

1. Создать новую базу данных и перейти в нее.

```
envy :) CREATE DATABASE IF NOT EXISTS restaurant;

CREATE DATABASE IF NOT EXISTS restaurant

Query id: 2f9b5549-1582-4258-a9f0-3f612a946421

Ok.

0 rows in set. Elapsed: 0.051 sec.

envy :) 
```

2. Создать таблицу для бизнес-кейса "Меню ресторана" с 5+ полями, наполнить ее данными. Обязательно указывать, где нужно, модификаторы Nullable, LowCardinality и пр. Добавить комментарии.

```
envy :) ALTER TABLE menu MODIFY COLUMN `id` UInt32 DEFAULT rowNumberInAllBlocks() + 1;

ALTER TABLE menu
(MODIFY COLUMN `id` UInt32 DEFAULT rowNumberInAllBlocks() + 1)

Query id: 288582ae-b27c-4636-8926-90a1a43091ef

Ok.

0 rows in set. Elapsed: 0.051 sec.

envy :) INSERT INTO menu(name, ingredients, description, price)
VALUES
('Tomato soup', 'Tomato', 'best soup in the world', 1000),
('Mac'n'cheese', 'Pasta, cheese', 'top', 2000);

INSERT INTO menu (name, ingredients, description, price) FORMAT Values

Query id: e88ef461-ec95-4e9a-b456-47202c8b81d4

Ok.

2 rows in set. Elapsed: 0.008 sec.

envy :) select * from menu

SELECT *
FROM menu

Query id: 0c8eba0c-8455-403c-b3a8-1d7a7fc81827
```

id	name	ingredients	description	portion sizes	price	cooking time
2	Mac'n'cheese	Pasta, cheese	top	NULL	2000	NULL
1	Tomato soup	Tomato	best soup in the world	NULL	1000	NULL

3. Протестировать CRUD на созданной таблице.

```
envy :) ALTER TABLE menu UPDATE description = 'NEW description' WHERE id = 2;
```

```
ALTER TABLE menu
  (UPDATE description = 'NEW description' WHERE id = 2)
```

Query id: 8b670089-bf96-4cf2-9ab2-a50a8a6615dc

Ok.

0 rows in set. Elapsed: 0.036 sec.

```
envy :) select * from menu
```

```
SELECT *
FROM menu
```

Query id: aa064488-b3cd-4783-9e0b-5e4b890e54df

	id	name	ingridients	description	portion sizes	price
1.	2	Mac'n'cheese	Pasta, cheese	NEW description	NULL	2000
2.	1	Tomato soup	Tomato	best soup in the world	NULL	1000

2 rows in set. Elapsed: 0.004 sec.

```
envy :) ALTER TABLE menu delete where id = 1;
```

```
ALTER TABLE menu
  (DELETE WHERE id = 1)
```

Query id: f4e053d2-986c-4660-adc2-c1c7450b801e

Ok.

0 rows in set. Elapsed: 0.047 sec.

```
envy :)
```

4. Добавить несколько новых полей, удалить пару старых.

```
envy :) ALTER TABLE menu ADD COLUMN `LOADED` DateTime MATERIALIZED now() AFTER `cooking time`;
```

```
ALTER TABLE menu
  (ADD COLUMN `LOADED` DateTime MATERIALIZED now() AFTER `cooking time`)
```

Query id: 7367c27e-30e6-4572-b779-d48a049ff366

Ok.

0 rows in set. Elapsed: 0.045 sec.

```
envy :) ALTER TABLE menu DROP COLUMN `cooking time`;
```

```
ALTER TABLE menu
  (DROP COLUMN `cooking time`)
```

Query id: be7330a7-744a-48f2-a2e4-e7bfa9dcd8b6

Ok.

0 rows in set. Elapsed: 0.132 sec.

```
envy :) SELECT * FROM menu
```

```
SELECT *
FROM menu
```

Query id: 384bf3f5-0c8a-4288-9c8d-fda79c2f9de9

	id	name	ingridients	description	portion sizes	price
1.	2	Mac'n'cheese	Pasta, cheese	top	NULL	2000
2.	1	Tomato soup	Tomato	best soup in the world	NULL	1000

2 rows in set. Elapsed: 0.008 sec.

```
envy :)
```

5. Заселектить таблицу (любую) из sample dataset

```
envy :) select * from dish limit 5 \G

SELECT *
FROM dish
LIMIT 5

Query id: b7e3fb0d-ad77-40dc-8a99-e9afaa0fd87a

Row 1:
-----
id:          1
name:        Consomme printaniere royal
description:
menus_appeared: 8
times_appeared: 8
first_appeared: 1897
last_appeared:  1927
lowest_price:   0.2
highest_price:  0.4

Row 2:
-----
id:          2
name:        Chicken gumbo
description:
menus_appeared: 111
times_appeared: 117
first_appeared: 1895
last_appeared:  1960
lowest_price:   0.1
highest_price:  0.8

Row 3:
-----
id:          3
```

6. Материализовать таблицу из п.5 (в виде таблицы)

```
envy :) CREATE TABLE menu_v2 AS menu

CREATE TABLE menu_v2 AS menu

Query id: 8c7a6448-a9c9-4564-b991-9cb0da456259

Ok.

0 rows in set. Elapsed: 0.130 sec.

envy :) █
```

7. Поработать с партами. Сделать attach/detach/drop. Добавить данных в первоначально созданную таблицу.

```
envy :) ALTER TABLE menu_new_v2 REPLACE PARTITION '95TH REGULAR MEETING' FROM menu_new;  
  
ALTER TABLE menu_new_v2  
  (REPLACE PARTITION '95TH REGULAR MEETING' FROM menu_new)  
  
Query id: 7c11491c-5422-4927-876c-5575165874d7  
  
Ok.  
  
0 rows in set. Elapsed: 0.004 sec.  
  
envy :) █
```

(сделал на новой таблице с указанием партиционирования)

```
envy :) ALTER TABLE menu DETACH PART 'all_1_1_0'  
  
ALTER TABLE menu  
  (DETACH PART 'all_1_1_0')  
  
Query id: 37a25b40-0fb5-4961-82a9-68f4e24e589f  
  
Ok.  
  
0 rows in set. Elapsed: 0.002 sec.
```

```
envy :) ALTER TABLE dish DROP PART 'all_1_1_0'  
  
ALTER TABLE dish  
  (DROP PART 'all_1_1_0')  
  
Query id: faf389ed-b6c1-449f-97c9-58ba8eb081ee  
  
Ok.  
  
0 rows in set. Elapsed: 0.002 sec.  
  
envy :) █
```

```
envy :) ALTER TABLE menu DETACH PART 'all_1_1_0'
```

```
ALTER TABLE menu  
  (DETACH PART 'all_1_1_0')
```

```
Query id: 37a25b40-0fb5-4961-82a9-68f4e24e589f
```

```
Ok.
```

```
0 rows in set. Elapsed: 0.002 sec.
```

```
envy :) ALTER TABLE menu attach PART 'all_1_1_0'
```

```
ALTER TABLE menu  
  (ATTACH PART 'all_1_1_0')
```

```
Query id: 296826e3-5ba9-4acf-bb58-cfd8c4a8db0a
```

```
Ok.
```

```
0 rows in set. Elapsed: 0.004 sec.
```

```
envy :) ☐
```