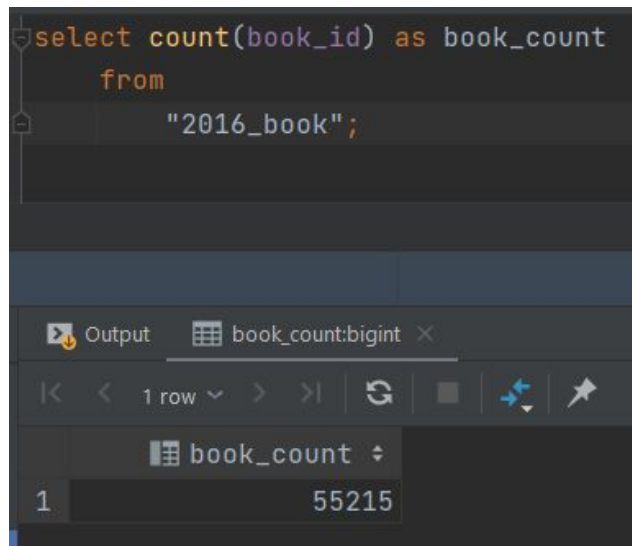


Query report

Queries and their execution is outlined below:

- 1) query that counts all the comic books, the * operator is not used since we do not have null values

```
select count(book_id) as book_count
from
    "2016_book";
```

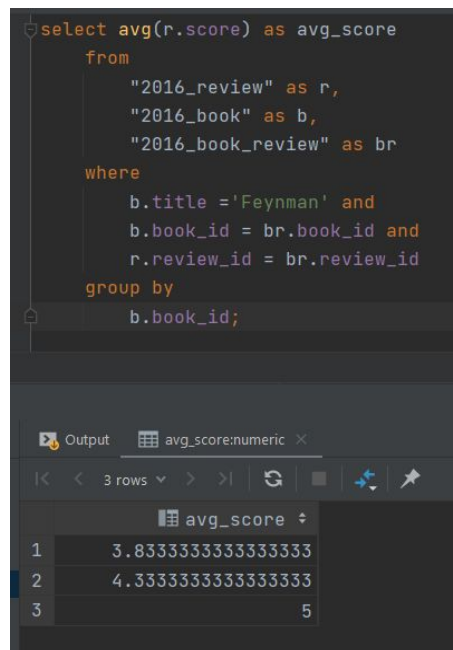


The screenshot shows a SQL query execution interface. The query is: `select count(book_id) as book_count from "2016_book";`. The output is displayed in a table with one row and one column, showing the count of 55215.

book_count
55215

- 2) query that returns the average review score for the comic book with title "Feynman"

```
select avg(r.score) as avg_score
from
    "2016_review" as r,
    "2016_book" as b,
    "2016_book_review" as br
where
    b.title = 'Feynman' and
    b.book_id = br.book_id and
    r.review_id = br.review_id
group by
    b.book_id;
```



The screenshot shows a SQL query execution interface. The query is: `select avg(r.score) as avg_score from "2016_review" as r, "2016_book" as b, "2016_book_review" as br where b.title = 'Feynman' and b.book_id = br.book_id and r.review_id = br.review_id group by b.book_id;`. The output is displayed in a table with three rows and one column, showing the average review scores for three different books with the title 'Feynman'.

avg_score
3.8333333333333333
4.3333333333333333
5

Peculiarly enough, 3 books with different isbns have the same title.

- 3) query that returns the ISBNs and titles for all books authored by “Alan Moore” (in any role)

```
select b.isbn, b.title
from
    "2016_author" as a,
    "2016_book" as b,
    "2016_book_author" as ba
where
    a.name = 'Alan Moore' and
    b.book_id = ba.book_id and
    a.author_id = ba.author_id;
```

Output comic_books.public.2016_book X

358 rows

	isbn	title
1	1845767721	Batman: The Killing Joke
2	1848563396	Absolute V for Vendetta
3	1840232021	Saga Of The Swamp Thing
4	8865431792	La Lega degli Straordinari Gentlemen: B...
5	8685489482	V Kao Vendeta
6	9515784875	Helvetistä : osa 5 (Helvetistä #5)
7	8467476044	Batman: The killing Joke Edizione Assol...
8	0930289455	Batman: The Killing Joke
9	1401202853	Tom Strong, Book 3
10	1401228429	Absolute Promethea, Book Two
11	0930289234	Watchmen
12	9515784646	Helvetistä : osa 4 (Helvetistä #4)
13	160309329X	The League of Extraordinary Gentlemen (...)

- 4) transaction that modifies a user's order by removing a previous order with a new one of the same user. The transaction uses nested queries as follows:
- select a *user_id* that has an active order
 - retrieve its last *order_id*
 - delete the tuple from *book_order* table where the *order_id* matches the one from b)
 - delete the tuple from *order* table where the *order_id* matches the one from b) and keep the *user_id*, *billing_address_id*, *shipping_address_id*
 - insert into the *order* table a tuple using the data from d) and using the now() function for the *placement* field and keep the *order_id*
 - insert into the *book_order* table a tuple using the *order_id* from e) along with the first *book_id* returned from the *book* table