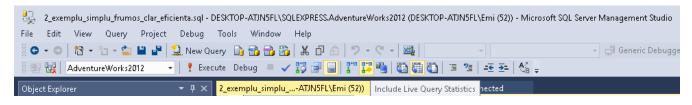
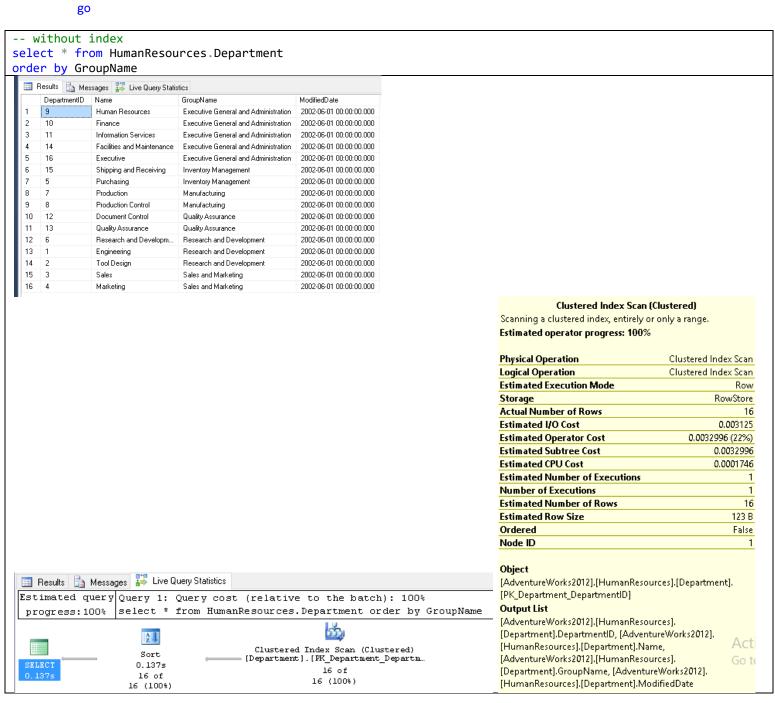
Example with Include Live Query Statistics



use AdventureWorks2012



```
DROP INDEX nidx_gn ON HumanResources.Department
              G0
              CREATE NONCLUSTERED INDEX nidx_gn
                    ON HumanResources.Department (GroupName);
-- with index
select * from HumanResources.Department
order by GroupName
  🟢 Results 🛅 Messages 岇 Live Query Statistics
  Estimated query Query 1: Query cost (relative to the batch): 100%
   progress:100%
                         -- with index select * from HumanResources.Department order by GroupName
                               C
                         Nested Loops
                                                             Index Scan (NonClustered)
                          (Inner Join)
                                                               [Department].[nidx_gn]
    SELECT
                             16 of
                                                                        16 of
                           16 (100%)
                                                                      16 (100%)
                                                               Kev Lookup (Clustered)
                                                       [Department].[PK_Department_Departm...
                                                                        16 of
                                                                       1 (1600%)
                                                                                                                     Key Lookup (Clustered)
                                                                                                      Uses a supplied clustering key to lookup on a table that
                                                                                                      has a clustered index.
                                                                                                      Estimated operator progress: 100%
                                                          Index Scan (NonClustered)
                                            Scan a nonclustered index, entirely or only a range.
                                                                                                      Physical Operation
                                                                                                                                               Key Lookup
                                            Estimated operator progress: 100%
                                                                                                      Logical Operation
                                                                                                                                                ey Lookup
                                                                                                      Estimated Execution Mode
                                                                                                                                                     Row
                                            Physical Operation
                                                                                          Index Scan
                                                                                                      Storage
                                                                                                                                                 RowStore
                                            Logical Operation
                                                                                         Index Scan
                                                                                                                                                     16
                                                                                                      Actual Number of Rows
                                            Estimated Execution Mode
               Nested Loops
                                                                                                Row Estimated Operator Cost
                                                                                                                                           0.0056546 (63%)
 For each row in the top (outer) input, scan the bottom
                                                                                            owStore Estimated I/O Cost
                                                                                                                                                  0.003125
                                            Storage
 (inner) input, and output matching rows.
                                                                                                 16 Estimated CPU Cost
                                                                                                                                                 0.0001581
                                            Actual Number of Rows
 Estimated operator progress: 100%
                                                                                                      Estimated Subtree Cost
                                                                                                                                                 0.0056546
                                            Estimated Operator Cost
                                                                                     0.0032996 (37%)
                               Nested Loops
 Physical Operation
                                                                                                      Number of Executions
                                                                                                                                                       16
                                            Estimated I/O Cost
                                                                                           0.003125
 Logical Operation
                                  Inner Join
                                                                                                      Estimated Number of Executions
                                                                                                                                                        16
                                            Estimated CPU Cost
                                                                                          0.0001746
 Estimated Execution Mode
                                     Row
                                                                                                      Estimated Number of Rows
                                                                                                                                                        1
 Actual Number of Rows
                                       16
                                            Estimated Subtree Cost
                                                                                          0.0032996
 Estimated I/O Cost
                                                                                                      Estimated Row Size
                                                                                                                                                      69 B
                                            Number of Executions
 Estimated Operator Cost
                              0.0000669 (1%)
                                                                                                      Ordered
                                                                                                                                                     True
                                  0.0090211
                                            Estimated Number of Executions
 Estimated Subtree Cost
                                                                                                      Node ID
                                                                                                                                                        3
 Estimated CPU Cost
                                  0.0000669
                                            Estimated Number of Rows
                                                                                                 16
 Estimated Number of Executions
                                            Estimated Row Size
                                                                                                63 B Object
 Number of Executions
 Estimated Number of Rows
                                       16
                                            Ordered
                                                                                               True [AdventureWorks2012].[HumanResources].
 Estimated Row Size
                                     123 B
                                            Node ID
                                                                                                   1 [Department].[PK_Department_DepartmentID]
 Node ID
                                                                                                      Output List
                                                                                                      [AdventureWorks2012].[HumanResources].
 Output List
                                            Object
 [AdventureWorks2012].[HumanResources].
                                                                                                      [Department].Name, [AdventureWorks2012].
                                            [AdventureWorks2012].[HumanResources].
 [Department].DepartmentID, [AdventureWorks2012].
                                                                                                      [Human Resources]. [Department]. Modified Date
                                            [Department].[nidx_gn]
 [Human Resources]. [Department]. Name, [Adventure Works 2012]. [Human Resources].
                                                                                                      Seek Predicates
                                            Output List
 [Department].GroupName, [AdventureWorks2012].
                                                                                                      Seek Keys[1]: Prefix: [AdventureWorks2012].
                                            [AdventureWorks2012].[HumanResources].
 [HumanResources].[Department].ModifiedDate
                                                                                                      [HumanResources]. [Department]. Department ID = \\
 Outer References
                                            [Department].DepartmentID, [AdventureWorks2012].
                                                                                                      Scalar Operator([AdventureWorks2012].
 [AdventureWorks2012].[HumanResources].
                                            [HumanResources].[Department].GroupName
                                                                                                      [HumanResources].[Department].[DepartmentID])
 [Department].DepartmentID
```

-- create index

IF EXISTS (SELECT name FROM sys.indexes

WHERE name = N'nidx_gn')