Trường Đại Học Quốc Tế - ĐHQG TP.HCM

LAB REPORT

Course: Principles Of Database Management LAB 6 & 7

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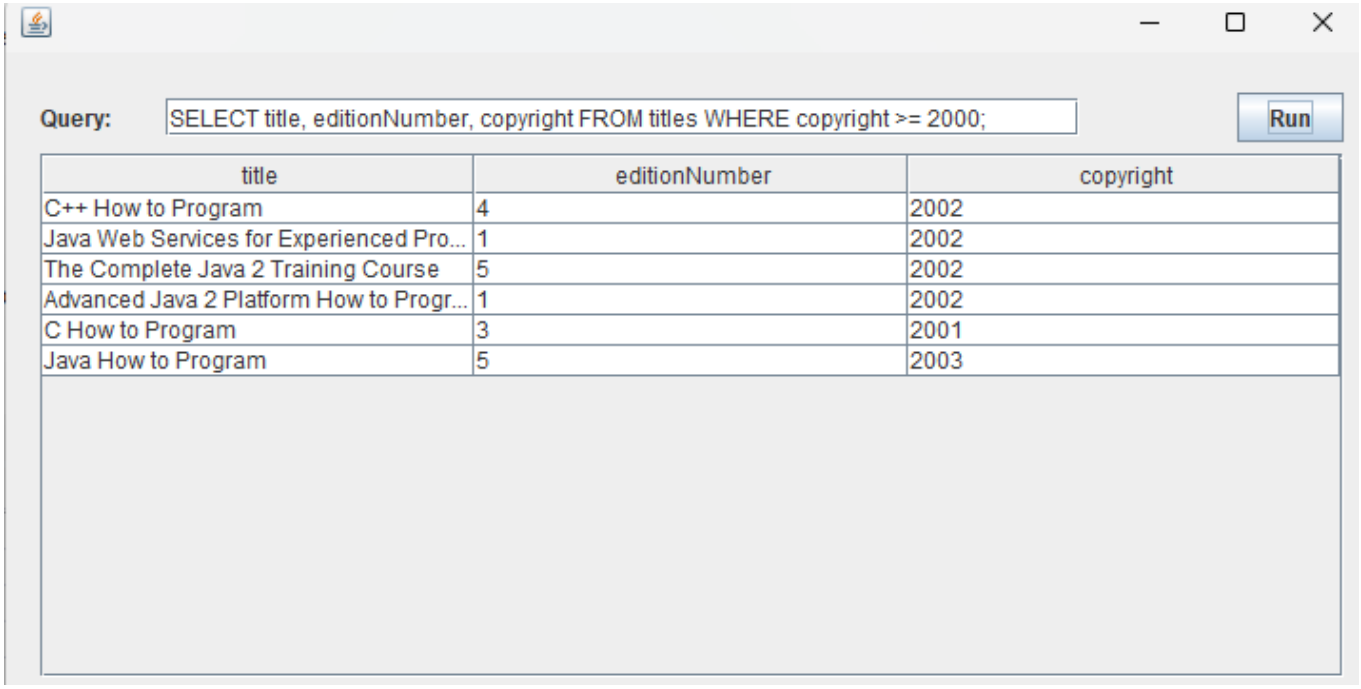
1. **Query**: Finds the title, editionNumber, and copyright of all titles with copyright after 2000.

   SQL:

```sql
SELECT
  title,
  editionNumber,
  copyright
FROM titles
WHERE copyright >= 2000;
GO
```

   Result set:



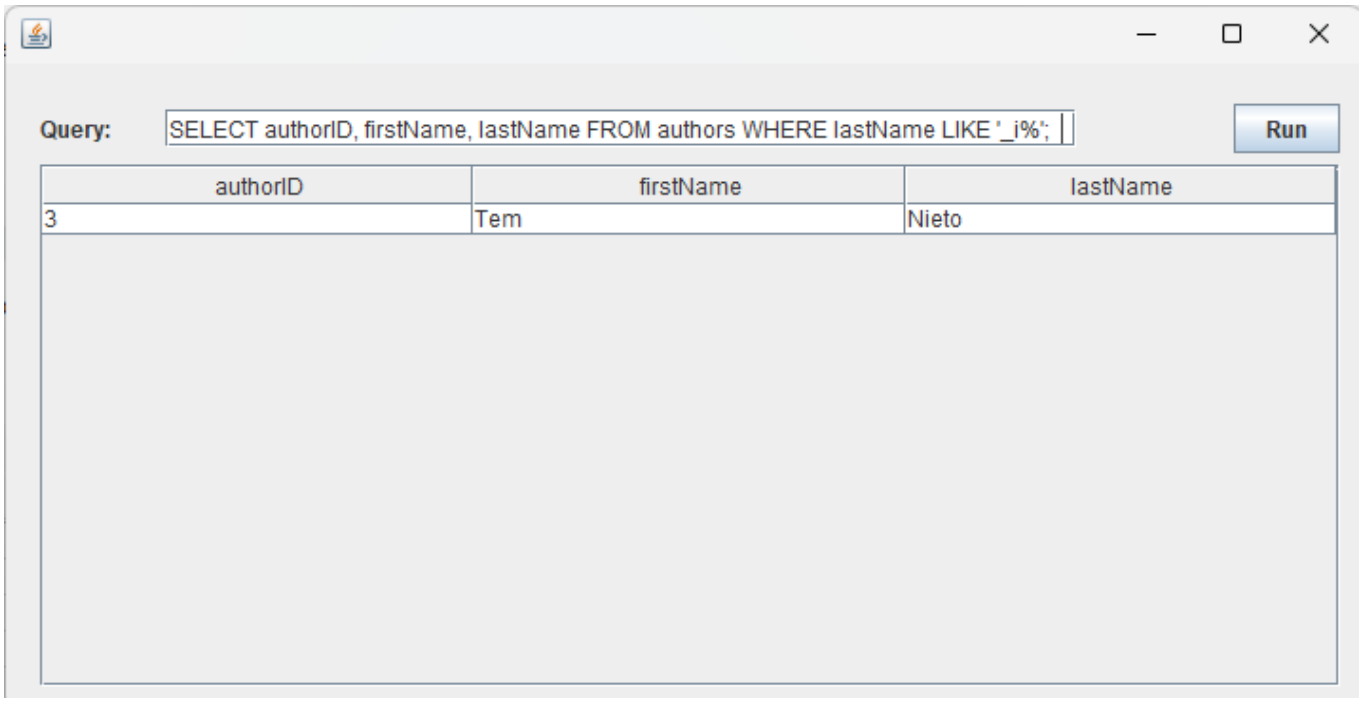
title	editionNumber	copyright
C++ How to Program	4	2002
Java Web Services for Experienced Pro...	1	2002
The Complete Java 2 Training Course	5	2002
Advanced Java 2 Platform How to Progr...	1	2002
C How to Program	3	2001
Java How to Program	5	2003

2. **Query**: Finds authorID, firstName, and lastName from the authors whose last name contains I as the second letter.

   SQL:

```sql
SELECT
  authorID,
  firstName,
  lastName
FROM authors
WHERE lastName LIKE '_i%';
GO
```

Result set:

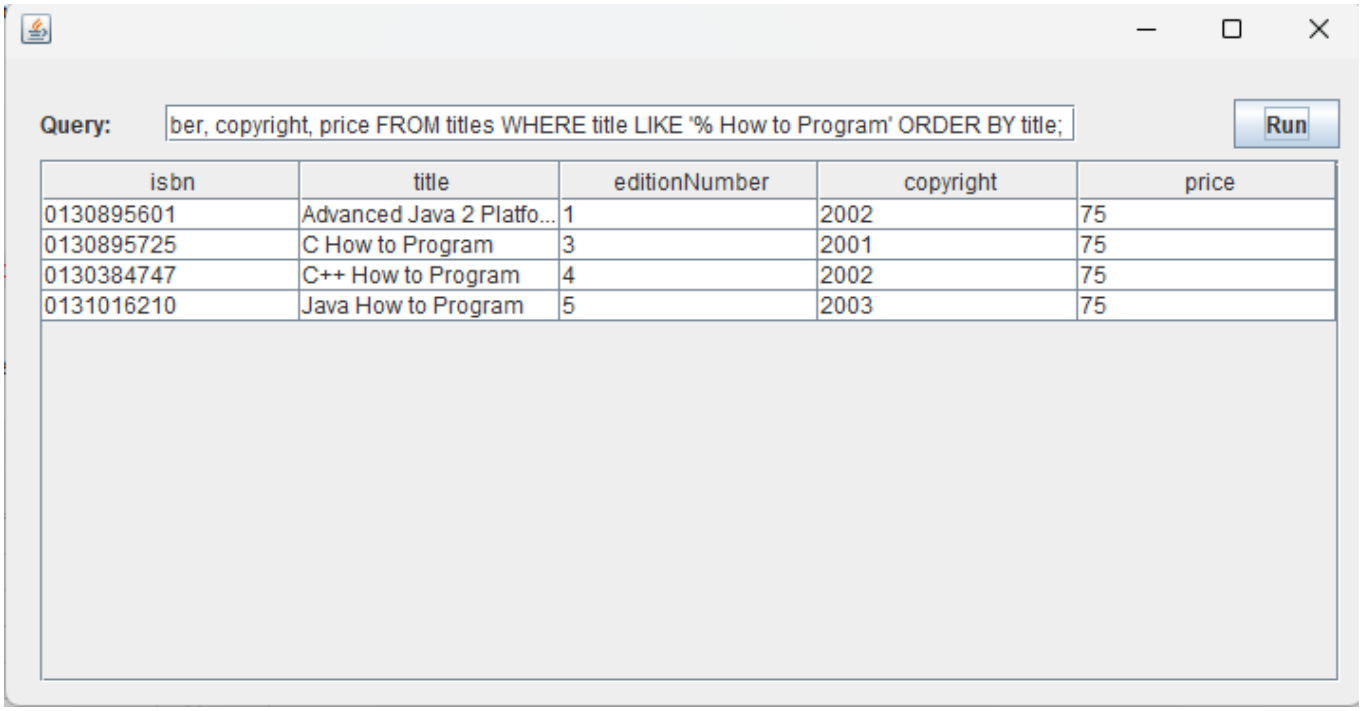


3. **Query**: Finds isbn, title, editionNumber, copyright, and price of titles whose titles end with "how to program" in ascending order by title.

   SQL:

```
SELECT
  isbn,
  title,
  editionNumber,
  copyright,
  price
FROM titles
WHERE title LIKE '% How to Program'
ORDER BY title;
GO
```

   Result set:



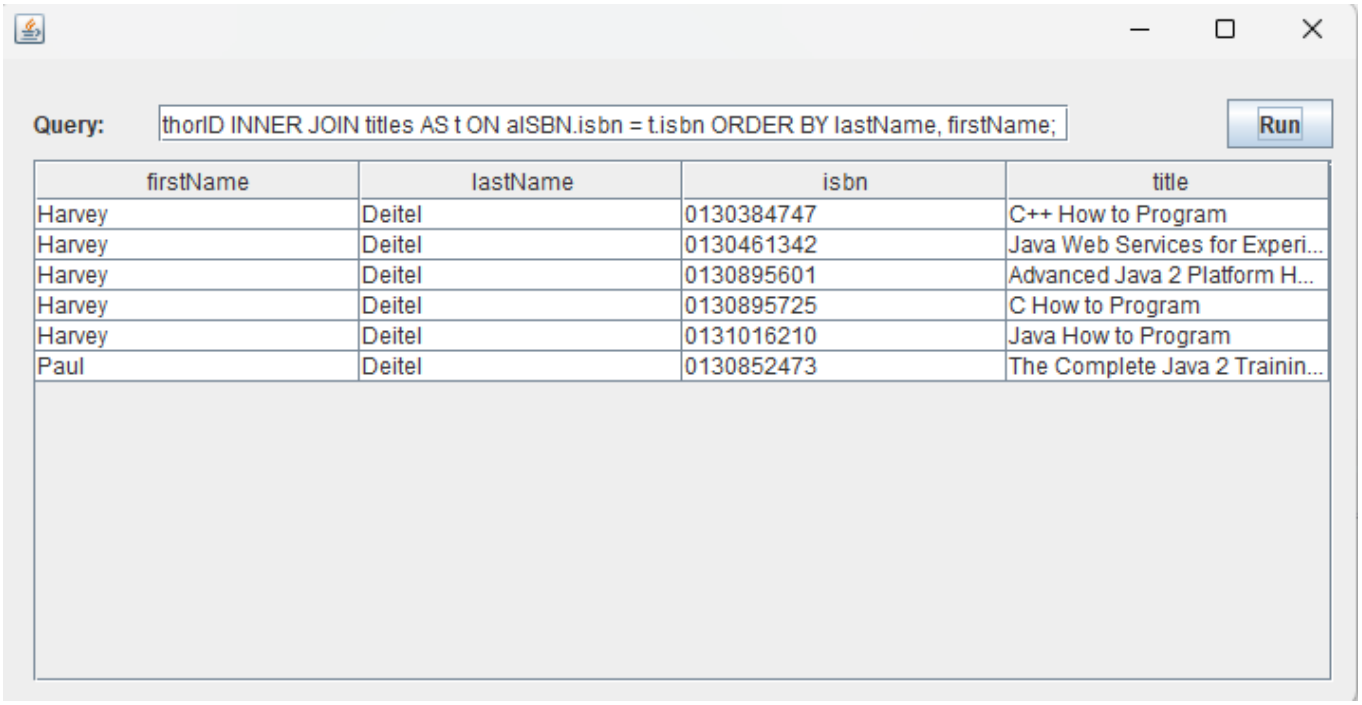
isbn	title	editionNumber	copyright	price
0130895601	Advanced Java 2 Platfo...	1	2002	75
0130895725	C How to Program	3	2001	75
0130384747	C++ How to Program	4	2002	75
0131016210	Java How to Program	5	2003	75

4. **Query**: Finds firstName, lastName, and isbn for the authors and the books they have written in ascending order by lastName and firstName.

   SQL:

```
SELECT
  firstName,
  lastName,
  t.isbn,
  title
FROM authors AS a INNER JOIN authorISBN AS aISBN
ON a.authorID = aISBN.authorID
INNER JOIN titles AS t
ON aISBN.isbn = t.isbn
ORDER BY lastName, firstName;
GO
```

   Result set:



5. **Query**: How many books were copyright in 2001.

   SQL:

```
SELECT COUNT(copyright) AS num_of_copyright
FROM titles
WHERE copyright = 2001;
GO
```

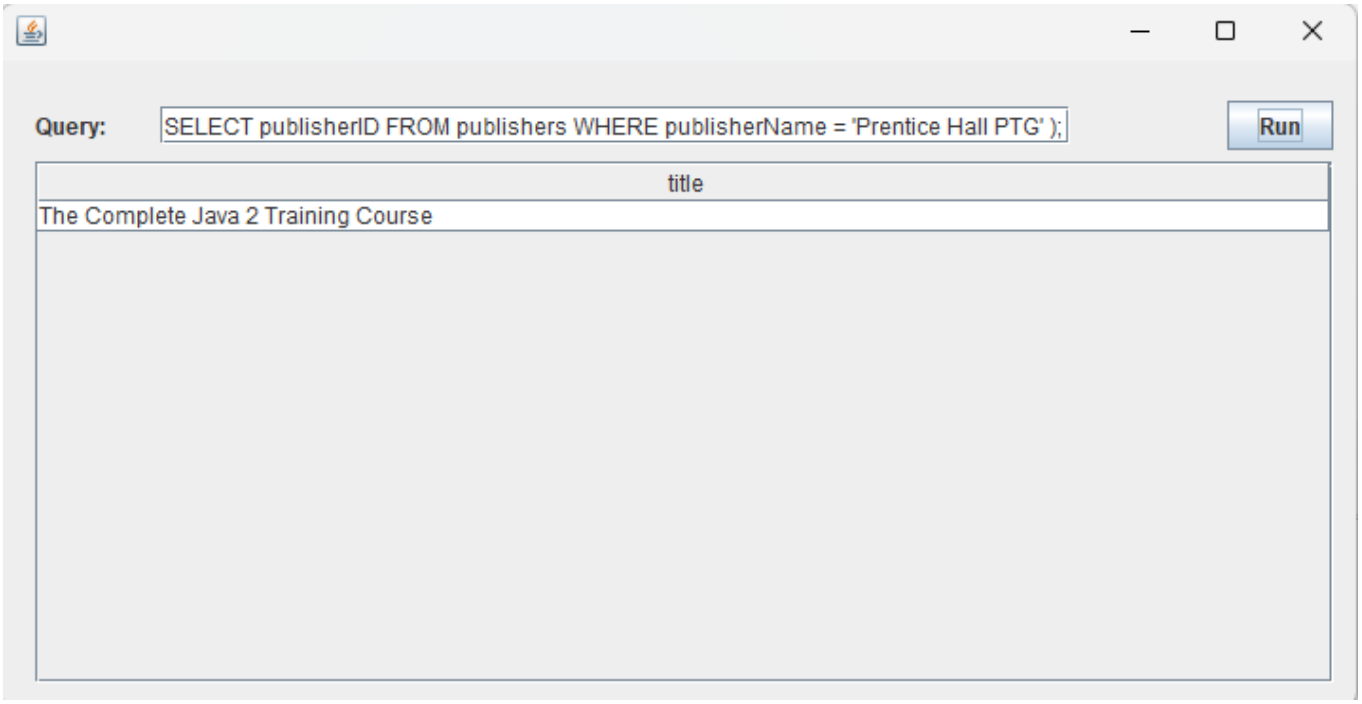
   Result set:

6. **Query**: Finds the name of books which have. published by Prentice Hall PTG.

   SQL:

```
SELECT title
FROM titles
WHERE publisherID IN (
  SELECT publisherID
  FROM publishers
  WHERE publisherName = 'Prentice Hall PTG'
  );
GO
```

   Result set:

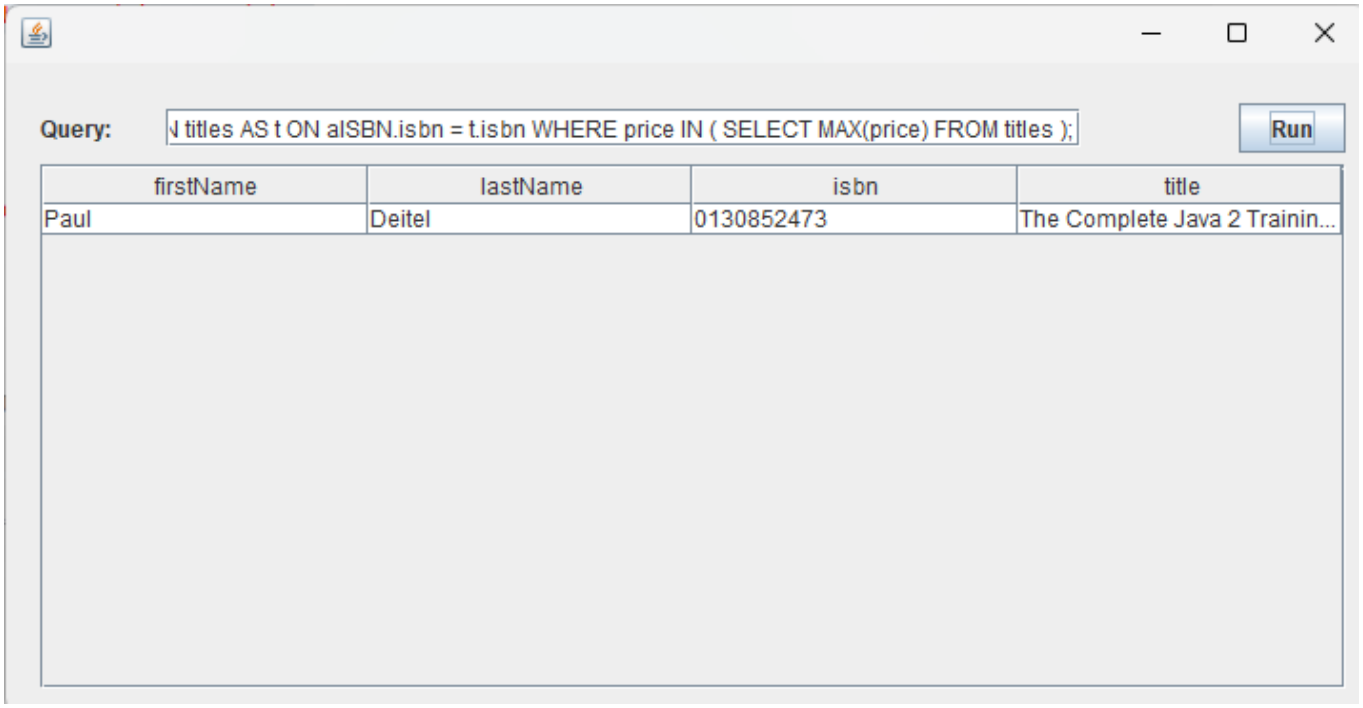


7. **Query**: Finds the author names who've the books with the highest price.

   SQL:

```sql
SELECT
  firstName,
  lastName,
  t.isbn,
  title
FROM authors AS a INNER JOIN authorISBN AS aISBN
ON a.authorID = aISBN.authorID
INNER JOIN titles AS t
ON aISBN.isbn = t.isbn
WHERE price IN (
  SELECT MAX(price)
  FROM titles
  );
GO
```

   Result set:

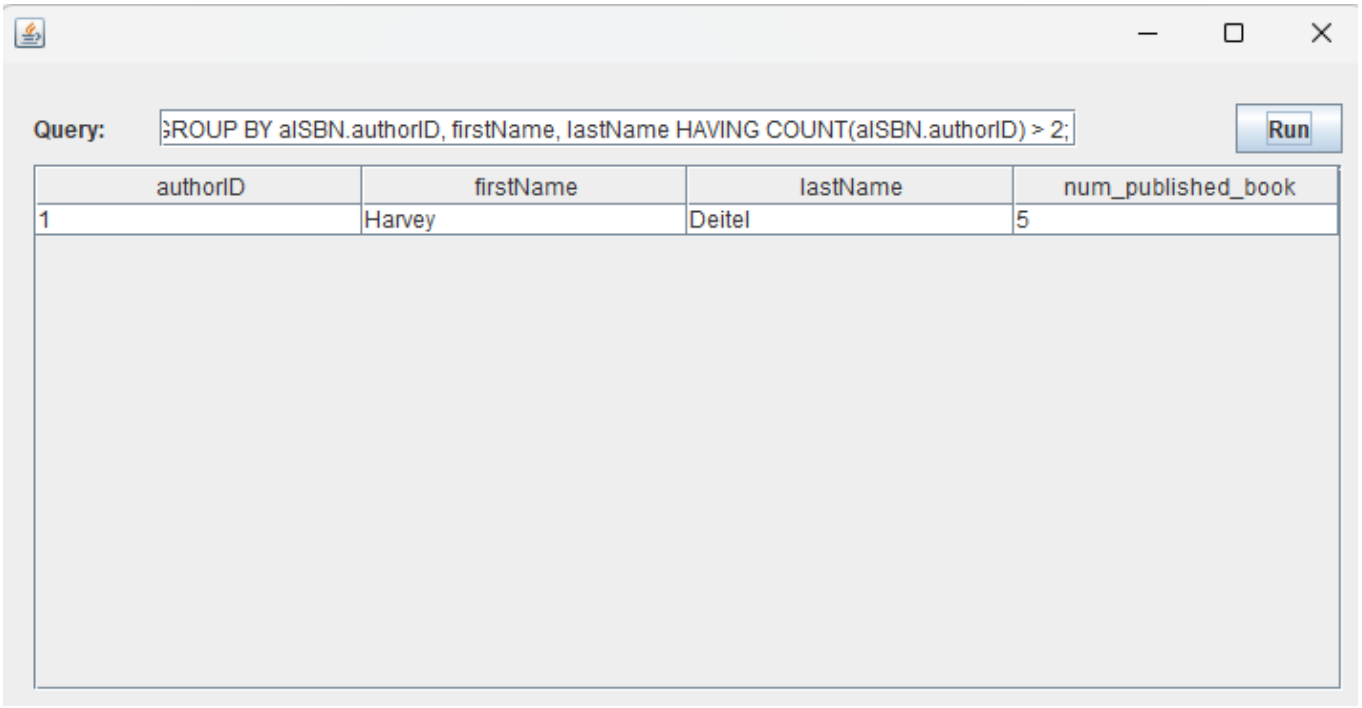


8. **Query**: Finds name of authors who've published more than 2 books.

   SQL:

```
SELECT
  aISBN.authorID,
  firstName,
  lastName,
  COUNT(aISBN.authorID) AS num_published_book
FROM authors AS a INNER JOIN authorISBN AS aISBN
ON a.authorID = aISBN.authorID
GROUP BY aISBN.authorID, firstName, lastName
HAVING COUNT(aISBN.authorID) > 2;
GO
```

   Result set:



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