

EFCORE 7:

JSON COLUMNS

JSON columns are a type of database column that can store JSON (JavaScript Object Notation) data.

JSON is a lightweight data-interchange format that is easy for humans to read and write and for machines to parse and generate.



LET CONSIDER THIS MODEL

```
public class Customer
{
    public int Id { get; set; }
    public string? Name { get; set; }
    public ContactDetails? Contact { get; set; }
}

public class ContactDetails
{
    public Address Address { get; set; } = null!;
    public string? Phone { get; set; }
}

public class Address
{
    public string? Street { get; set; }
    public string City { get; set; }
    public string? Postcode { get; set; }
    public string Country { get; set; }
}
```

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MAPPING TO JSON COLUMNS

ToJson method in configuring the aggregate type

The aggregate type is configured in OnModelCreating using OwnsOne

```
protected override void OnModelCreating(ModelBuilder modelBuilder)
{
    modelBuilder.Entity<Customer>().OwnsOne(
        customer => customer.Contact, ownedNavigationBuilder =>
        {
            ownedNavigationBuilder.ToJson();
            ownedNavigationBuilder.OwnsOne(contactDetails => contactDetails.Address);
        });
}
```



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The aggregate type is configured in **OnModelCreating** using **OwnsOne**

```
protected override void OnModelCreating(ModelBuilder modelBuilder)
{
    modelBuilder.Entity<Customer>().OwnsOne(
        customer => customer.Contact, ownedNavigationBuilder =>
        {
            ownedNavigationBuilder.ToJson();
            ownedNavigationBuilder.OwnsOne(contactDetails => contactDetails.Address);
        });
}
```



VIEW OF JSON COLUMNS

The **Customers** table will now contain a **JSON column** for **ContactDetails** populated with a JSON document for each **Customers**:

```
{
  "Phone": "+15148720311",
  "Address": {
    "City": "Montreal",
    "Country": "Canada",
    "Postcode": "QC H2Y 1C6",
    "Street": "275 Rue Notre Dame E"
  }
}
```



THANKS FOR READY
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