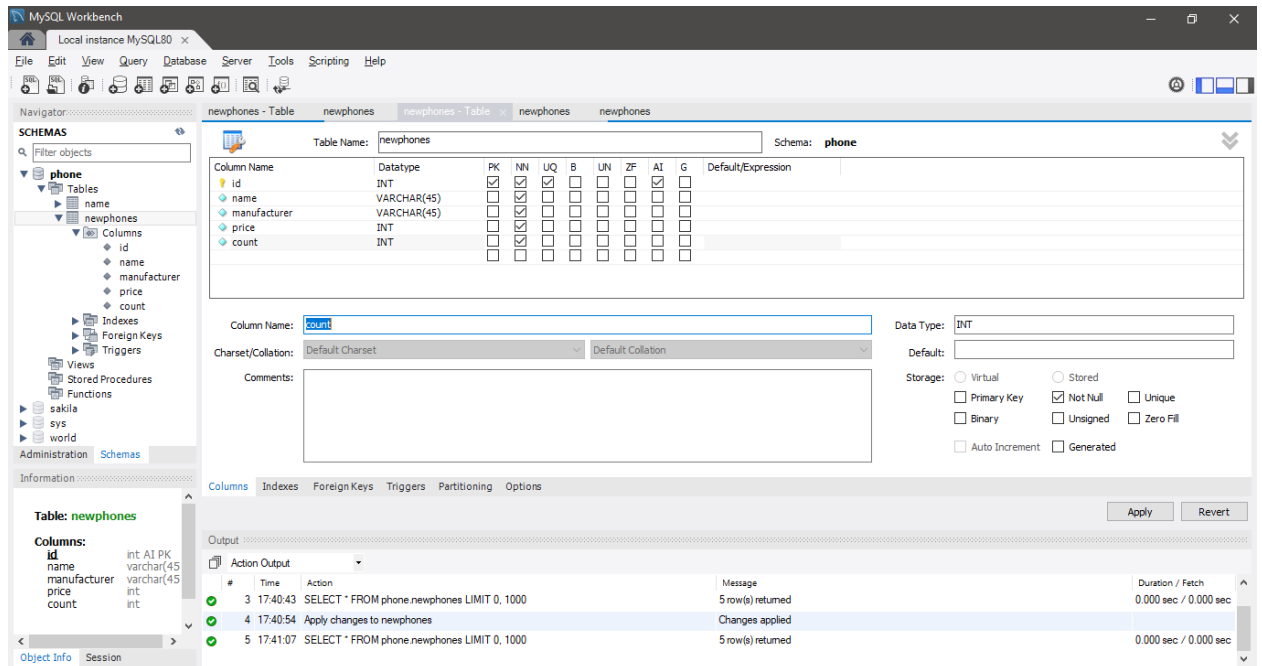


1. Создайте таблицу с мобильными телефонами, используя графический интерфейс. Заполните БД данными



MySQL Workbench interface showing the 'newphones' table and its data.

Table: newphones

id	name	manufacturer	price	count
1	iPhone X	Apple	75000	1
2	iPhone 11	Apple	80000	3
3	Galaxy S9	Samsung	55000	1
4	Galaxy S8	Samsung	50000	5
5	P20Pro	Huawei	36000	4

Query: `SELECT * FROM phone.newphones;`

Result Grid:

#	Time	Action	Message	Duration / Fetch
25	19:14:49	SELECT name, manufacturer, price FROM phone.newphones WHERE count > 2 LIMIT 0, 1...	3 row(s) returned	0.000 sec / 0.000 sec
26	19:15:25	SELECT name, manufacturer, price FROM phone.newphones WHERE count > 2 LIMIT 0, 1...	3 row(s) returned	0.000 sec / 0.000 sec
27	19:16:10	SELECT * FROM phone.newphones LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

2. Выведите название, производителя и цену для товаров, количество которых превышает 2

MySQL Workbench interface showing the 'newphones' table and its data, with a query that filters for items with a count greater than 2.

Table: newphones

id	name	manufacturer	price	count
1	iPhone X	Apple	75000	1
2	iPhone 11	Apple	80000	3
3	Galaxy S9	Samsung	55000	1
4	Galaxy S8	Samsung	50000	5
5	P20Pro	Huawei	36000	4

Query: `SELECT name, manufacturer, price FROM phone.newphones WHERE count > 2;`

Result Grid:

#	Time	Action	Message	Duration / Fetch
24	19:13:44	SELECT name, manufacturer, price FROM phone.newphones WHERE count > 2 LIMIT 0, 1...	2 row(s) returned	0.000 sec / 0.000 sec
25	19:14:49	SELECT name, manufacturer, price FROM phone.newphones WHERE count > 2 LIMIT 0, 1...	3 row(s) returned	0.000 sec / 0.000 sec
26	19:15:25	SELECT name, manufacturer, price FROM phone.newphones WHERE count > 2 LIMIT 0, 1...	3 row(s) returned	0.000 sec / 0.000 sec

3. Выведите весь ассортимент товаров марки "Samsung"

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left shows the 'phone' database containing the 'newphones' table. The 'Query' editor contains the following SQL code:

```
-- 2. Выведите название, производителя и цену для товаров, количество которых превышает 2
2 • SELECT name, manufacturer, price
3 FROM newphones
4 WHERE count > 2;

-- 3. Выведите весь ассортимент товаров марки "Samsung"
7 • SELECT * FROM newphones
8 WHERE manufacturer = 'Samsung';
```

The 'Result Grid' shows the results of the second query, displaying two rows of Samsung products:

id	name	manufacturer	price	count
3	Galaxy S9	Samsung	55000	0
4	Galaxy S8	Samsung	50000	0

The 'Information' pane at the bottom shows the execution log with three entries:

#	Time	Action	Message	Duration / Fetch
17	19:02:08	SELECT name, manufacturer, price FROM newphones WHERE count > 2 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
18	19:03:36	SELECT name, manufacturer, price FROM newphones WHERE count > 2 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
19	19:06:45	SELECT * FROM newphones WHERE manufacturer = 'Samsung' LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

4. Выведите информацию о телефонах, где суммарный чек больше 100000 и меньше 145000 (цшибка)

The screenshot shows the MySQL Workbench interface. The 'Query' editor contains the following SQL code:

```
1 • SELECT * FROM phone.newphones;

-- 4. Выведите информацию о телефонах, где суммарный чек больше 100000 и меньше 145000
4 -- UPDATE newphones
5 -- SET price = price * count;
6 • SELECT price * count res
7 FROM newphone
8 WHERE res > 100000 AND res < 145000;
10
```

The 'Result Grid' shows the results of the first query, displaying five rows of products:

id	name	manufacturer	price	count
1	iPhone X	Apple	75000	1
2	iPhone 11	Apple	80000	3
3	Galaxy S9	Samsung	55000	1
4	Galaxy S8	Samsung	50000	5
5	P20Pro	Huawei	36000	4

The 'Information' pane at the bottom shows the execution log with three entries:

#	Time	Action	Message	Duration / Fetch
70	21:51:25	SELECT * FROM phone.newphones LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
71	21:53:26	SELECT price * count res FROM newphone WHERE res > 100000 AND res < 145000 LIMIT 0, 1000	Error Code: 1146. Table 'phone.newphone' doesn't exist	0.000 sec
72	21:53:35	SELECT * FROM phone.newphones LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

5. С помощью регулярных выражений найти (можно использовать операторы "LIKE", "RLIKE для 5.3"):

5.1. Товары, в которых есть упоминание "Iphone"

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
1 SELECT * FROM phone.newphones;
2
3 /* 5. С помощью регулярных выражений найти (можно использовать операторы "LIKE", "RLIKE для 5.3") :
4 5.1. Товары, в которых есть упоминание "Iphone"
5 5.2. "Galaxy"
6 5.3. Товары, в которых есть ЦИФРЫ
7 5.4. Товары, в которых есть ЦИФРА "8"
8 */
9 SELECT * FROM newphones
10 WHERE name LIKE '%Iphone%';
```

The Result Grid shows the following data:

id	name	manufacturer	price	count
1	iPhone X	Apple	75000	1
2	iPhone 11	Apple	80000	3

The Information panel shows the structure of the newphones table:

Columns:	int AI PK	varchar(45)	int	int
id				
name				
manufacturer				
price				
count				

The Action Output panel shows the execution results:

#	Time	Action	Message	Duration / Fetch
40	19:25:34	SELECT FROM newphones WHERE name LIKE "%Galaxy%" LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
41	19:26:47	SELECT FROM newphones WHERE name LIKE "%8%" LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
42	19:26:52	SELECT FROM newphones WHERE name LIKE "%Iphone%" LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

5.2. "Galaxy"

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
7 5.4. Товары, в которых есть ЦИФРА "8"
8 */
9 SELECT * FROM newphones
10 WHERE name LIKE '%Iphone%';
11
12 SELECT * FROM newphones
13 WHERE name LIKE '%Galaxy%';
14
15 SELECT * FROM newphones
16 WHERE name LIKE '%8%';
```

The Result Grid shows the following data:

id	name	manufacturer	price	count
3	Galaxy S9	Samsung	55000	1
4	Galaxy S8	Samsung	50000	5

The Information panel shows the structure of the newphones table:

Columns:	int AI PK	varchar(45)	int	int
id				
name				
manufacturer				
price				
count				

The Action Output panel shows the execution results:

#	Time	Action	Message	Duration / Fetch
41	19:26:47	SELECT FROM newphones WHERE name LIKE "%8%" LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
42	19:26:52	SELECT FROM newphones WHERE name LIKE "%Iphone%" LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
43	19:27:53	SELECT FROM newphones WHERE name LIKE "%Galaxy%" LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

5.3. Товары, в которых есть ЦИФРЫ (что-то пошло не так)

MySQL Workbench interface showing a query execution for the 'newphones' table. The query is:

```

14 WHERE name LIKE '%iPhone%';
15
16 SELECT*FROM newphones
17 WHERE name LIKE '%Galaxy%';
18
19 SELECT*FROM newphones
20 WHERE name LIKE '%S%';
21
22 SELECT*FROM newphones
23 WHERE REGEXP_LIKE(name, '^[a-z]\d+$', 'i');

```

The Result Grid shows the following data:

id	name	manufacturer	price	count
1	iPhone 11	Apple	80000	3
2	Galaxy S9	Samsung	55000	1
3	Galaxy S8	Samsung	50000	5

The Action Output shows the following results:

#	Time	Action	Message	Duration / Fetch
55	19:59:59	SELECT*FROM newphones WHERE REGEXP_LIKE(name, '^[a-z]\d+\$', 'i') AND REGEXP...	0 row(s) returned	0.016 sec / 0.000 sec
56	20:01:36	SELECT*FROM newphones WHERE REGEXP_LIKE(name, '^[a-z]\d+\$', 'i') LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
57	21:20:20	SELECT*FROM newphones WHERE REGEXP_LIKE(name, '^[a-z]\d+\$', 'i') LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench interface showing a query execution for the 'newphones' table. The query is:

```

14 WHERE name LIKE '%iPhone%';
15
16 SELECT*FROM newphones
17 WHERE name LIKE '%Galaxy%';
18
19 SELECT*FROM newphones
20 WHERE name LIKE '%S%';
21
22 SELECT*FROM newphones
23 WHERE name RLIKE '^[0-9]+$';

```

The Result Grid shows the following data:

id	name	manufacturer	price	count
2	iPhone 11	Apple	80000	3
3	Galaxy S9	Samsung	55000	1
4	Galaxy S8	Samsung	50000	5

The Action Output shows the following results:

#	Time	Action	Message	Duration / Fetch
50	19:55:06	SELECT*FROM newphones WHERE name RLIKE '^[A-Za-z][0-9]+\$' LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
51	19:55:43	SELECT*FROM newphones WHERE name RLIKE '^[0-9]+\$' LIMIT 0, 1000	0 row(s) returned	0.015 sec / 0.000 sec
52	19:55:58	SELECT*FROM newphones WHERE name RLIKE '^[0-9]+\$' LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

5.4. Товары, в которых есть ЦИФРА "8"

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

phone

Tables

name

newphones

Columns

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

sakila

sys

world

Administration Schemas

Information

Table: newphones

Columns:

id int AI PK

name varchar(45)

manufacturer varchar(45)

price int

count int

Object Info Session

newphones

Limit to 1000 rows

5.4. Товары, в которых есть ЦАПРА "8"

*/

SELECT*FROM newphones

WHERE name LIKE '%iPhone%';

SELECT*FROM newphones

WHERE name LIKE '%Galaxy%';

SELECT*FROM newphones

WHERE name LIKE '%8%';

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content: 13

id	name	manufacturer	price	count
4	Galaxy S8	Samsung	50000	5

newphones 9

Output

Action Output

#	Time	Action	Message	Duration / Fetch
42	19:26:52	SELECT*FROM newphones WHERE name LIKE "%iPhone%" LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
43	19:27:53	SELECT*FROM newphones WHERE name LIKE "%Galaxy%" LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
44	19:28:19	SELECT*FROM newphones WHERE name LIKE "%8%" LIMIT 0, 1000	1 row(s) returned	0.016 sec / 0.000 sec