

1. Выведите имя, фамилию персонажей и название книги, которая на них числится

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

```
1 use hogswards;
2 SELECT * FROM characters;
3 SELECT * FROM library;
4 select characters.fname, characters.lname, library.book_name from characters inner join library on characters.char_id=library.char_id;
```

The Result Grid displays the following data:

fname	lname	book_name
Harry	Potter	Magical Water Plants Of The Highland Rocks
Hermione	Granger	A History Of Magic
Ron	Weasley	Advanced Poton-Making
Draco	Malfoy	Fantastic Beasts And Where To Find Them
Vincent	Crabbe	Fantastic Beasts And Where To Find Them
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

The Action Output pane shows the execution of the query, indicating that 13 rows were returned.

2. Выведите имя, фамилию персонажей и название книги, вне зависимости от того, есть ли у них книги или нет

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

```
1 use hogswards;
2 SELECT * FROM characters;
3 SELECT * FROM library;
4 select characters.fname, characters.lname, library.book_name from characters right join library on characters.char_id=library.char_id;
```

The Result Grid displays the following data:

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

The Action Output pane shows the execution of the query, indicating that 13 rows were returned.

3. Выведите название книги и имя патронуса, вне зависимости от того, есть ли информация о держателе книги в таблице или нет

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

```
1 use hogswards;
2 SELECT * FROM characters;
3 SELECT * FROM library;
4 select library.book_name, characters.patronus from library right join characters on characters.char_id=library.char_id;
```

The Result Grid displays the following data:

book_name	patronus
Magical Water Plants Of The Highland Rocks	Stag
A History Of Magic	Otter
Advanced Poton-Making	Jack Russell terrier
Fantastic Beasts And Where To Find Them	None
Fantastic Beasts And Where To Find Them	None
Hogwarts: A History	None
Quidditch Through The Ages	Phoenix
Quidditch Through The Ages	Hare
The Lockhart Collection	Unknown
Moste Potente Potions	Doe

The Output tab shows the execution log with the following messages:

#	Time	Action	Message	Duration / Fetch
20	23:58:44	select characters.fname, characters lname, library.book_name from characters inner join library on characters.c...	10 row(s) returned	0.000 sec / 0.000 sec
21	00:10:51	select library.book_name, characters.patronus from characters right join library on characters.char_id=library.ch...	13 row(s) returned	0.000 sec / 0.000 sec
22	00:11:27	SELECT * FROM characters LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
23	00:14:03	select library.book_name, characters.patronus from characters left join library on characters.char_id=library.char...	10 row(s) returned	0.000 sec / 0.000 sec
24	00:14:29	select library.book_name, characters.patronus from characters right join library on characters.char_id=library.ch...	13 row(s) returned	0.016 sec / 0.000 sec
25	00:19:48	select library.book_name, characters.patronus from library right join characters on characters.char_id=library.ch...	10 row(s) returned	0.000 sec / 0.000 sec

4. Выведите имя, фамилию, возраст персонажей и название книги, которая на них числится, при условии, что все владельцы книг должны быть старше 15 лет

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

```
1 use hogswards;
2 SELECT * FROM characters;
3 SELECT * FROM library;
4 select characters.fname, characters.lname, characters.age, library.book_name from characters inner join library on characters.char_id=library.char_id where age>15;
```

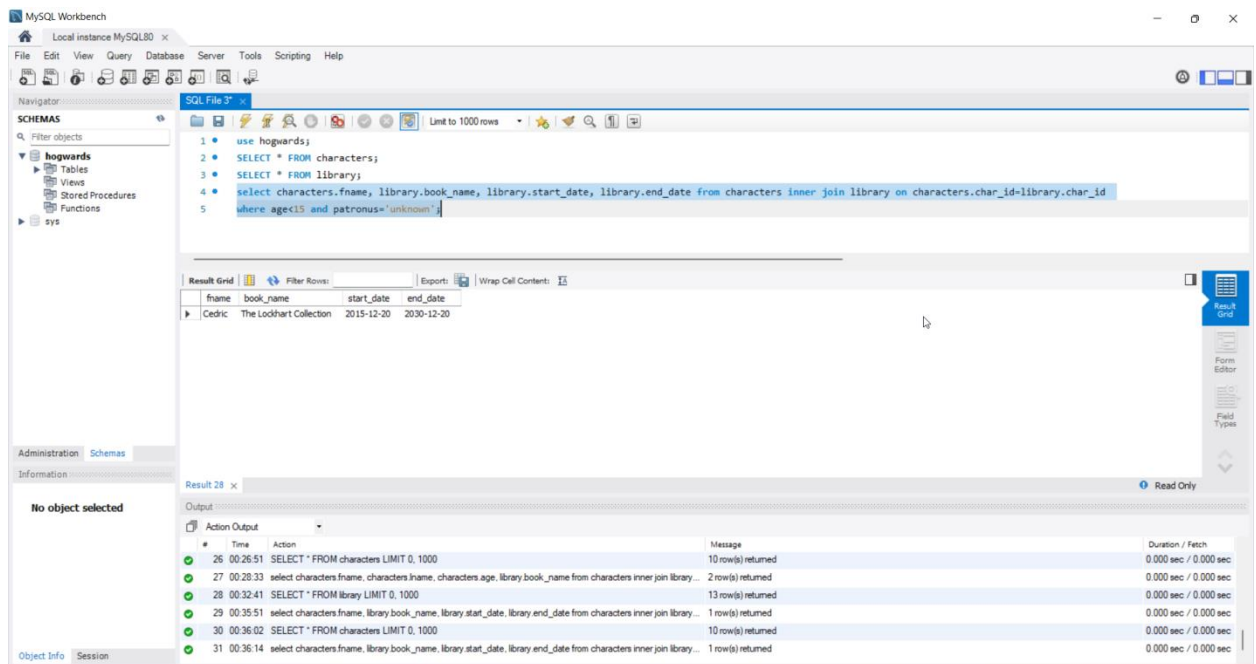
The Result Grid displays the following data:

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

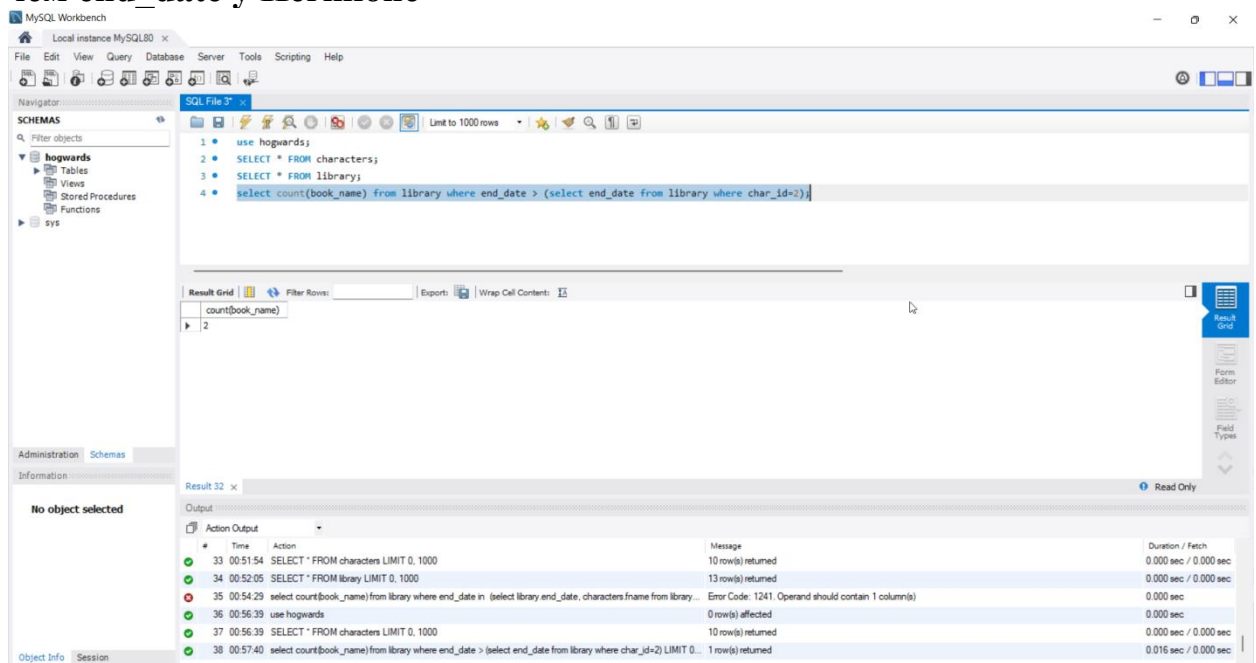
The Output tab shows the execution log with the following messages:

#	Time	Action	Message	Duration / Fetch
22	00:11:27	SELECT * FROM characters LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
23	00:14:03	select library.book_name, characters.patronus from characters left join library on characters.char_id=library.char...	10 row(s) returned	0.000 sec / 0.000 sec
24	00:14:29	select library.book_name, characters.patronus from characters right join library on characters.char_id=library.ch...	13 row(s) returned	0.016 sec / 0.000 sec
25	00:19:48	select library.book_name, characters.patronus from library right join characters on characters.char_id=library.ch...	10 row(s) returned	0.000 sec / 0.000 sec
26	00:26:51	SELECT * FROM characters LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
27	00:28:33	select characters.fname, characters.lname, characters.age, library.book_name from characters inner join library...	2 row(s) returned	0.000 sec / 0.000 sec

5. Выведите имя персонажа, название книги, дату выдачи и дату завершения, при условии, что он младше 15 лет и его патронус неизвестен



6. Используя вложенный запрос количество книг, у которых end_date больше, чем end_date у Hermione



7. С помощью вложенного запроса выведите имена всех патронусов, у которых владельцы старше возраста персонажа, у которого патронус Unknown

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

hogwarts

Tables

Views

Stored Procedures

Functions

sys

SQL File 3'

Limit to 1000 rows

```
1 use hogwarts;
2 SELECT * FROM characters;
3 SELECT * FROM library;
4 select patronus from characters where age > (select age from characters where patronus='unknown');
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

patronus

Phoenix

Doe

Administration Schemas

Information

No object selected

characters 33

Read Only

Output

#	Time	Action	Message	Duration / Fetch
34	00:52:05	SELECT * FROM library LIMIT 0, 1000	13 row(s) returned	0.000 sec / 0.000 sec
35	00:54:29	select count(book_name) from library where end_date in (select library.end_date, characters.fname from library...	Error Code: 1241. Operand should contain 1 column(s)	0.000 sec
36	00:56:39	use hogwarts	0 row(s) affected	0.000 sec
37	00:56:39	SELECT * FROM characters LIMIT 0, 1000	10 row(s) returned	0.000 sec / 0.000 sec
38	00:57:40	select count(book_name) from library where end_date > (select end_date from library where char_id=2) LIMIT 0...	1 row(s) returned	0.016 sec / 0.000 sec
39	01:01:15	select patronus from characters where age > (select age from characters where patronus='unknown') LIMIT 0, ...	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session