Условия ДЗ:

- 1. По заданным описаниям таблиц и вставки данных определить используемый движок
- 2. Заполнить пропуски, запустить код
- 3. Сравнить полученный вывод и результат из условия

```
CREATE TABLE tbl1
(
    UserID UInt64,
    PageViews UInt8,
    Duration UInt8,
    Sign Int8,
    Version UInt8
)
ENGINE = <ENGINE>
ORDER BY UserID;

INSERT INTO tbl1 VALUES (4324182021466249494, 5, 146, -1, 1);
INSERT INTO tbl1 VALUES (4324182021466249494, 5, 146, 1,
1),(4324182021466249494, 6, 185, 1, 2);
```

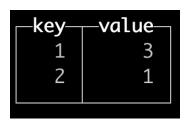
SELECT * FROM tbl1;

UserID—	—PageViews—	—Duration—	—Sign—	—Version—
4324182021466249494	5	146	1	1
4324182021466249494	6	185	1	2
llconTD	PagoVi ows	Dungtion	Sian	Voncion
USEPID	—PageViews—	buracton	_3 Lgn	_ver.2ron_
4324182021466249494	5	146	-1	1

```
SELECT * FROM tbl1 final;
```

–PageViews–	-Duration $-$	—Sign—	—Version—
6	185	1	2
	_	9	-PageViews Duration Sign 6 185 1

```
CREATE TABLE tb12
(
    key UInt32,
    value UInt32
)
ENGINE = <ENGINE>
ORDER BY key;
INSERT INTO tb12 Values(1,1),(1,2),(2,1);
select * from tb12;
```



```
INSERT INTO tbl3 VALUES (23, 'success', '1000', 'Confirmed');
INSERT INTO tbl3 VALUES (23, 'success', '2000', 'Cancelled');
```

SELECT * from tbl3 WHERE id=23;

id	— status —	—price—	-comment
23	success	2000	Cancelled
_id23	- status	price	-comment
	success	1000	Confirmed

SELECT * from tbl3 FINAL WHERE id=23;

⊢id—	_status—	—price—	-comment
23	success	2000	Cancelled

```
CREATE TABLE tbl4

( CounterID UInt8,
    StartDate Date,
    UserID UInt64
) ENGINE = <ENGINE>
PARTITION BY toYYYYMM(StartDate)

ORDER BY (CounterID, StartDate);

INSERT INTO tbl4 VALUES(0, '2019-11-11', 1);

INSERT INTO tbl4 VALUES(1, '2019-11-12', 1);

CREATE TABLE tbl5

( CounterID UInt8,
    StartDate Date,
```

```
UserID AggregateFunction(uniq, UInt64)
) ENGINE = <ENGINE>
PARTITION BY toYYYYMM(StartDate)
ORDER BY (CounterID, StartDate);
INSERT INTO tbl5
select CounterID, StartDate, uniqState(UserID)
from tbl4
group by CounterID, StartDate;
INSERT INTO tbl5 VALUES (1,'2019-11-12',1);
Exception on client:
Code: 53. DB::Exception: Cannot convert UInt64 to AggregateFunction(uniq, UInt64): While executing ValuesBlockInpu
tFormat: data for INSERT was parsed from query. (TYPE_MISMATCH)
SELECT uniqMerge (UserID) AS state
FROM tbl5
GROUP BY CounterID, StartDate;
CREATE TABLE tb16
(
    `id` Int32,
    `status` String,
    `price` String,
    `comment` String,
    `sign` Int8
)
ENGINE = <ENGINE>
PRIMARY KEY (id)
ORDER BY (id, status);
```

```
INSERT INTO tbl6 VALUES (23, 'success', '1000', 'Confirmed', 1);
INSERT INTO tbl6 VALUES (23, 'success', '1000', 'Confirmed',
-1), (23, 'success', '2000', 'Cancelled', 1);
SELECT * FROM tbl6;
```



SELECT * FROM tbl6 FINAL;



Формат сдачи ДЗ:

- Сделать отчет со всеми указанными запросами и результатами их выполнения. Почему в каждом из вариантов выбрали именно этот движок?
- Описать проблемы, с чем столкнулись и как решили

Источники и справочные материалы:

• https://dev.to/hoptical/clickhouse-basic-tutorial-table-engines-30i1

- https://www.alibabacloud.com/blog/selecting-a-clickhouse-table-eng
 ine_597726
- https://clickhouse.com/docs/en/engines/table-engines/mergetree-fa
 mily/summingmergetree