

1 System.DBNull Class

```
2 [ILAsm]
3 .class public serializable sealed beforefieldinit System.DBNull extends
4 System.Object implements System.Runtime.Serialization.ISerializable,
5 System.IConvertible
6
7 [C#]
8 public sealed class DBNull: IConvertible,
9 System.Runtime.Serialization.ISerializable
```

9 Assembly Info:

- 10 • *Name:* mscorlib
- 11 • *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00]
- 12 • *Version:* 4.0.0.0
- 13 • *Attributes:*
 - 14 ○ CLSCompliantAttribute(true)

15 Implements:

- 16 • **System.IConvertible**
- 17 • **System.Runtime.Serialization.ISerializable**

18 Summary

19 Represents a nonexistent value. This class cannot be inherited.

20 Inherits From: System.Object

21
22 **Library:** BCL

24 Description

25 The `System.DBNull` class represents a nonexistent value. In a database, for example, a
26 column in a row of a table might not contain any data whatsoever. That is, the column is
27 considered to not exist at all instead of merely not having a value. A `System.DBNull`
28 object represents the nonexistent column.

29
30 The `System.DBNull` type is a singleton class, which means only one `System.DBNull`
31 object exists. The `System.DBNull.Value` member represents the sole `System.DBNull`
32 object. `System.DBNull.Value` can be used to explicitly assign a nonexistent value to a
33 database field. You can determine whether a value retrieved from a database field is a
34 `System.DBNull` value by passing the value of that field to the `DBNull.Value.Equals`
35 method.

36
37 Do not confuse the notion of `null` in an object-oriented programming language with a
38 `System.DBNull` object. In an object-oriented programming language, `null` means the
39 absence of a reference to an object. `System.DBNull` represents an uninitialized variant
40 or nonexistent database column.

1 DBNull.Value Field

```
2 [ILAsm]  
3 .field public static initonly class System.DBNull Value  
4 [C#]  
5 public static readonly DBNull Value
```

6 Summary

7 Represents the sole instance of the `System.DBNull` class.

8 Description

9 `System.DBNull` is a singleton class, which means only this instance of this class can
10 exist.

11
12 If a database field has missing data, you can use the `System.DBNull.Value` property to
13 explicitly assign a `System.DBNull` object value to the field. However, most data
14 providers do this automatically.

15
16 To evaluate database fields to determine whether their values are `System.DBNull`, you
17 can pass the field value to the `DBNull.Value.Equals` method.

18

1
2 **DBNull.GetObjectData(System.Runtime.Serialization.SerializationInfo,**
3 **System.Runtime.Serialization.StreamingContext)** Method
4
5

```
6 [ILAsm]  
7 .method public hidebysig newslot virtual final instance void  
8 GetObjectData(class System.Runtime.Serialization.SerializationInfo info,  
9 valuetype System.Runtime.Serialization.StreamingContext context) cil  
10 managed  
  
11 [C#]  
12 public void GetObjectData (System.Runtime.Serialization.SerializationInfo  
13 info, System.Runtime.Serialization.StreamingContext context)
```

14 **Summary**

15 Implements the System.Runtime.Serialization.ISerializable interface and returns
16 the data needed to serialize the System.DBNull object.

17 **Parameters**

Parameter	Description
<i>info</i>	A System.Runtime.Serialization.SerializationInfo object containing information required to serialize the System.DBNull object.
<i>context</i>	A System.Runtime.Serialization.StreamingContext object containing the source and destination of the serialized stream associated with the System.DBNull object.

18
19 **Exceptions**

Exception	Condition
System.ArgumentNullException	<i>info</i> is null.

20
21

1 DBNull.GetTypeCode() Method

```
2 [ILAsm]  
3 .method public hidebysig newslot virtual final instance valuetype  
4 System.TypeCode GetTypeCode() cil managed  
  
5 [C#]  
6 public TypeCode GetTypeCode ()
```

7 Summary

8 Gets the System.TypeCode value for System.DBNull.

9 Return Value

10 The System.TypeCode value for System.DBNull, which is System.TypeCode.DBNull.

11

1
2 **DBNull.System.IConvertible.ToBoolean(System.IFormatProvider) Method**
3

```
4 [ILAsm]  
5 .method private hidebysig newslot virtual final instance bool  
6 System.IConvertible.ToBoolean(class System.IFormatProvider provider) cil  
7 managed  
  
8 [C#]  
9 bool IConvertible.ToBoolean (IFormatProvider provider)
```

10 **Summary**

11 This conversion is not supported. Attempting to make this conversion throws an
12 System.InvalidCastException.

13 **Parameters**

Parameter	Description
<i>provider</i>	An object that implements the System.IFormatProvider interface. (This parameter is not used; specify null.)

14
15 **Return Value**

16 None. The return value for this member is not used.

17 **Exceptions**

Exception	Condition
System.InvalidCastException	This conversion is not supported for the System.DBNull type.

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1
2 **DBNull.System.IConvertible.ToByte(System.I**
3 **FormatProvider) Method**

```
4 [ILAsm]  
5 .method private hidebysig newslot virtual final instance uint8  
6 System.IConvertible.ToByte(class System.IFormatProvider provider) cil  
7 managed  
8 [C#]  
9 byte IConvertible.ToByte (IFormatProvider provider)
```

10 **Summary**

11 This conversion is not supported. Attempting to make this conversion throws an
12 System.InvalidCastException.

13 **Parameters**

Parameter	Description
<i>provider</i>	An object that implements the System.IFormatProvider interface. (This parameter is not used; specify null.)

14
15 **Return Value**

16 None. The return value for this member is not used.

17 **Exceptions**

Exception	Condition
System.InvalidCastException	This conversion is not supported for the System.DBNull type.

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1
2 **DBNull.System.IConvertible.ToChar(System.I**
3 **FormatProvider) Method**

```
4 [ILAsm]  
5 .method private hidebysig newslot virtual final instance char  
6 System.IConvertible.ToChar(class System.IFormatProvider provider) cil  
7 managed  
8 [C#]  
9 char IConvertible.ToChar (IFormatProvider provider)
```

10 **Summary**

11 This conversion is not supported. Attempting to make this conversion throws an
12 System.InvalidCastException.

13 **Parameters**

Parameter	Description
<i>provider</i>	An object that implements the System.IFormatProvider interface. (This parameter is not used; specify null.)

14
15 **Return Value**

16 None. The return value for this member is not used.

17 **Exceptions**

Exception	Condition
System.InvalidCastException	This conversion is not supported for the System.DbNull type.

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DBNull.System.IConvertible.ToDateTime(System.IFormatProvider) Method

```
[ILAsm]  
.method private hidebysig newslot virtual final instance valuetype  
System.DateTime System.IConvertible.ToDateTime(class  
System.IFormatProvider provider) cil managed  
  
[C#]  
DateTime IConvertible.ToDateTime (IFormatProvider provider)
```

Summary

This conversion is not supported. Attempting to make this conversion throws an `System.InvalidCastException`.

Parameters

Parameter	Description
<i>provider</i>	An object that implements the <code>System.IFormatProvider</code> interface. (This parameter is not used; specify null.)

Return Value

None. The return value for this member is not used.

Exceptions

Exception	Condition
<code>System.InvalidCastException</code>	This conversion is not supported for the <code>System.DBNull</code> type.

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DBNull.System.IConvertible.ToDecimal(System.IFormatProvider) Method

```
[ILAsm]  
.method private hidebysig newslot virtual final instance valuetype  
System.Decimal System.IConvertible.ToDecimal(class System.IFormatProvider  
provider) cil managed  
  
[C#]  
decimal IConvertible.ToDecimal (IFormatProvider provider)
```

Summary

This conversion is not supported. Attempting to make this conversion throws an `System.InvalidCastException`.

Parameters

Parameter	Description
<i>provider</i>	An object that implements the <code>System.IFormatProvider</code> interface. (This parameter is not used; specify <code>null</code> .)

Return Value

None. The return value for this member is not used.

Exceptions

Exception	Condition
<code>System.InvalidCastException</code>	This conversion is not supported for the <code>System.DbNull</code> type.

1
2 **DBNull.System.IConvertible.ToDouble(System.IFormatProvider) Method**
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```
4 [ILAsm]  
5 .method private hidebysig newslot virtual final instance float64  
6 System.IConvertible.ToDouble(class System.IFormatProvider provider) cil  
7 managed  
8 [C#]  
9 double IConvertible.ToDouble (IFormatProvider provider)
```

10 **Summary**

11 This conversion is not supported. Attempting to make this conversion throws an
12 System.InvalidCastException.

13 **Parameters**

Parameter	Description
<i>provider</i>	An object that implements the System.IFormatProvider interface. (This parameter is not used; specify null.)

14
15 **Return Value**

16 None. The return value for this member is not used.

17 **Exceptions**

Exception	Condition
System.InvalidCastException	This conversion is not supported for the System.DBNull type.

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DBNull.System.IConvertible.ToInt16(System.IFormatProvider) Method

```
[ILAsm]  
.method private hidebysig newslot virtual final instance int16  
System.IConvertible.ToInt16(class System.IFormatProvider provider) cil  
managed  
  
[C#]  
short IConvertible.ToInt16 (IFormatProvider provider)
```

Summary

This conversion is not supported. Attempting to make this conversion throws an `System.InvalidCastException`.

Parameters

Parameter	Description
<i>provider</i>	An object that implements the <code>System.IFormatProvider</code> interface. (This parameter is not used; specify <code>null</code> .)

Return Value

None. The return value for this member is not used.

Exceptions

Exception	Condition
<code>System.InvalidCastException</code>	This conversion is not supported for the <code>System.DbNull</code> type.

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DBNull.System.IConvertible.ToInt32(System.IFormatProvider) Method

```
[ILAsm]  
.method private hidebysig newslot virtual final instance int32  
System.IConvertible.ToInt32(class System.IFormatProvider provider) cil  
managed  
  
[C#]  
int IConvertible.ToInt32 (IFormatProvider provider)
```

Summary

This conversion is not supported. Attempting to make this conversion throws an `System.InvalidCastException`.

Parameters

Parameter	Description
<i>provider</i>	An object that implements the <code>System.IFormatProvider</code> interface. (This parameter is not used; specify null.)

Return Value

None. The return value for this member is not used.

Exceptions

Exception	Condition
<code>System.InvalidCastException</code>	This conversion is not supported for the <code>System.DbNull</code> type.

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DBNull.System.IConvertible.ToInt64(System.IFormatProvider) Method

```
[ILAsm]  
.method private hidebysig newslot virtual final instance int64  
System.IConvertible.ToInt64(class System.IFormatProvider provider) cil  
managed  
  
[C#]  
long IConvertible.ToInt64 (IFormatProvider provider)
```

Summary

This conversion is not supported. Attempting to make this conversion throws an `System.InvalidCastException`.

Parameters

Parameter	Description
<i>provider</i>	An object that implements the <code>System.IFormatProvider</code> interface. (This parameter is not used; specify null.)

Return Value

None. The return value for this member is not used.

Exceptions

Exception	Condition
<code>System.InvalidCastException</code>	This conversion is not supported for the <code>System.DBNull</code> type.

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DBNull.System.IConvertible.ToSByte(System.IFormatProvider) Method

```
[ILAsm]  
.method private hidebysig newslot virtual final instance int8  
System.IConvertible.ToSByte(class System.IFormatProvider provider) cil  
managed  
  
[C#]  
sbyte IConvertible.ToSByte (IFormatProvider provider)
```

Summary

This conversion is not supported. Attempting to make this conversion throws an `System.InvalidCastException`.

Parameters

Parameter	Description
<i>provider</i>	An object that implements the <code>System.IFormatProvider</code> interface. (This parameter is not used; specify <code>null</code> .)

Return Value

None. The return value for this member is not used.

Exceptions

Exception	Condition
<code>System.InvalidCastException</code>	This conversion is not supported for the <code>System.DbNull</code> type.

1
2 **DBNull.System.IConvertible.ToSingle(System.**
3 **IFormatProvider) Method**

```
4 [ILAsm]  
5 .method private hidebysig newslot virtual final instance float32  
6 System.IConvertible.ToSingle(class System.IFormatProvider provider) cil  
7 managed  
8 [C#]  
9 float IConvertible.ToSingle (IFormatProvider provider)
```

10 **Summary**

11 This conversion is not supported. Attempting to make this conversion throws an
12 System.InvalidCastException.

13 **Parameters**

Parameter	Description
<i>provider</i>	An object that implements the System.IFormatProvider interface. (This parameter is not used; specify null.)

14
15 **Return Value**

16 None. The return value for this member is not used.

17 **Exceptions**

Exception	Condition
System.InvalidCastException	This conversion is not supported for the System.DbNull type.

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1
2 **DBNull.System.IConvertible.ToType(System.Type, System.IFormatProvider) Method**
3

```
4 [ILAsm]  
5 .method private hidebysig newslot virtual final instance object  
6 System.IConvertible.ToType(class System.Type 'type',class  
7 System.IFormatProvider provider) cil managed  
  
8 [C#]  
9 object IConvertible.ToType (Type type, IFormatProvider provider)
```

10 **Summary**

11 Converts the current `System.DBNull` object to the specified type.

12 **Parameters**

Parameter	Description
<i>type</i>	The type to convert the current <code>System.DBNull</code> object to.
<i>provider</i>	An object that implements the <code>System.IFormatProvider</code> interface and is used to augment the conversion. If <code>null</code> is specified, format information is obtained from the current culture.

13
14 **Return Value**

15 The boxed equivalent of the current `System.DBNull` object, if that conversion is
16 supported; otherwise, an exception is thrown and no value is returned.

17 **Description**

18 Three conversions are supported: If the *type* parameter specifies `System.Object` or
19 `System.DBNull`, the return value is the current `System.DBNull` object itself. If the *type*
20 parameter specifies `System.String`, the return value is the string returned by the
21 `System.DBNull.ToString` method.

22 **Exceptions**

Exception	Condition
System.InvalidCastException	This conversion is not supported for the <code>System.DBNull</code> type.

System.ArgumentNullException	<i>type</i> is null.
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1
2 **DBNull.System.IConvertible.ToUInt16(System.IFormatProvider) Method**
3

```
4 [ILAsm]  
5 .method private hidebysig newslot virtual final instance uint16  
6 System.IConvertible.ToUInt16(class System.IFormatProvider provider) cil  
7 managed  
8 [C#]  
9 ushort IConvertible.ToUInt16 (IFormatProvider provider)
```

10 **Summary**

11 This conversion is not supported. Attempting to make this conversion throws an
12 System.InvalidCastException.

13 **Parameters**

Parameter	Description
<i>provider</i>	An object that implements the System.IFormatProvider interface. (This parameter is not used; specify null.)

14
15 **Return Value**

16 None. The return value for this member is not used.

17 **Exceptions**

Exception	Condition
System.InvalidCastException	This conversion is not supported for the System.DBNull type.

18
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1
2 **DBNull.System.IConvertible.ToUInt32(System.IFormatProvider) Method**
3

```
4 [ILAsm]  
5 .method private hidebysig newslot virtual final instance uint32  
6 System.IConvertible.ToUInt32(class System.IFormatProvider provider) cil  
7 managed  
8 [C#]  
9 uint IConvertible.ToUInt32 (IFormatProvider provider)
```

10 **Summary**

11 This conversion is not supported. Attempting to make this conversion throws an
12 System.InvalidCastException.

13 **Parameters**

Parameter	Description
<i>provider</i>	An object that implements the System.IFormatProvider interface. (This parameter is not used; specify null.)

14
15 **Return Value**

16 None. The return value for this member is not used.

17 **Exceptions**

Exception	Condition
System.InvalidCastException	This conversion is not supported for the System.DBNull type.

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DBNull.System.IConvertible.ToUInt64(System.IFormatProvider) Method

```
[ILAsm]  
.method private hidebysig newslot virtual final instance uint64  
System.IConvertible.ToUInt64(class System.IFormatProvider provider) cil  
managed  
  
[C#]  
ulong IConvertible.ToUInt64 (IFormatProvider provider)
```

Summary

This conversion is not supported. Attempting to make this conversion throws an `System.InvalidCastException`.

Parameters

Parameter	Description
<i>provider</i>	An object that implements the <code>System.IFormatProvider</code> interface. (This parameter is not used; specify <code>null</code> .)

Return Value

None. The return value for this member is not used.

Exceptions

Exception	Condition
<code>System.InvalidCastException</code>	This conversion is not supported for the <code>System.DbNull</code> type.

1 DBNull.ToString() Method

```
2 [ILAsm]  
3 .method public hidebysig virtual instance string ToString() cil managed  
4 [C#]  
5 public override string ToString ()
```

6 Summary

7 Returns an empty string (System.String.Empty).

8 Return Value

9 An empty string (System.String.Empty).

10

1 DBNull.ToString(System.IFormatProvider)

2 Method

```
3 [ILAsm]  
4 .method public hidebysig newslot virtual final instance string  
5 ToString(class System.IFormatProvider provider) cil managed  
  
6 [C#]  
7 public string ToString (IFormatProvider provider)
```

8 Summary

9 Returns an empty string using the specified `System.IFormatProvider`.

10 Parameters

Parameter	Description
<i>provider</i>	The <code>System.IFormatProvider</code> to be used to format the return value.-or- null to obtain the format information from the current locale setting of the operating system.

11 Return Value

13 An empty string (`System.String.Empty`).

14