

Профилирование запросов

- Залил YouTube датасет.
- Настроил трейс логи и выполнил запрос вне индекса:

```
SELECT count()  
FROM youtube  
WHERE view_count = '110011'
```

```
(SelectExecutor): Key condition: unknown  
(SelectExecutor): Filtering marks by primary and secondary keys  
(SelectExecutor): Selected 9/9 parts by partition key, 9 parts by primary key, 9526/9526 marks by primary key, 9526 marks to read  
(SelectExecutor): Spreading mark ranges among streams (default reading)  
(SelectExecutor): Reading approx. 77638767 rows with 2 streams
```

- Выполнил запрос в рамках индекса:

```
SELECT count()  
FROM youtube  
WHERE upload_date = '2011-05-06'  
FORMAT `null`
```

```
(SelectExecutor): Key condition: (column 1 in [15100, 15100])  
(SelectExecutor): Filtering marks by primary and secondary keys  
(SelectExecutor): Used generic exclusion search over index for part all_1_33_2 with 2815 steps  
(SelectExecutor): Used generic exclusion search over index for part all_34_66_2 with 2920 steps  
(SelectExecutor): Used generic exclusion search over index for part all_96_125_2 with 1827 steps  
(SelectExecutor): Used generic exclusion search over index for part all_67_95_2 with 1831 steps  
(SelectExecutor): Used generic exclusion search over index for part all_150_155_1 with 327 steps  
(SelectExecutor): Used generic exclusion search over index for part all_156_162_1 with 458 steps  
(SelectExecutor): Used generic exclusion search over index for part all_126_149_2 with 1649 steps  
(SelectExecutor): Used generic exclusion search over index for part all_168_172_1 with 285 steps  
(SelectExecutor): Used generic exclusion search over index for part all_163_167_1 with 280 steps  
(SelectExecutor): Selected 9/9 parts by partition key, 9 parts by primary key, 9512/9526 marks by primary key, 9512 marks to read
```

```
EXPLAIN indexes = 1  
SELECT count()  
FROM youtube  
WHERE upload_date = '2011-05-06'
```

```
explain  
Expression ((Project names + Projection))  
  Aggregating  
    Expression (Before GROUP BY)  
      Filter ((WHERE + Change column names to column identifiers))  
        ReadFromMergeTree (default.youtube)  
        Indexes:  
          PrimaryKey  
            Keys:  
              upload_date  
            Condition: (upload_date in [15100, 15100])  
            Parts: 9/9  
            Granules: 9512/9526
```

