111115	1	306	1
	104	Mehmet Fırat	Çelebi	1111111117	1	304	3
	105	Halil İbrahim	Yıldırım	1111111111	2	307	4
▶▶	NULL	NULL	NULL	NULL	NULL	NULL	NULL

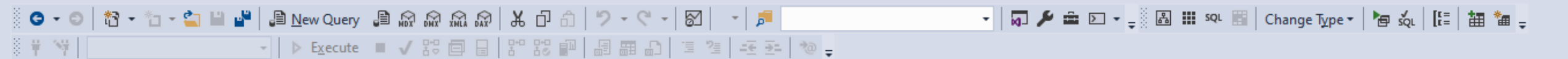
	AdresID	AdresAdi
▶	1	Atatürk Mah.
	2	İstiklal Cad.
	3	Kızılay Mah.
▶▶	NULL	NULL

	BolumID	BolumAdi
	303	İnşaat Mühendisliği
	304	Harita Mühendisliği
	305	Jeoloji Mühendisliği
	306	Genetik Mühendisliği
	307	Malzeme Mühendisliği
▶▶	NULL	NULL

TblBolum tablosundaki BolumID alanında olmayan veriyi TblOgrenci tablosundaki BolumID alanına giremezsiniz. Aynı şekilde TblAdres – AdresID alanında olmayan veriyi de TblOgrenci – AdresID alanına giremezsiniz.



Ders bilgilerini giriyoruz.



Object Explorer

Connect

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- Databases
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 - tabloOluşturma
 - UniDB
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 - Tables
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 - Graph Tables
 - dbo.TblAdres
 - dbo.TblBolum
 - dbo.TblDers
 - dbo.TblNot
 - dbo.TblOgrenci
 - dbo.TblOgretmen
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 - Security
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 - PolyBase

DESKTOP-VBTUPEG\...iDB - dbo.TblDers

DersID	DersAd	DersKredi	OgretmenID
100	Veri Tabanı	4	200
101	Algoritma	4	202
102	Mühendisliğe Giriş	2	203
103	Matematik I	2	204
104	Yapay Zeka	4	205
105	Fizik	2	206
»	NULL	NULL	NULL

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DESKTOP-VBTUPEG\...dbo.TblOgretmen

OgretmenID	OgretmenAdi	OgretmenSoy...	Tel	
▶	200	Ali	Çelik	555555555
	202	Okan	Kırhan	555555556
	203	Mesut	Ilgın	555555557
	204	Burak	Aydın	555555558
	205	Yeliz	Uludağ	555555559
	206	İsmail	Kılıç	555555560
	207	Taha	Ekici	555555561
*	NULL	NULL	NULL	NULL

1 of 7 Cell is Read Only.

Öğretmen Bilgilerini de kolaylıkla görmek için alt tarafta açabilirsiniz.



New Table...

Design

Select Top 1000 Rows

Edit Top 500 Rows

Script Table as

View Dependencies

Memory Optimization Advisor

Encrypt Columns...

Full-Text index

Storage

Stretch

Policies

Facets

Start PowerShell

Reports

Rename

Delete

Refresh

Properties

TblDers

DersID
DersAd
DersKredi
OgretmenID

TblNot

OgrNo
DersID
VizeNotu
FinalNotu

Ogretmen

OgretmenID
OgretmenAdi
OgretmenSoyadi
Tel

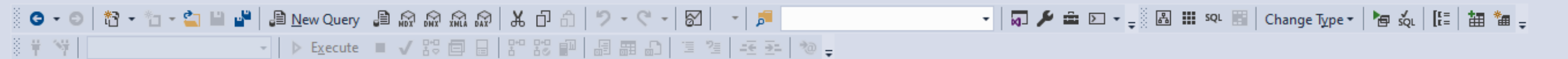
TblAdres

AdresID
AdresAdi

TblOgrenci

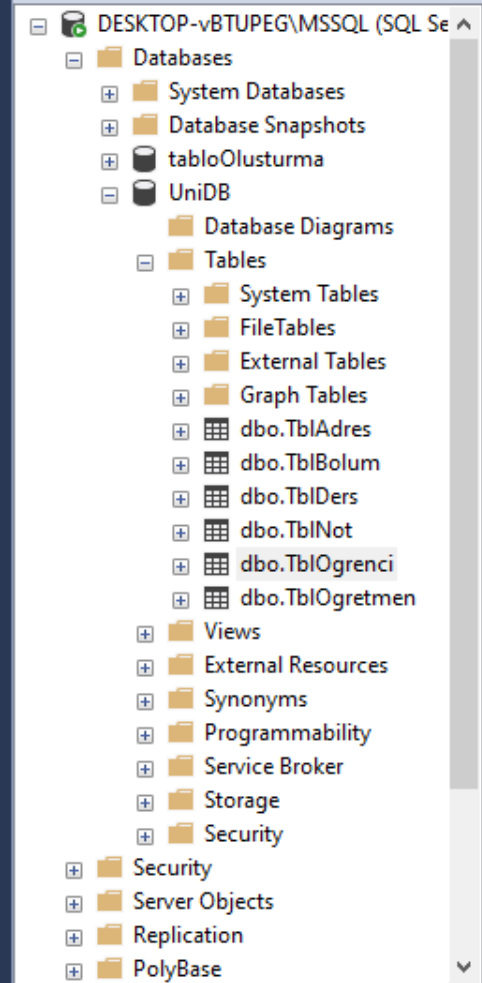
OgrNo
OgrAd
OgrSoyad
Tel
AdresID
BolumID
Sınıf

Not bilgilerini giriyoruz.



Object Explorer

Connect



DESKTOP-VBTUPEG\...niDB - dbo.TblNot

	OqrNo	DersID	VizeNotu	FinalNotu
	100	100	50	60
	100	101	60	70
	100	102	70	80
	102	103	80	90
	103	104	90	100
	103	103	100	90
	104	105	90	80
	105	101	80	70
	NULL	NULL	NULL	NULL

Öğrenci ve Ders Bilgilerini de kolaylıkla görmek için alt tarafta açabilirsiniz.

DESKTOP-VBTUPEG\...- dbo.TblOgrenci

	OqrNo	OqrAd	OqrSoyad	Tel	AdresID	BolumID	Sınıf
	100	Enes	Kesik	1111111111	1	300	1
	102	Nurullah	Kılıç	1111111114	2	303	4
	103	Gülsüm	Manyas	1111111115	1	306	1
	104	Mehmet Fırat	Çelebi	1111111117	1	304	3
	105	Halil İbrahim	Yıldırım	1111111111	2	307	4

1 of 5 Cell is Read Only.

DESKTOP-VBTUPEG\...iDB - dbo.TblDers

	DersID	DersAd	DersKredi	OgretmenID
	100	Veri Tabanı	4	200
	101	Algoritma	4	202
	102	Mühendisliğe G...	2	203

1 of 6 Cell is Read Only.