## Task Performance

Common Table Expression (CTE)

```
2.
      SQLite
                                  MS SQL
                                 1 CREATE TABLE [Students](
      MariaDB
                                      [ID] [varchar](50) NULL,
                                      [Name] [varchar](50) NULL,
      PostgreSQL
                                      [LeaderID] [varchar](50) NULL
                                 5);
      MS SQL
        TEST - v.4.3
        Table

⊞ demo

        ■ Students
         Column
         □ ID
         Name
```

```
3.
         MS SQL
        3 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-1', N'Baldo', N'NULL')
        4 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-2', N'Cardo', N'Stud-1')
        5 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-3', N'Pedro', N'Stud-1')
        6 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-4', N'Lunigning', N'Stud-1')
        7 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-5', N'Paolo', N'Stud-2')
        8 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-6', N'Bernardo', N'Stud-2')
        9 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-7', N'Reinaldo', N'Stud-2')
       10 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-8', N'Roberto', N'Stud-3')
       11 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-9', N'Narciso', N'Stud-3')
       12 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-10', N'Jopay', N'Stud-1')
       13 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-11', N'Policarpio', N'Stud-10')
       14 INSERT [dbo].[Students] ([ID], [Name], [LeaderID]) VALUES (N'Stud-12', N'Lunigning', N'Stud-10')
```

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*4-*5.

```
■ MS SQL
1
2 ;WITH RankingStudentsRanking(id,name,leaderid, Rank) AS
3 (
4 SELECT id, name, leaderid, 0
5 AS Rank
6 FROM Students
7 WHERE leaderid = 'NULL'
   UNION ALL
10
11 SELECT S.ID, S.Name, S.LeaderID,
   R.Rank+1
13 FROM Students S
14 INNER JOIN RankingStudents R
15 ON R.ID=S.LeaderID
16 )
17 SELECT leaderid, ID, Name, Rank
18 FROM RankingStudents;
```

: leaderid	ID	Name	Rank
Stud-1	Stud-3	Pedro	1
Stud-1	Stud-4	Lunigning	1
Stud-1	Stud-10	Jopay	1
Stud-10	Stud-11	Policarpio	2
Stud-10	Stud-12	Lunigning	2
Stud-3	Stud-8	Roberto	2
Stud-3	Stud-9	Narciso	2
Stud-2	Stud-5	Paolo	2
Stud-2	Stud-6	Bernardo	2
Stud-2	Stud-7	Reinaldo	2

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