### 1. Кластерный индекс

Создаем копию таблицы theme и заполняем ее 100 000 строками

24 KB

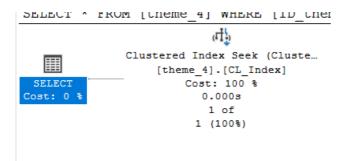
0 (0%)

0.295504

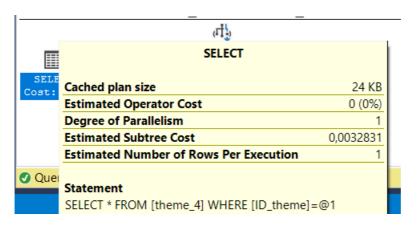
```
select *from theme 4
where ID theme = 1000
  SELECT * FROM [theme 4] WHE
                       1
                   Table Scan
                    [theme 4]
                   Cost: 100 %
  Cost: 0 %
                     0.008s
                      1 of
                    1 (100%)
                        1
                            SELECT
       Cached plan size
       Estimated Operator Cost
       Degree of Parallelism
       Estimated Subtree Cost
       Estimated Number of Rows Per Execution
```

CREATE CLUSTERED INDEX CL\_Index
ON theme\_4(ID\_theme);

Statement



SELECT \* FROM [theme\_4] WHERE [ID\_theme]=@1



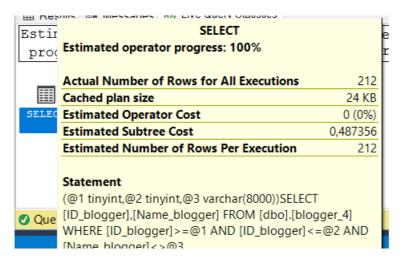
## 2. Некластерный индекс (Составной индекс)

Создадим копию таблицы блогеры и заполним 100000 строк.

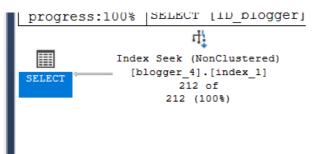
```
SELECT [ID_blogger], [Name_blogger]
FROM [dbo].[blogger_4]
WHERE [ID_blogger] BETWEEN 1 AND 212
AND [Name_blogger] != 'a';

progress:100% | (@1 tinyint, @2

Table Scan
[blogger_4]
212 of
212 (100%)
```



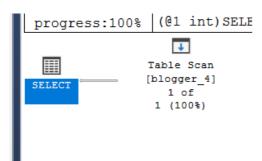
CREATE INDEX index\_1
on [dbo].[blogger\_4]([ID\_blogger], [Name\_blogger]);

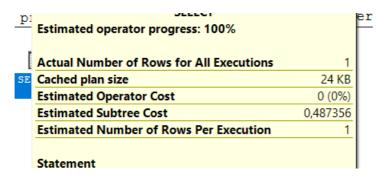


Est:	SELECT Estimated operator progress: 100%	, )
_ ا	Actual Number of Rows for All Executions	212
	Cached plan size	24 KB
SEL	<b>Estimated Operator Cost</b>	0 (0%)
	Estimated Subtree Cost	0,0035152
	Estimated Number of Rows Per Execution	212
	Statement SELECT [ID_blogger], [Name_blogger]	

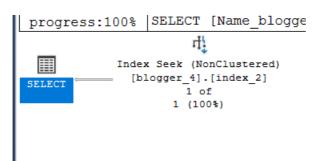
### 3. Некластерный индекс (Покрывающий)

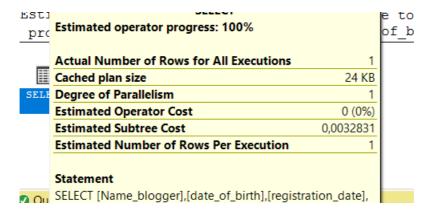
```
SELECT [Name_blogger], [date_of_birth], [registration_date], [language_blogger]
FROM [dbo].[blogger_4]
WHERE [ID_blogger] = 92000;
```





```
CREATE INDEX index_2
ON [dbo].[blogger_4]([ID_blogger])
INCLUDE ([Name_blogger], [date_of_birth], [registration_date], [language_blogger])
```



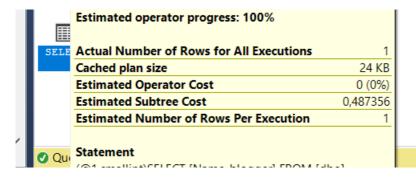


# 4. Некластерный индекс (Уникальный)

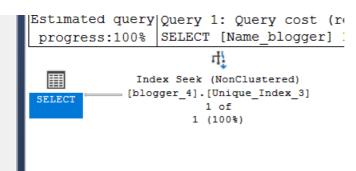
```
SELECT [Name_blogger]
FROM [dbo].[blogger_4]
WHERE [ID_blogger] = 2000;

progress:100% | (@1 smallint)

Table Scan
[blogger_4]
1 of
1 (100%)
```

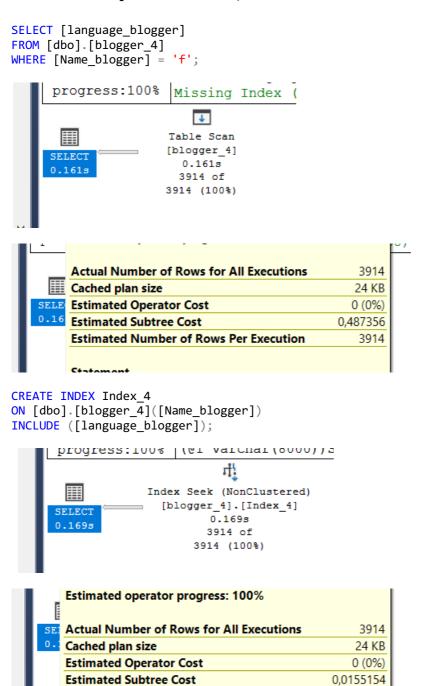


```
CREATE UNIQUE INDEX Unique_Index_3
ON [dbo].[blogger_4]([ID_blogger])
INCLUDE ([Name_blogger])
```



	Estimated operator progress. 100 /6	
	Actual Number of Rows for All Executions	1
SELE	Cached plan size	16 KB
	Degree of Parallelism	1
	<b>Estimated Operator Cost</b>	0 (0%)
	Estimated Subtree Cost	0,0032831
	<b>Estimated Number of Rows Per Execution</b>	1
Our	Statement	

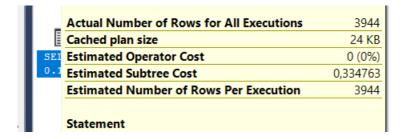
## 5. Некластерный индекс (С включенными столбцами)



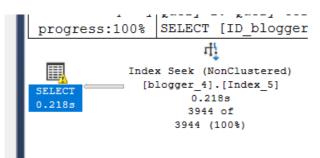
**Estimated Number of Rows Per Execution** 

3914

## 6. Некластерный индекс (Отфильтрованный)



```
CREATE INDEX Index_5
ON [dbo].[blogger_4]([Name_blogger])
INCLUDE ([ID_blogger])
WHERE [Name_blogger] = 'M'
```



pr	Estimated operator progress: 100%	f
	Actual Number of Rows for All Executions	3944
SEL	Cached plan size	24 KB
0.2	Estimated Operator Cost	0 (0%)
	Estimated Subtree Cost	0,0076204
	<b>Estimated Number of Rows Per Execution</b>	3944
	Statement	