

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

Query 1

```
1 SELECT * FROM characters;
2 SELECT * FROM library;
3
4 SELECT characters.fname, characters.lname, library.book_name
5 FROM characters
6 INNER JOIN library
7 ON characters.char_id = library.char_id ;
```

Result Grid

fname	lname	book_name
Harry	Potter	Magical Water Plants Of The Highland Rocks
Hermione	Granger	A History Of Magic
Ron	Weasley	Advanced Potion-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

Result 68

Action Output

	Time	Action	Response	Duration / Fetch Time
74	22:33:41	SELECT characters.fname, characters.lname, library.book_name FROM characters LEFT JOIN library ON characters...	10 row(s) returned	0.00044 sec / 0.000...
75	22:33:54	SELECT characters.fname, characters.lname, library.book_name FROM characters INNER JOIN library ON character...	10 row(s) returned	0.00046 sec / 0.000...

Query Completed

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

Query 1

```
1 SELECT * FROM characters;
2 SELECT * FROM library;
3
4 SELECT characters.fname, characters.lname, library.book_name
5 FROM characters
6 LEFT JOIN library
7 ON characters.char_id = library.char_id ;
```

Result Grid

fname	lname	book_name
Harry	Potter	Magical Water Plants Of The Highland Rocks
Hermione	Granger	A History Of Magic
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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

Result 75

Action Output

	Time	Action	Response	Duration / Fetch Time
81	22:36:28	SELECT characters.fname, characters.lname, library.book_name FROM characters LEFT JOIN library ON characters...	15 row(s) returned	0.0048 sec / 0.00001...
82	22:36:43	SELECT characters.fname, characters.lname, library.book_name FROM characters LEFT JOIN library ON characters...	10 row(s) returned	0.00047 sec / 0.0000...

Query Completed

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

The screenshot shows a database query interface with a SQL query and its results. The query is a RIGHT JOIN between the 'characters' and 'library' tables on the 'char\_id' column. The results are displayed in a grid with two columns: 'patronus' and 'book\_name'.

```
1 SELECT * FROM characters;
2 SELECT * FROM library;
3
4 SELECT characters.patronus, library.book_name
5 FROM characters
6 RIGHT JOIN library
7 ON characters.char_id = library.char_id ;
```

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

Result 76

Action Output

Time	Action	Response	Duration / Fetch Time
22:36:43	SELECT characters.fname, characters.lname, library.book_name FROM characters LEFT JOIN library ON characters...	10 row(s) returned	0.00047 sec / 0.0000...
22:37:55	SELECT characters.patronus, library.book_name FROM characters RIGHT JOIN library ON characters.char_id = libr...	13 row(s) returned	0.00040 sec / 0.000...

Query Completed

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 a database query interface with a SQL query and its results. The query is an INNER JOIN between the 'characters' and 'library' tables on the 'char\_id' column, with a WHERE clause filtering for characters older than 15. The results are displayed in a grid with four columns: 'fname', 'lname', 'age', and 'book\_name'.

```
1 SELECT * FROM characters;
2 SELECT * FROM library;
3
4 SELECT characters.fname, characters.lname, characters.age, library.book_name
5 FROM characters
6 INNER JOIN library
7 ON characters.char_id = library.char_id
8 WHERE characters.age > 15;
```

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

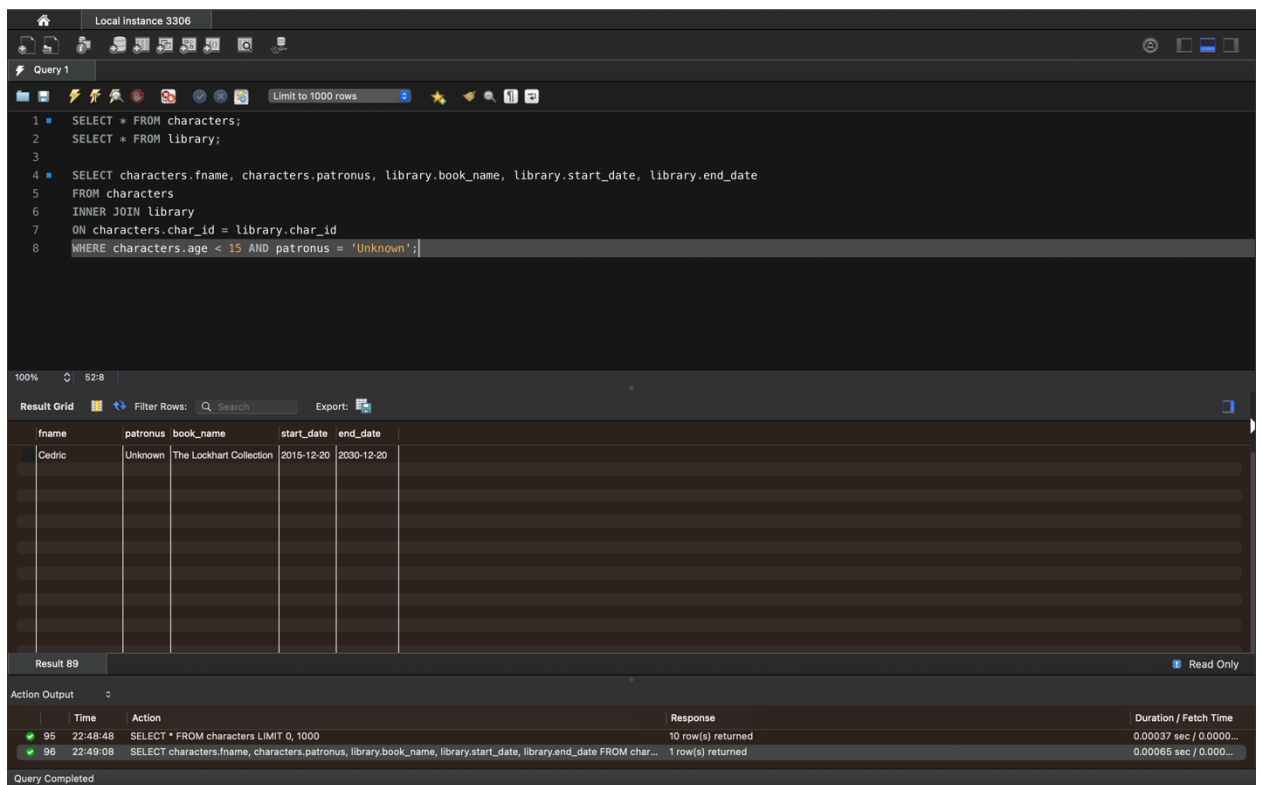
Result 84

Action Output

Time	Action	Response	Duration / Fetch Time
22:44:08	SELECT characters.fname, characters.lname, characters.age, library.book_name, library.book_id FROM characters...	2 row(s) returned	0.00052 sec / 0.0000...
22:44:45	SELECT characters.fname, characters.lname, characters.age, library.book_name FROM characters INNER JOIN libr...	2 row(s) returned	0.00060 sec / 0.000...

Query Completed

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



The screenshot shows the SQL Developer interface with a query window titled 'Query 1'. The query is as follows:

```
1 SELECT * FROM characters;  
2 SELECT * FROM library;  
3  
4 SELECT characters.fname, characters.patronus, library.book_name, library.start_date, library.end_date  
5 FROM characters  
6 INNER JOIN library  
7 ON characters.char_id = library.char_id  
8 WHERE characters.age < 15 AND patronus = 'Unknown';
```

The 'Result Grid' shows the following data:

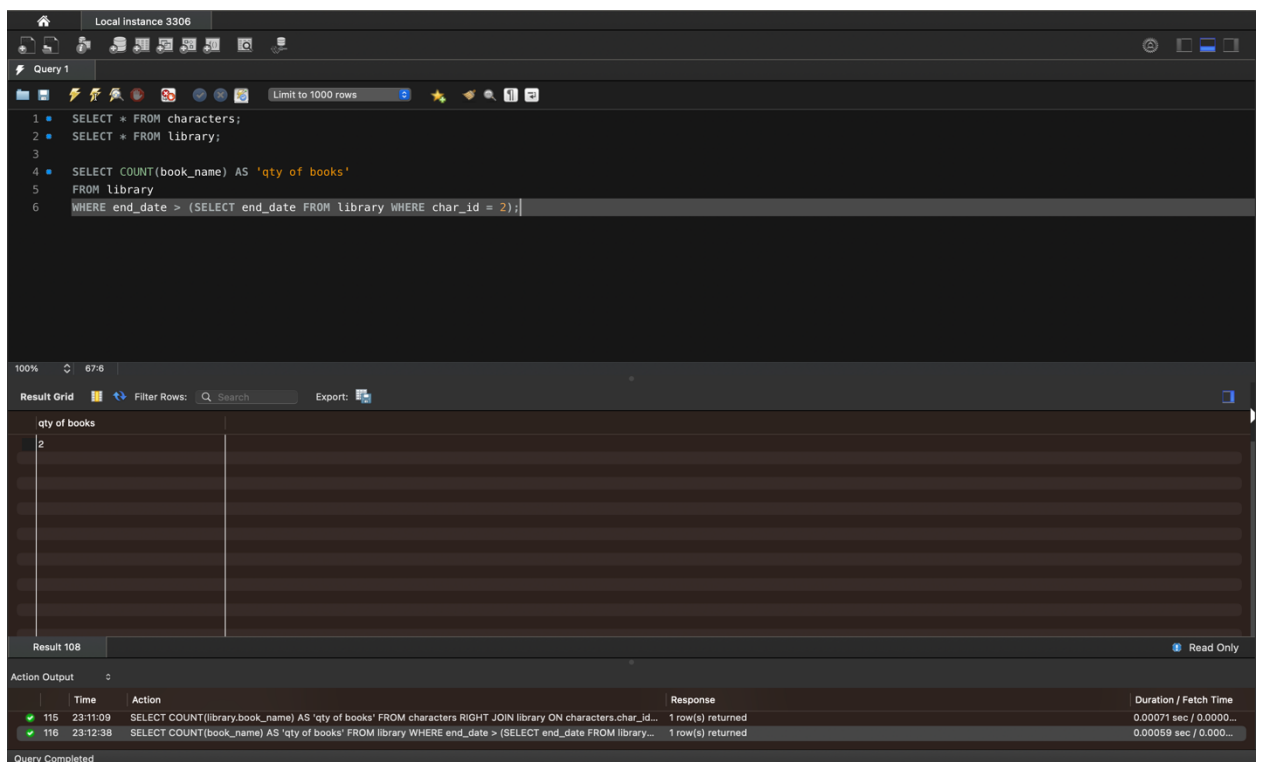
fname	patronus	book_name	start_date	end_date
Codic	Unknown	The Lockhart Collection	2015-12-20	2030-12-20

The 'Action Output' pane shows the execution details:

Time	Action	Response	Duration / Fetch Time
95 22:48:48	SELECT * FROM characters LIMIT 0, 1000	10 row(s) returned	0.00037 sec / 0.0000...
96 22:49:08	SELECT characters.fname, characters.patronus, library.book_name, library.start_date, library.end_date FROM char...	1 row(s) returned	0.00065 sec / 0.000...

Query Completed

6. Используя вложенный запрос выведите количество книг, у которых end\_date больше, чем end\_date у Hermione



The screenshot shows the SQL Developer interface with a query window titled 'Query 1'. The query is as follows:

```
1 SELECT * FROM characters;  
2 SELECT * FROM library;  
3  
4 SELECT COUNT(book_name) AS 'qty of books'  
5 FROM library  
6 WHERE end_date > (SELECT end_date FROM library WHERE char_id = 2);
```

The 'Result Grid' shows the following data:

qty of books
2

The 'Action Output' pane shows the execution details:

Time	Action	Response	Duration / Fetch Time
115 23:11:09	SELECT COUNT(library.book_name) AS 'qty of books' FROM characters RIGHT JOIN library ON characters.char_id...	1 row(s) returned	0.00071 sec / 0.0000...
116 23:12:38	SELECT COUNT(book_name) AS 'qty of books' FROM library WHERE end_date > (SELECT end_date FROM library...	1 row(s) returned	0.00059 sec / 0.000...

Query Completed

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

The screenshot shows a PostgreSQL query editor interface. The query is as follows:

```
1 SELECT * FROM characters;
2 SELECT * FROM library;
3
4 SELECT patronus
5 FROM characters
6 WHERE age > (SELECT age FROM characters WHERE patronus= 'Unknown');
```

The results are displayed in a grid format. The first column is labeled 'patronus' and contains the names 'Phoenix' and 'Doe'. The second column is empty. The total number of rows is 112.

Below the grid, the 'Action Output' section shows the execution details:

	Time	Action	Response	Duration / Fetch Time
✓ 119	23:14:34	SELECT * FROM characters LIMIT 0, 1000	10 row(s) returned	0.00037 sec / 0.0000...
✓ 120	23:14:40	SELECT patronus FROM characters WHERE age > (SELECT age FROM characters WHERE patronus= 'Unknown') LI...	2 row(s) returned	0.00060 sec / 0.000...

Query Completed