

## Examen Recuperación de Servidor

Controlador con las queries:

```
[HttpGet("3")]
0 references
public async Task<ActionResult> Query3()
{
    // LA QUERY
    var list2 = await db.Concesionario
        .SelectMany(s => s.Smarka, (c, s) => new
        {
            Concesionario = c.ConcesionarioId,
            Marca = c.Marca,
            Total = s.Cantidad * s.Modelo.Importe
        })
        .GroupBy(c1 => new { c1.Concesionario, c1.Marca})
        .Select(g => new {
            Concesionario = g.Key.Concesionario,
            TotalConcesionario = g.Sum(c1 => c1.Total)
        })
        .ToListAsync();

    return Ok(new
    {
        ValorActual = 3,
        Descripcion = "Ejemplo en MODO NO ASYNC - DEBE SER ASÍNCRONOS",
        Valores = list2,
    });
}
```

```
[HttpGet("4")]
0 references
public async Task<ActionResult> Query4()
{
    var list2 = await db.Concesionario
        .SelectMany(s => s.Smarka, (c, s) => new
        {
            Concesionario = c.ConcesionarioId,
            Marca = c.Marca,
            Total = s.Cantidad * s.Modelo.Importe
        })
        .GroupBy(c1 => new { c1.Concesionario, c1.Marca})
        .Select(g => new {
            Concesionario = g.Key.Concesionario,
            Marca = g.Key.Marca,
            TotalConcesionario = g.Sum(c1 => c1.Total)
        })
        .ToListAsync();

    // LA QUERY
    var list = list2
        .GroupBy(g => g.Marca)
        .Select(a => new{
            Marca = a.Key,
            TotalImporte = a.Sum(c1 => c1.TotalConcesionario),
            Concesionarios = a.Count()
        })
        .ToList();

    return Ok(new
    {
        ValorActual = 4,
        Descripcion = "Ejemplo en MODO NO ASYNC - DEBE SER ASÍNCRONOS",
        Valores = list,
    });
}
```

## Los Datos de la Tabla

```
static void InsertarDatos()
{
    using (var db = new ConcesionarioContext())
    {
        db.Concesionario.RemoveRange(db.Concesionario);
        db.Modelo.RemoveRange(db.Modelo);
        db.Stock.RemoveRange(db.Stock);
        db.SaveChanges();

        db.Concesionario.AddRange(
            new Concesionario {ConcesionarioId = 1, Marca = "Audi"},
            new Concesionario {ConcesionarioId = 2, Marca = "Audi"},
            new Concesionario {ConcesionarioId = 3, Marca = "Seat"},
            new Concesionario {ConcesionarioId = 4, Marca = "Kia"},
            new Concesionario {ConcesionarioId = 5, Marca = "Toyota"},
            new Concesionario {ConcesionarioId = 6, Marca = "Toyota"}
        );
        db.SaveChanges();

        db.Modelo.AddRange(
            new Modelo {ModeloId = "A8", Importe = 15000},
            new Modelo {ModeloId = "A7", Importe = 12000},
            new Modelo {ModeloId = "A5", Importe = 10000},
            new Modelo {ModeloId = "Sportage", Importe = 11000},
            new Modelo {ModeloId = "Sorento", Importe = 9000},
            new Modelo {ModeloId = "Panda", Importe = 8000},
            new Modelo {ModeloId = "Leon", Importe = 10000},
            new Modelo {ModeloId = "Corolla", Importe = 16000},
            new Modelo {ModeloId = "Yaris", Importe = 15000}
        );
        db.SaveChanges();

        db.Stock.AddRange(
            new Stock {ConcesionarioId = 1, ModeloId = "A8", Cantidad = 3},
            new Stock {ConcesionarioId = 1, ModeloId = "A7", Cantidad = 2},
            new Stock {ConcesionarioId = 1, ModeloId = "A5", Cantidad = 2},
            new Stock {ConcesionarioId = 2, ModeloId = "A8", Cantidad = 2},
            new Stock {ConcesionarioId = 2, ModeloId = "A7", Cantidad = 3},
            new Stock {ConcesionarioId = 2, ModeloId = "A5", Cantidad = 1},
            new Stock {ConcesionarioId = 3, ModeloId = "Panda", Cantidad = 2},
            new Stock {ConcesionarioId = 3, ModeloId = "Leon", Cantidad = 4},
            new Stock {ConcesionarioId = 4, ModeloId = "Sportage", Cantidad = 2},
            new Stock {ConcesionarioId = 4, ModeloId = "Sorento", Cantidad = 1},
            new Stock {ConcesionarioId = 5, ModeloId = "Corolla", Cantidad = 2},
            new Stock {ConcesionarioId = 5, ModeloId = "Yaris", Cantidad = 1},
            new Stock {ConcesionarioId = 6, ModeloId = "Corolla", Cantidad = 3},
            new Stock {ConcesionarioId = 6, ModeloId = "Yaris", Cantidad = 2}
        );
        db.SaveChanges();
    }
}
```

## El modelo

```
using System;
using System.Linq;
using System.Collections.Generic;
using Microsoft.EntityFrameworkCore;
using System.ComponentModel.DataAnnotations;
using System.ComponentModel.DataAnnotations.Schema;

namespace RecuConcesionario.Models
{
    10 references
    public class Concesionario{
        [Key, DatabaseGenerated(DatabaseGeneratedOption.None)]
        9 references
        public int ConcesionarioId {get; set;}
        8 references
        public string Marca {get; set;}
        2 references
        public List<Stock> Smarka {get; } = new List<Stock>();
    }

    11 references
    public class Modelo{
        [Key]
        9 references
        public string ModeloId {get; set;}
        11 references
        public int Importe {get; set;}
        0 references
        public List<Stock> Mmarka {get; } = new List<Stock>();
    }

    19 references
    public class Stock{
        [Key]
        0 references
        public int id {get; set;}
        14 references
        public int ConcesionarioId {get; set;}
        14 references
        public string ModeloId {get; set;}
        0 references
        public Concesionario Concesionario {get; set;}
        2 references
        public Modelo Modelo {get; set;}
        16 references
        public int Cantidad{get; set;}
    }
}
```

## En el Swagger

Response body

```
{
  "valorActual": 3,
  "descripcion": "Ejemplo en MODO NO ASYNC - DEBE SER ASÍNCRONOS",
  "valores": [
    {
      "concesionario": 1,
      "totalConcesionario": 89000
    },
    {
      "concesionario": 2,
      "totalConcesionario": 76000
    },
    {
      "concesionario": 3,
      "totalConcesionario": 56000
    },
    {
      "concesionario": 4,
      "totalConcesionario": 31000
    },
    {
      "concesionario": 5,
      "totalConcesionario": 47000
    },
    {
      "concesionario": 6,
      "totalConcesionario": 78000
    }
  ]
}
```

Response headers

Download

Response body

```
{
  "valorActual": 4,
  "descripcion": "Ejemplo en MODO NO ASYNC - DEBE SER ASÍNCRONOS",
  "valores": [
    {
      "marca": "Audi",
      "totalImporte": 165000,
      "concesionarios": 2
    },
    {
      "marca": "Seat",
      "totalImporte": 56000,
      "concesionarios": 1
    },
    {
      "marca": "Kia",
      "totalImporte": 31000,
      "concesionarios": 1
    },
    {
      "marca": "Toyota",
      "totalImporte": 125000,
      "concesionarios": 2
    }
  ]
}
```

Download