Без индекса

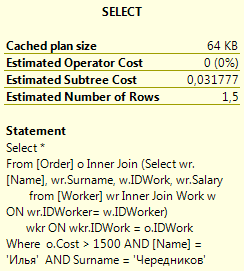
**Запрос**

Select \*

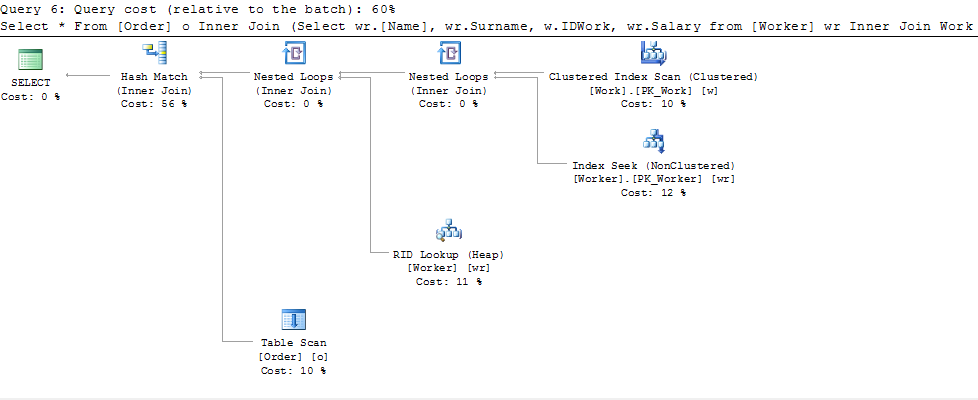
From [Order] o Inner Join (Select wr.[Name], wr.Surname, w.IDWork, wr.Salary

from [Worker] wr Inner Join Work w ON wr.IDWorker= w.IDWorker) wkr ON wkr.IDWork = o.IDWork

Where o.Cost > 1500 AND [Name] = 'Илья' AND Surname = 'Чередников'



**План выполнения**



**Кластерный составной индекс**

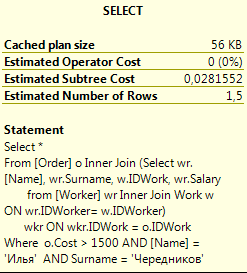
**CREATE CLUSTERED INDEX CL\_INDEX\_Worker\_COMPOSITE**

ON [dbo].Worker([Name], [Surname], [Salary])

CREATE CLUSTERED INDEX CL\_INDEX\_Order

ON [dbo].[Order]([Cost])

Ускорение



Кластерный уникальный индекс

**Запрос**

Select \*

From [MaterialOrder] mo inner join [Model\_Material\_Quantity] mm On mo.IDModel\_Material\_Quantity = mm.IDModel\_Material\_Quantity

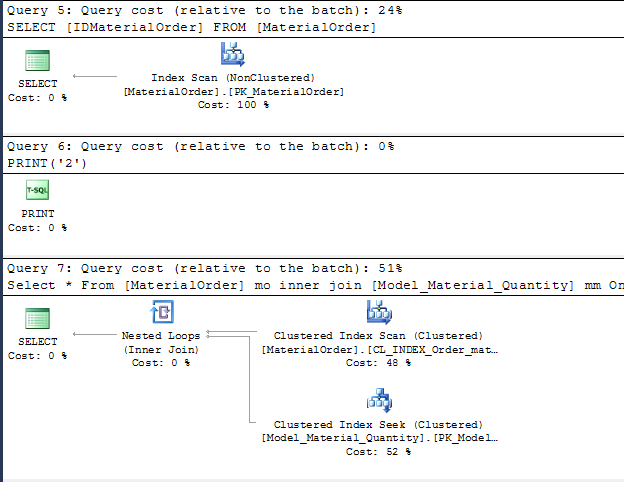
Where Quantity Between 1 and 3

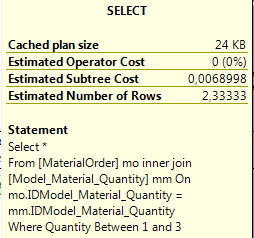
**Индекс**

create clustered index CL\_INDEX\_Order\_material

ON [dbo].[MaterialOrder]([IDMaterialOrder])

**План выполнения**





Покрывающий индекс

**Запрос**

**SELECT MMQ.Quantity, MO.StartDate, MO.EndDate**

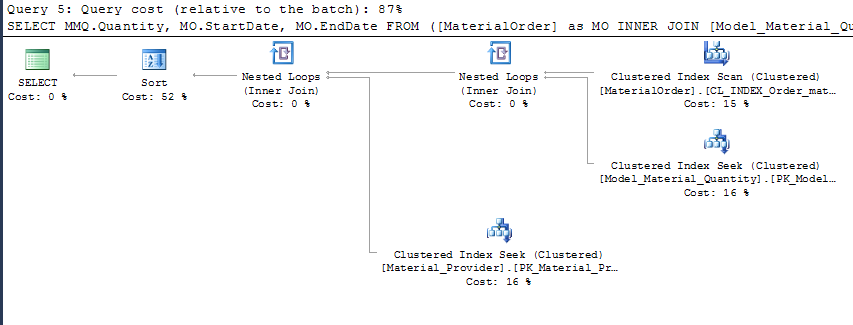
FROM ([MaterialOrder] as MO

INNER JOIN [Model\_Material\_Quantity] as MMQ ON MO.IDModel\_Material\_Quantity = MMQ.IDModel\_Material\_Quantity)

INNER JOIN [Material\_Provider] as MP ON MO.IDMaterial\_Provider = MP.IDMaterial\_Provider

ORDER BY Cost DESC

**План выполнения**

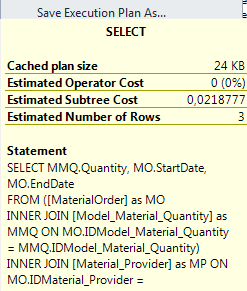
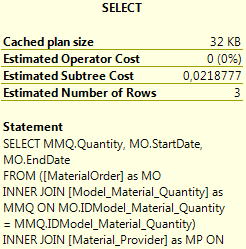


**Индекс**

CREATE NONCLUSTERED INDEX NonCL\_INDEX\_Order\_material\_COVERING --ПОКРЫВЫАЮЩИЙ

ON [dbo].[MaterialOrder]([IDModel\_Material\_Quantity],[IDMaterial\_Provider])

**План выполнения с индексом**



Индекс с фильтрацией

**Запрос**

SELECT MO.StartDate, MO.EndDate, MMQ.Quantity, MP.Cost

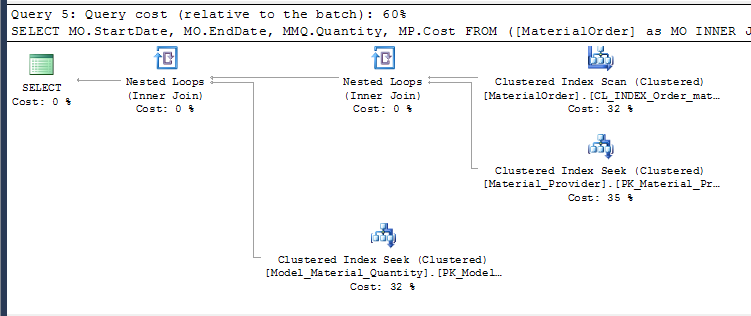
FROM ([MaterialOrder] as MO

INNER JOIN Model\_Material\_Quantity as MMQ ON MO.IDModel\_Material\_Quantity = MMQ.IDModel\_Material\_Quantity)

INNER JOIN Material\_Provider as MP ON MO.IDMaterial\_Provider = MP.IDMaterial\_Provider

WHERE MMQ.Quantity >= 2 AND MP.Cost < 400

**План выполнения**

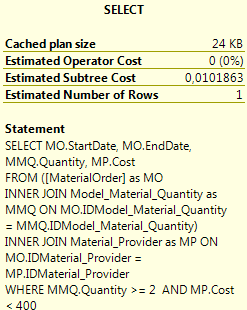


**Индекс**

**CREATE NONCLUSTERED INDEX NonCL\_INDEX\_Order\_material\_Filter --с включёнными строками**

ON [dbo].[MaterialOrder]([IDModel\_Material\_Quantity], [IDMaterial\_Provider])

WHERE ([IDMaterial\_Provider] < 20 AND [IDMaterial\_Provider] > 3) AND ([IDModel\_Material\_Quantity] IN (3,5,7))



Индекс с включенными столбцами

**Запрос**

SELECT MO.StartDate, MO.EndDate

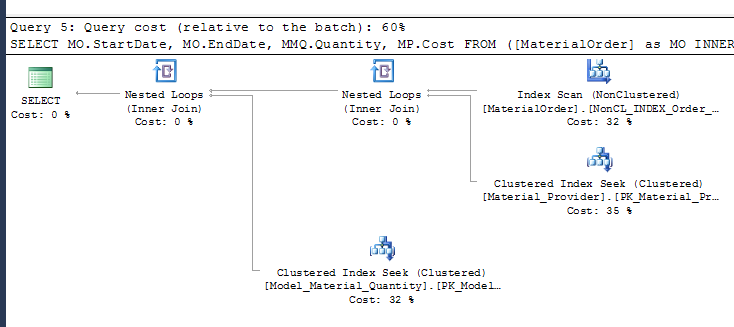
FROM ([MaterialOrder] as MO

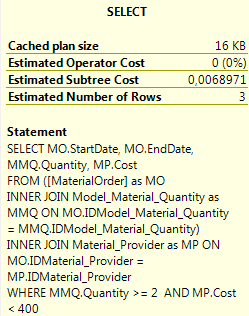
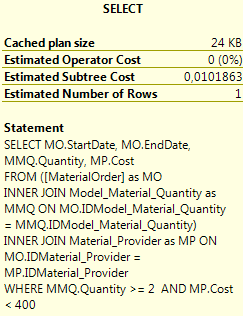
INNER JOIN Model\_Material\_Quantity as MMQ ON MO.IDModel\_Material\_Quantity = MMQ.IDModel\_Material\_Quantity)

INNER JOIN Material\_Provider as MP ON MO.IDMaterial\_Provider = MP.IDMaterial\_Provider

WHERE MMQ.Quantity >= 2 AND MP.Cost < 400

**План выполнения**





**Индекс**

CREATE NONCLUSTERED INDEX NonCL\_INDEX\_Order\_material\_Column --с включёнными таблицами

ON [dbo].MaterialOrder([IDModel\_Material\_Quantity], [IDMaterial\_Provider])

INCLUDE([StartDate], [EndDate])