How to remove the square brackets in child rows of a json from SQL Server 2016?

Asked 9 months ago   Active 8 months ago   Viewed 415 times

I have a problem with the ouput for a query like this:

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```
SELECT
    Users.Id,
    Users.FbId,
    Users.Email,
    Users.Nombre,
    (SELECT * FROM AccessLevel WHERE AccessLevel.Id = Users.NivelAcceso FOR JSON PATH)
AS NivelAcceso,
    (SELECT * FROM UserStatus WHERE UserStatus.Id = Users.Estatus FOR JSON PATH) AS
Estatus
FROM
    Users
WHERE
    Users.Id = 1
FOR JSON AUTO, WITHOUT_ARRAY_WRAPPER;
```

The resulting of that is like this:

```
{
  "Id": 1,
  "Email": "some@email.com",
  "NivelAcceso": [
    {
      "Id": 1,
      "Clave": "Usuario"
    }
  ],
  "Estatus": [
    {
      "Id": 1,
      "Estatus": "Activo"
    }
```

The problem is when i deserialize that in C# with Newtonsoft, the square brackets in "NivelAcceso" and "Estatus" can't be parse because Newtonsoft thinks is an Array.

My C# classes are this:

```csharp
public class AccessLevel
{
    [JsonProperty(PropertyName = "Id")]
    public int Id { get; set; }
    [JsonProperty(PropertyName = "Clave")]
    public string Clave { get; set; }
    [JsonProperty(PropertyName = "Descripcion")]
    public string Descripcion { get; set; }
}

public class UserStatus
{
    [JsonProperty(PropertyName = "Id")]
    public int Id { get; set; }
    [JsonProperty(PropertyName = "Estatus")]
    public string Estatus { get; set; }
    [JsonProperty(PropertyName = "Descripcion")]
    public string Descripcion { get; set; }
}

public class Users
{
    public long Id { get; set; }
    public string Email { get; set; }
    [JsonProperty(PropertyName = "NivelAcceso")]
    public AccessLevel NivelAcceso { get; set; }
    [JsonProperty(PropertyName = "Estatus")]
    public UserStatus Estatus { get; set; }
}
```

Actually I'm using something like this:

```csharp
Users data = JsonConvert.DeserializeObject<Users>(_dataReader[0].ToString().Replace('[',
'\0').Replace(']', '\0'));
```

Anybody can help me how to deserialize that?

edited Dec 28 '18 at 5:03   asked Nov 30 '18 at 18:34

Victor
52   8

@dbc Done!, thanks! – Victor   Dec 3 '18 at 15:25

1 Answer

In your sub query you also need to specify **WITHOUT_ARRAY_WRAPPER** modifier

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```
SELECT
    Users.Id,
    ...
    (SELECT * FROM AccessLevel WHERE AccessLevel.Id = Users.NivelAcceso FOR JSON PATH,
WITHOUT_ARRAY_WRAPPER) AS NivelAcceso,
```

But when you do this, the outer JSON will treat your "NivelAcceso" field as a plain string instead of a json object. To solve this use
JSON_QUERY function

```
SELECT
        Users.Id,
        ...
        JSON_QUERY((SELECT * FROM AccessLevel WHERE AccessLevel.Id =
Users.NivelAcceso FOR JSON PATH, WITHOUT_ARRAY_WRAPPER)) AS NivelAcceso,
    ...
    FROM Users
    WHERE Users.Id = 1
    FOR JSON AUTO, WITHOUT_ARRAY_WRAPPER;
```

answered Dec 3 '18 at 16:04

jure
3,873   1   14   24

Awesome!, this resolve the problem. Thanks! – Victor   Dec 3 '18 at 16:18

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