TSQL - Return the query result set as formatted JSON.

Synopsys: Return the result set of a SQL stored procedure as formatted JSON. This is good for custom API endpoint or webhook processing.

Example Implementation

```sql
use [cph]
go

drop procedure if exists [dbo].[cp_APIGetBasicPatientInfo]
go

set ansi_nulls on
go

set quoted_identifier on
go


create procedure [dbo].[cp_APIGetBasicPatientInfo]

  @p_patid int,
  @jsonoutput nvarchar(max) output

as

  begin try
    set @jsonoutput =
    (
      select
      distinct [person].[pat_id],
      [person].[fname],
      [person].[lname]
      from [cph].[dbo].[cppat] as [person] -- primary table
      where [person].[pat_id] = @p_patid
      for json auto, include_null_values, root -- root because we want to see the root
    )
    end try
  begin catch
    -- returnsql specific error to the caller
    set @jsonoutput = 'error: ' + error_message();
  end catch
go
```

Calling the Stored Procedure

```
declare @result nvarchar(max);
exec [dbo].[cp_APIGetBasicPatientInfo] @p_patid = 1147, @jsonoutput = @result output;
select @result as outputmessage;
```

The resulting raw SQL output

```
{"person":[{"pat_id":1147,"fname":"Joe","lname":"Smith"}]}
```

The resulting formatted SQL output

```
{
  "person": [
    {
      "pat_id": 1147,
      "fname": "Joe",
      "lname": "Smith"
    }
  ]
}
```