

New in Entity Framework 8: Primitive collection properties

C# Person.cs

```
public class Person
{
    public Guid Id { get; init; }
    public required int[] LuckyNumbers { get; init; }
}
```

**Collection is
defined as JSON
(nvarchar(max))**



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CreatePerson.sql

```
CREATE TABLE [dbo].[Persons](
    [Id] [uniqueidentifier] NOT NULL,
    [LuckyNumbers] [nvarchar](max) NOT NULL,
    CONSTRAINT [PK_Persons] PRIMARY KEY CLUSTERED ([Id] ASC)
)
```



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C# AddPerson.cs

```
var person = new Person
{
    Id = Guid.NewGuid(),
    LuckyNumbers = [1, 3, 5, 7]
};
```

```
dbContext.Add(person);
dbContext.SaveChanges();
```

Stored as JSON

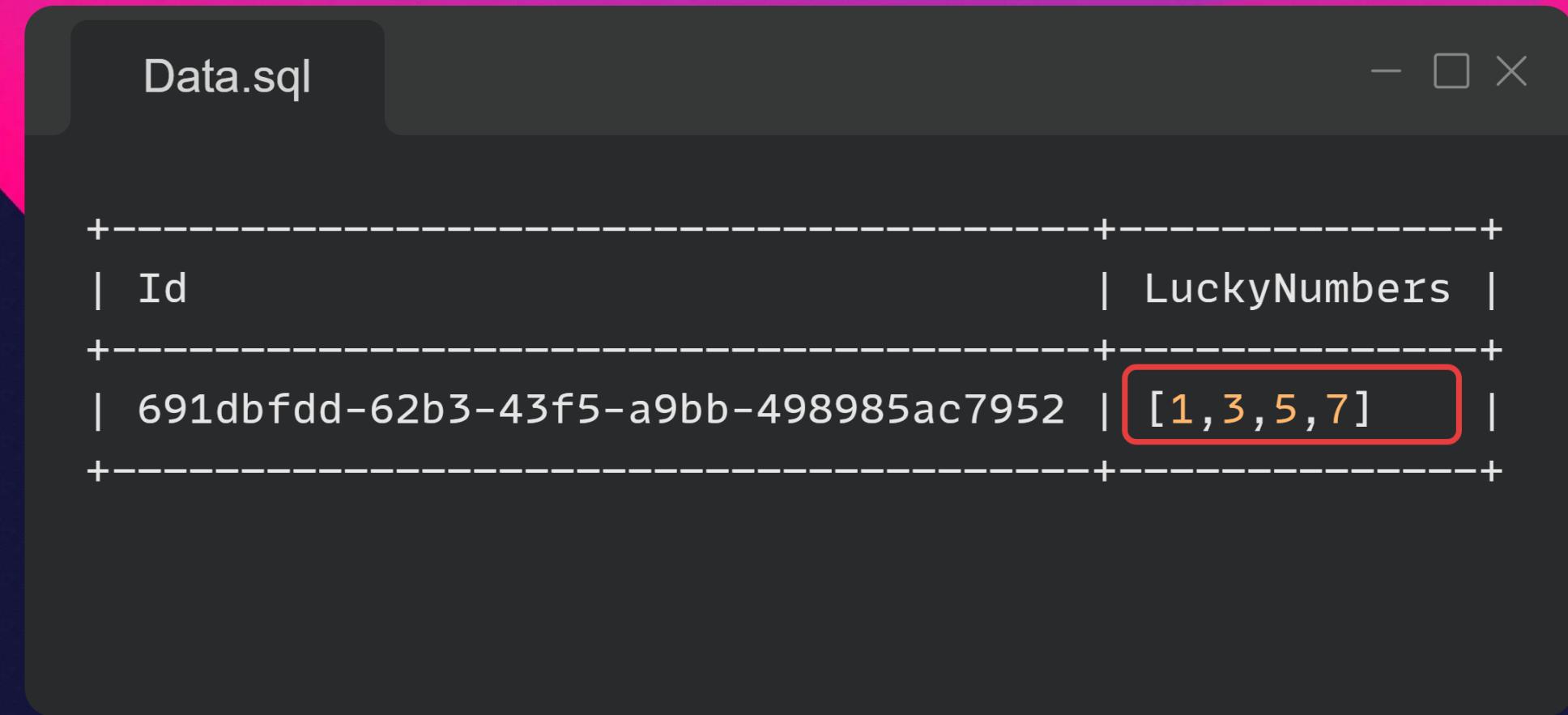
InsertPerson.sql

```
exec sp_executesql N'SET IMPLICIT_TRANSACTIONS OFF;
SET NOCOUNT ON;
INSERT INTO [dbo].[Persons] ([Id], [LuckyNumbers])
VALUES (@p0, @p1);
',N'@p0 uniqueidentifier,@p1 nvarchar(4000)',
@p0='691dbfdd-62b3-43f5-a9bb-498985ac7952',
@p1=N'[1,3,5,7]'
```



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```
 Data.sql - X
+-----+-----+
| Id      | LuckyNumbers |
+-----+-----+
| 691dbfdd-62b3-43f5-a9bb-498985ac7952 | [1,3,5,7]   |
+-----+-----+
```

The screenshot shows a terminal window titled "Data.sql". Inside the window, there is a table with two columns: "Id" and "LuckyNumbers". The "Id" column contains the value "691dbfdd-62b3-43f5-a9bb-498985ac7952". The "LuckyNumbers" column contains the value "[1,3,5,7]", which is highlighted with a red rectangular border.



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C# QueryPerson.cs

```
var persons = dbContext.Set<Person>()
    .Where(p => p.LuckyNumbers.Contains(3))
    .ToList();
```

Queried
using OPENJSON



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SelectPerson.sql

```
SELECT [p].[Id], [p].[LuckyNumbers]
FROM [dbo].[Persons] AS [p]
WHERE 3 IN (
    SELECT [l].[value]
    FROM OPENJSON([p].[LuckyNumbers])
    WITH ([value] int '$') AS [l]
)
```

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