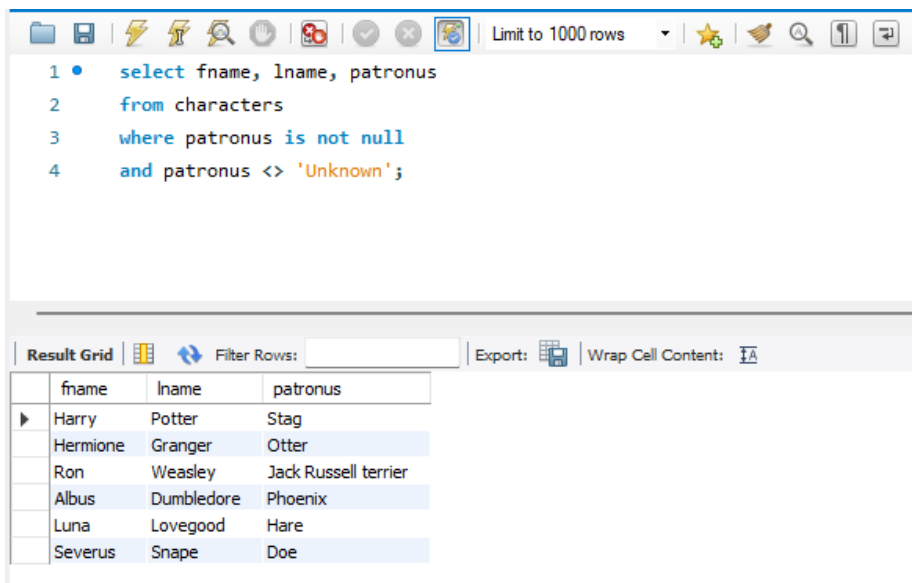


Часть 1

1.



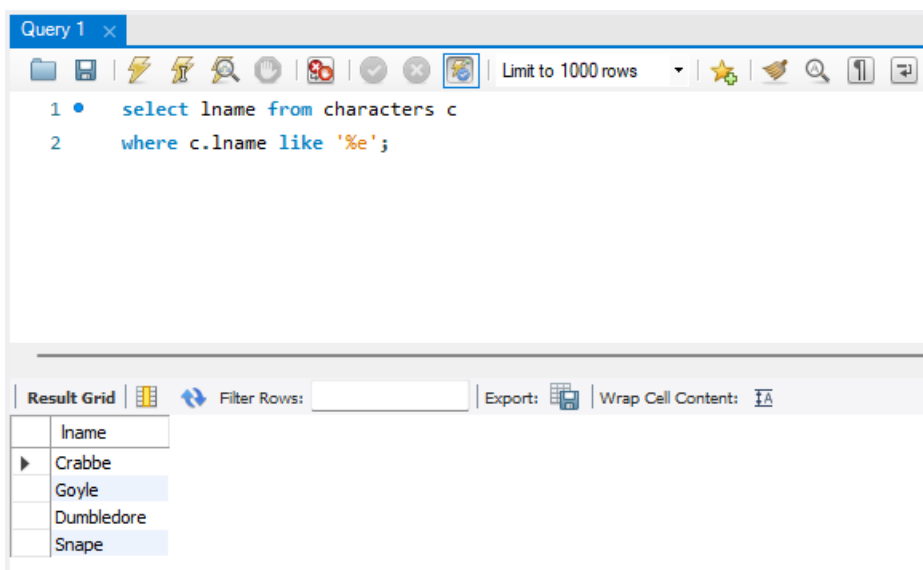
The screenshot shows a SQL query editor with the following query:

```
1 • select fname, lname, patronus
2   from characters
3   where patronus is not null
4   and patronus <> 'Unknown';
```

Below the query editor is a "Result Grid" showing the results of the query. The grid has three columns: fname, lname, and patronus. The results are as follows:

	fname	lname	patronus
▶	Harry	Potter	Stag
	Hermione	Granger	Otter
	Ron	Weasley	Jack Russell terrier
	Albus	Dumbledore	Phoenix
	Luna	Lovegood	Hare
	Severus	Snape	Doe

2.



The screenshot shows a SQL query editor with the following query:

```
1 • select lname from characters c
2   where c.lname like '%e';
```

Below the query editor is a "Result Grid" showing the results of the query. The grid has one column: lname. The results are as follows:

	lname
▶	Crabbe
	Goyle
	Dumbledore
	Snape

3.

Query 1

Limit to 1000 rows

```
1 • select sum(c.age) as 'Общий возраст' from characters c;
```

Result Grid

Общий возраст
257

4.

Query 1

Limit to 1000 rows

```
1 • select lname, age from characters
2   order by age desc;
```

Result Grid

lname	age
Dumbledore	111
Snape	55
Diggory	14
Potter	11
Granger	11
Weasley	11
Malfoy	11
Crabbe	11
Goyle	11
Lovegood	11
Voldemort	NULL

5.

Query 1

Limit to 1000 rows

```
1 • select fname, age from characters
2   where age between 50 and 100;
```

Result Grid

fname	age
Severus	55

6.

Query 1

```
1 • select distinct age from characters;
2
```

Result Grid

age
11
111
14
55
NULL

7.

Query 1

```
1 • select * from characters
2   where faculty = 'Gryffindor'
3   and age >30;
4
```

Result Grid

char_id	fname	lname	age	faculty	patronus	book_id
7	Albus	Dumbledore	111	Gryffindor	Phoenix	2
NULL	NULL	NULL	NULL	NULL	NULL	NULL

8.

Query 1

```
1 • select distinct faculty from characters
2   limit 3;
3
4
5
```

Result Grid

faculty
Gryffindor
Slytherin
Ravendaw

9.

Query 1 x

Limit to 1000 rows

```
1 • select * from characters
2   where fname like 'H____'
3   or fname like 'L%';
4
5
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: [iA](#)

	char_id	fname	lname	age	faculty	patronus	book_id
▶	1	Harry	Potter	11	Gryffindor	Stag	10
	8	Luna	Lovegood	11	Ravendaw	Hare	2
	11	Lord	Voldemort	NULL	Slytherin	NULL	5
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

10.

Query 1 x

Limit to 1000 rows

```
1 • select avg(age) from characters;
2
3
4
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [iA](#)

	avg(age)
▶	25.7000

11.

Query 1

```

1 • delete from characters
2   where char_id = 11;
3
4 • select * from characters;
5
6
7

```

Result Grid

char_id	fname	lname	age	faculty	patronus	book_id
1	Harry	Potter	11	Gryffindor	Stag	10
2	Hermione	Granger	11	Gryffindor	Otter	9
3	Ron	Weasley	11	Gryffindor	Jack Russell terrier	8
4	Draco	Malfoy	11	Slytherin	NULL	6
5	Vincent	Crabbe	11	Slytherin	NULL	6
6	Gregory	Goyle	11	Slytherin	NULL	1
7	Albus	Dumbledore	111	Gryffindor	Phoenix	2
8	Luna	Lovegood	11	Ravendaw	Hare	2
9	Cedric	Diggory	14	Hufflepuff	Unknown	3
10	Severus	Snape	55	Slytherin	Doe	4
NULL	NULL	NULL	NULL	NULL	NULL	NULL

12.

Query 1

```

1 • select lname from characters
2   where lname like '%a%';
3
4
5
6
7

```

Result Grid

lname
Granger
Weasley
Malfoy
Crabbe
Snape

13.

Query 1 x

Limit to 1000 rows

```

1 • select lname as 'Half-blood prince' from characters
2   where lname = 'Snape';
3
4
5
6
7

```

Result Grid

	Half-blood prince
▶	Snape

14.

Query 1 x

Limit to 1000 rows

```

1 • select char_id, patronus from characters
2   where patronus is not null
3     and patronus <> 'unknown';
4
5
6
7

```

Result Grid

	char_id	patronus
▶	1	Stag
	2	Otter
	3	Jack Russell terrier
	7	Phoenix
	8	Hare
	10	Doe
*	NULL	NULL

15.

Query 1 x

Limit to 1000 rows

```

1 • select fname, lname from characters
2   where lname in ('Crabbe', 'Granger', 'Diggory');
3
4
5
6
7

```

Result Grid

	fname	lname
▶	Hermione	Granger
	Vincent	Crabbe
	Cedric	Diggory

16.

Query 1

Limit to 1000 rows

```

1 • select min(age) from characters;
2
3
4
5
6
7

```

Result Grid

min(age)
11

17.

Query 1

Limit to 1000 rows

```

1 • select fname from characters
2 union
3 select book_name from library;
4
5
6
7

```

Result Grid

fname
Harry
Hermione
Ron
Draco
Vincent
Gregory
Albus
Luna
Cedric
Severus
Hogwarts: A History
Quidditch Through The Ages
The Lockhart Collection
Moste Potente Potions
The Life And Lies Of Albus Dumbledore
Fantastic Beasts And Where To Find Them
The Tales Of Beadle The Bard
Advanced Potion-Making
A History Of Magic
Magical Water Plants Of The Highland Rocks

18.

Query 1 x

Limit to 1000 rows

```

1 • select faculty from characters
2   group by faculty
3   having count(char_id)=1;
4
5
6
7
~

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

faculty
Ravenclaw
Hufflepuff

19.

Query 1 x

Limit to 1000 rows

```

1 • select fname, lname,
2   CASE
3     WHEN faculty = 'Gryffindor' THEN 'Godric'
4     WHEN faculty = 'Slytherin' THEN 'Salazar'
5     WHEN faculty = 'Ravenclaw' THEN 'Rowena'
6     WHEN faculty = 'Hufflepuff' THEN 'Helga'
7     ELSE 'Muggle'
8   END AS Founders
9   from characters
10

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	fname	lname	Founders
▶	Harry	Potter	Godric
	Hermione	Granger	Godric
	Ron	Weasley	Godric
	Draco	Malfoy	Salazar
	Vincent	Crabbe	Salazar
	Gregory	Goyle	Salazar
	Albus	Dumbledore	Godric
	Luna	Lovegood	Rowena
	Cedric	Diggory	Helga
	Severus	Snape	Salazar

20.

Query 1

```

1 • select lname from characters
2   where lname like 'H%'
3   or lname like 'L%'
4   or lname like 'S%';
5
6
7

```

Limit to 1000 rows

Result Grid

	lname
▶	Lovegood
	Snape

Часть 2

1.

Query 1

```

1 • select c.fname,c.lname,l.book_name from library l
2   join characters c
3   on l.book_id=c.book_id;
4
5
6
7
8
9
10

```

Limit to 1000 rows

Result Grid

	fname	lname	book_name
▶	Gregory	Goyle	Hogwarts: A History
	Albus	Dumbledore	Quidditch Through The Ages
	Luna	Lovegood	Quidditch Through The Ages
	Cedric	Diggory	The Lockhart Collection
	Severus	Snape	Moste Potente Potions
	Draco	Malfoy	Fantastic Beasts And Where To Find Them
	Vincent	Crabbe	Fantastic Beasts And Where To Find Them
	Ron	Weasley	Advanced Potion-Making
	Hermione	Granger	A History Of Magic
	Harry	Potter	Magical Water Plants Of The Highland Rocks
	Albus	Dumbledore	Quidditch Through The Ages
	Luna	Lovegood	Quidditch Through The Ages
	Harry	Potter	Magical Water Plants Of The Highland Rocks
	Draco	Malfoy	Fantastic Beasts And Where To Find Them
	Vincent	Crabbe	Fantastic Beasts And Where To Find Them

2.

Query 1

```

1 • select c.fname, c.lname, l.book_name from characters c, library l
2   order by c.fname;
3
4
5
6
7
8
9
10

```

Result Grid

fname	lname	book_name
Albus	Dumbledore	Quidditch Through The Ages
Albus	Dumbledore	Advanced Potion-Making
Albus	Dumbledore	Magical Water Plants Of The Highland Rocks
Albus	Dumbledore	Fantastic Beasts And Where To Find Them
Albus	Dumbledore	The Lockhart Collection
Albus	Dumbledore	The Life And Lies Of Albus Dumbledore
Albus	Dumbledore	Hogwarts: A History
Albus	Dumbledore	The Tales Of Beadle The Bard
Albus	Dumbledore	A History Of Magic
Albus	Dumbledore	Quidditch Through The Ages
Albus	Dumbledore	Moste Potente Potions
Albus	Dumbledore	Fantastic Beasts And Where To Find Them
Albus	Dumbledore	Magical Water Plants Of The Highland Rocks
Cedric	Diggory	Fantastic Beasts And Where To Find Them
Cedric	Diggory	Advanced Potion-Making
Cedric	Diggory	Magical Water Plants Of The Highland Rocks
Cedric	Diggory	Quidditch Through The Ages
Cedric	Diggory	Magical Water Plants Of The Highland Rocks
Cedric	Diggory	Quidditch Through The Ages
Cedric	Diggory	Hogwarts: A History
Cedric	Diggory	Fantastic Beasts And Where To Find Them
Cedric	Diggory	The Lockhart Collection

3.

Query 1

```

1 • select c.patronus, l.book_name from characters c
2   left join library l
3   on l.book_id=c.book_id;
4
5
6
7
8
9
10

```

Result Grid

patronus	book_name
NULL	Hogwarts: A History
Phoenix	Quidditch Through The Ages
Hare	Quidditch Through The Ages
Unknown	The Lockhart Collection
Doe	Moste Potente Potions
NULL	Fantastic Beasts And Where To Find Them
NULL	Fantastic Beasts And Where To Find Them
Jack Russell terrier	Advanced Potion-Making
Otter	A History Of Magic
Stag	Magical Water Plants Of The Highland Rocks
Phoenix	Quidditch Through The Ages
Hare	Quidditch Through The Ages
Stag	Magical Water Plants Of The Highland Rocks
NULL	Fantastic Beasts And Where To Find Them
NULL	Fantastic Beasts And Where To Find Them

4.

Query 1

Limit to 1000 rows

```

1 • select c.fname, c.lname, c.age, l.book_name from characters c
2   join library l
3   on l.book_id=c.book_id
4   where c.age>15;
5
6
7
8
9
10

```

Result Grid

	fname	lname	age	book_name
▶	Albus	Dumbledore	111	Quidditch Through The Ages
	Severus	Snape	55	Moste Potente Potions
	Albus	Dumbledore	111	Quidditch Through The Ages

5.

Query 1

Limit to 1000 rows

```

1 • select c.fname, l.book_name, l.start_date, l.end_date from characters c
2   join library l
3   on l.book_id=c.book_id
4   where c.age<15
5   and c.patronus is null
6   or c.patronus = 'Unknown';
7
8
9
10

```

Result Grid

	fname	book_name	start_date	end_date
▶	Gregory	Hogwarts: A History	2010-10-20	2020-10-20
	Cedric	The Lockhart Collection	2015-12-20	2030-12-20
	Draco	Fantastic Beasts And Where To Find Them	2010-10-20	2020-10-20
	Vincent	Fantastic Beasts And Where To Find Them	2010-10-20	2020-10-20
	Draco	Fantastic Beasts And Where To Find Them	2006-06-20	2010-00-20
	Vincent	Fantastic Beasts And Where To Find Them	2006-06-20	2010-00-20

6.

Query 1

```
1 • select count(book_name) from library
2   where end_date >
3   (
4     select l.end_date from characters c
5     join library l
6     on l.book_id=c.book_id
7     where c.lname = 'Granger');
8
9
10
```

Result Grid

count(book_name)
2

7.

Query 1

```
1 • select patronus from characters
2   where age >
3   (
4     select age from characters
5     where patronus = 'Unknown');
6
7
8
9
10
```

Result Grid

patronus
Phoenix
Doe