
Posted by [AlenaAlenaAAA](#) on Sat, 04 Jan 2025 11:27:17 GMT
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WITH DepartmentHierarchy AS (

```
SELECT
  d.Id,
  dn.Name AS DepartmentName,
  d.IdParentDepartment,
  1 AS Level,
  CAST(dn.Name AS NVARCHAR(MAX)) AS FullDepartmentName,
  d.IdDepartmentName
```

```
FROM dbo.Departments d
INNER JOIN dbo.DepartmentName dn ON d.IdDepartmentName = dn.Id
```

```
UNION ALL
```

```
SELECT
    d.Id,
    dn.Name AS DepartmentName,
    d.IdParentDepartment,
    dh.Level + 1 AS Level,
    CAST(dh.FullDepartmentName + ' > ' + dn.Name AS NVARCHAR(MAX)) AS
FullDepartmentName,
    d.IdDepartmentName
FROM dbo.Departments d
INNER JOIN dbo.DepartmentName dn ON d.IdDepartmentName = dn.Id
INNER JOIN DepartmentHierarchy dh ON d.IdParentDepartment = dh.Id
)
```

```
SELECT
    dh.FullDepartmentName AS DepartmentHierarchy,
    dh.Level
FROM DepartmentHierarchy dh
ORDER BY dh.Level, dh.FullDepartmentName;
```

```
SELECT
    d.Id AS DepartmentId,
```

```
FROM Departments d
```

```
INNER JOIN DepartmentName d1 ON d1.Id = d.IdDepartmentName
```

```
LEFT JOIN Departments dp ON dp.Id = d.IdParentDepartment
LEFT JOIN DepartmentName d2 ON d2.Id = dp.IdDepartmentName
```

```
LEFT JOIN Departments gdp ON gdp.Id = dp.IdParentDepartment
LEFT JOIN DepartmentName d3 ON d3.Id = gdp.IdDepartmentName
ORDER BY Level1, Level2, Level3;
```

```
CREATE TABLE DepartmentName
(
  Id INT NOT NULL PRIMARY KEY IDENTITY(1,1),
  Name nvarchar(180) NOT NULL
);
```

```
CREATE TABLE Departments
(
  Id INT NOT NULL PRIMARY KEY IDENTITY(1,1),
  IdDepartmentName INT NOT NULL,
  IdParentDepartment INT,
  FOREIGN KEY (IdDepartmentName) REFERENCES DepartmentName(Id),
  FOREIGN KEY (IdParentDepartment) REFERENCES DepartmentName(Id)
);
```

File Attachments

1) [Screenshot_1.png](#), downloaded 99 times

