

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:

```
1 SELECT
2     title,
3     editionNumber,
4     copyright
5 FROM titles
6 WHERE copyright >= 2000;
7 GO
```

Result set:

The screenshot shows a database query execution window. At the top, there is a text box containing the query: `SELECT title, editionNumber, copyright FROM titles WHERE copyright >= 2000;` and a **Run** button. Below the text box is a table with three columns: **title**, **editionNumber**, and **copyright**. The table contains six rows of data.

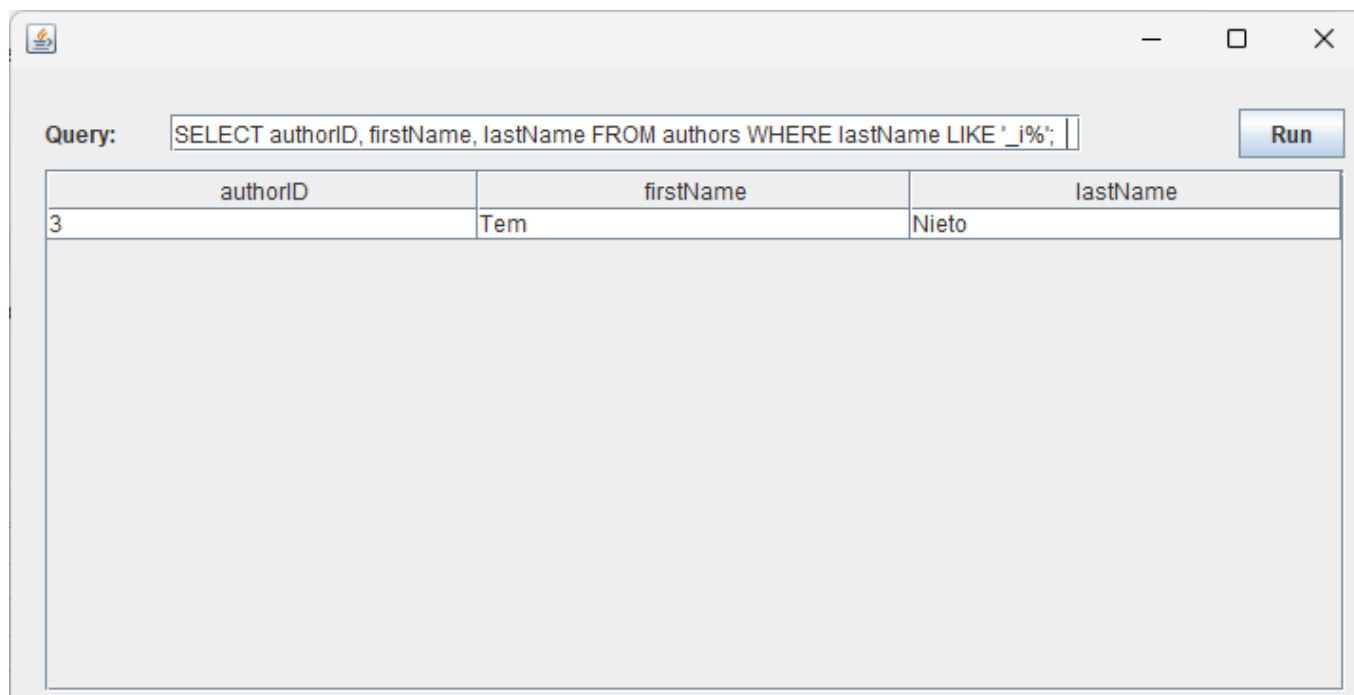
title	editionNumber	copyright
C++ How to Program	4	2002
Java Web Services for Experienced Pro...	1	2002
The Complete Java 2 Training Course	5	2002
Advanced Java 2 Platform How to Progr...	1	2002
C How to Program	3	2001
Java How to Program	5	2003

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

SQL:

```
1 SELECT
2     authorID,
3     firstName,
4     lastName
5 FROM authors
6 WHERE lastName LIKE '_i%';
7 GO
```

Result set:



The screenshot shows a database query window with a query editor and a result set table. The query editor contains the following SQL query: `SELECT authorID, firstName, lastName FROM authors WHERE lastName LIKE '_j%';`. A **Run** button is located to the right of the query editor. The result set table has three columns: **authorID**, **firstName**, and **lastName**. The first row of data shows **authorID** as 3, **firstName** as Tem, and **lastName** as Nieto.

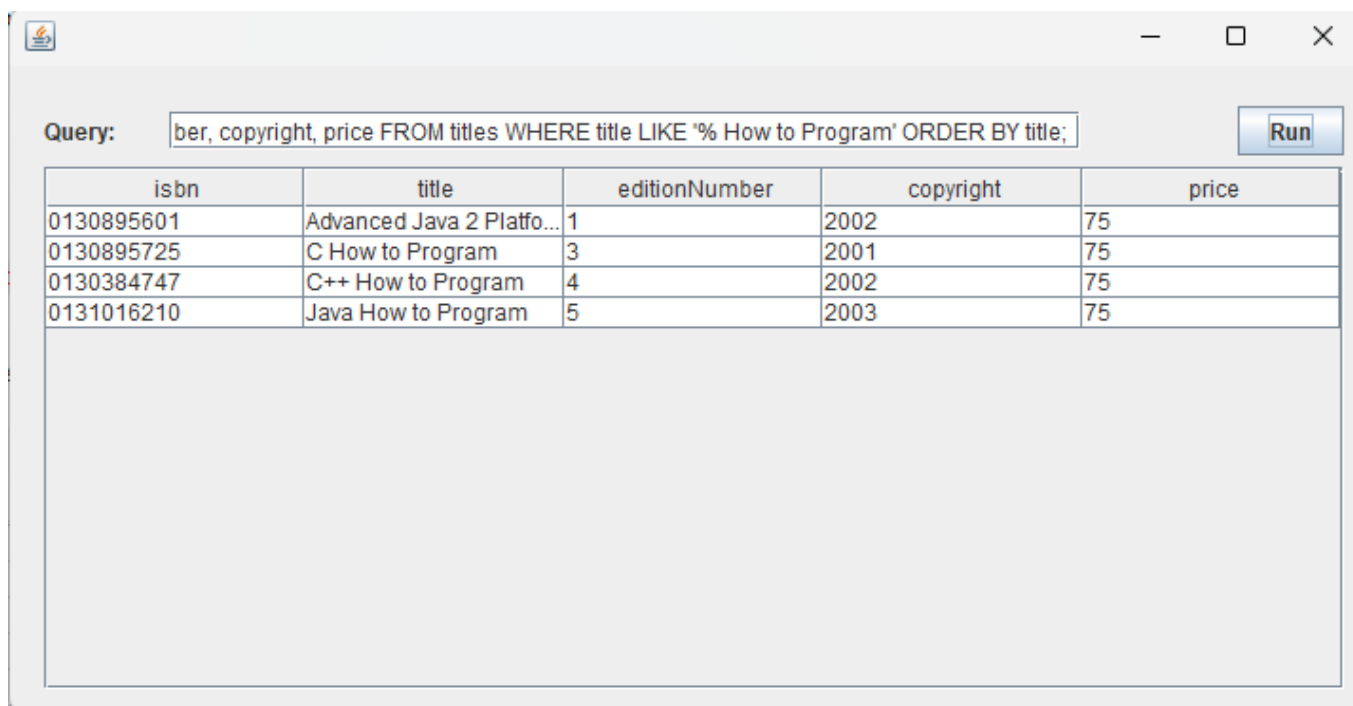
authorID	firstName	lastName
3	Tem	Nieto

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

SQL:

```
1 SELECT
2     isbn ,
3     title ,
4     editionNumber ,
5     copyright ,
6     price
7 FROM titles
8 WHERE title LIKE '%How to Program'
9 ORDER BY title;
10 GO
```

Result set:



The screenshot shows a database query window with a query text box and a 'Run' button. Below the query is a table with 5 columns: isbn, title, editionNumber, copyright, and price. The table contains 4 rows of data.

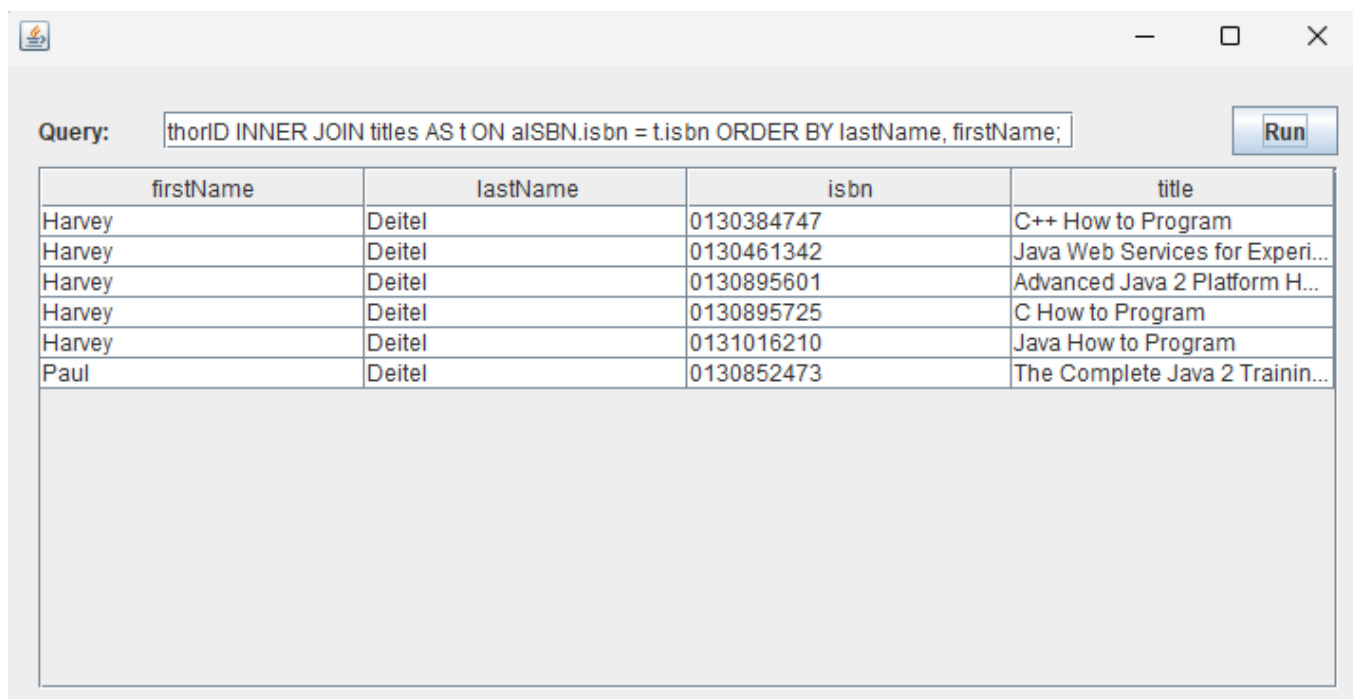
isbn	title	editionNumber	copyright	price
0130895601	Advanced Java 2 Platfo...	1	2002	75
0130895725	C How to Program	3	2001	75
0130384747	C++ How to Program	4	2002	75
0131016210	Java How to Program	5	2003	75

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

SQL:

```
1 SELECT
2     firstName ,
3     lastName ,
4     t.isbn ,
5     title
6 FROM authors AS a INNER JOIN authorISBN AS aISBN
7 ON a.authorID = aISBN.authorID
8 INNER JOIN titles AS t
9 ON aISBN.isbn = t.isbn
10 ORDER BY lastName , firstName;
11 GO
```

Result set:



The screenshot shows a database query tool window. At the top, there is a query editor with the text: `thorID INNER JOIN titles AS t ON aISBN.isbn = t.isbn ORDER BY lastName, firstName;`. To the right of the editor is a 'Run' button. Below the editor is a table displaying the results of the query. The table has four columns: 'firstName', 'lastName', 'isbn', and 'title'. The results show six rows of data, all with 'Deitel' as the last name. The first names are 'Harvey' (five times) and 'Paul' (once). The titles are 'C++ How to Program', 'Java Web Services for Experi...', 'Advanced Java 2 Platform H...', 'C How to Program', 'Java How to Program', and 'The Complete Java 2 Trainin...'.

firstName	lastName	isbn	title
Harvey	Deitel	0130384747	C++ How to Program
Harvey	Deitel	0130461342	Java Web Services for Experi...
Harvey	Deitel	0130895601	Advanced Java 2 Platform H...
Harvey	Deitel	0130895725	C How to Program
Harvey	Deitel	0131016210	Java How to Program
Paul	Deitel	0130852473	The Complete Java 2 Trainin...

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

SQL:

```
1 SELECT COUNT(copyright) AS num_of_copyright
2 FROM titles
3 WHERE copyright = 2001;
4 GO
```

Result set:

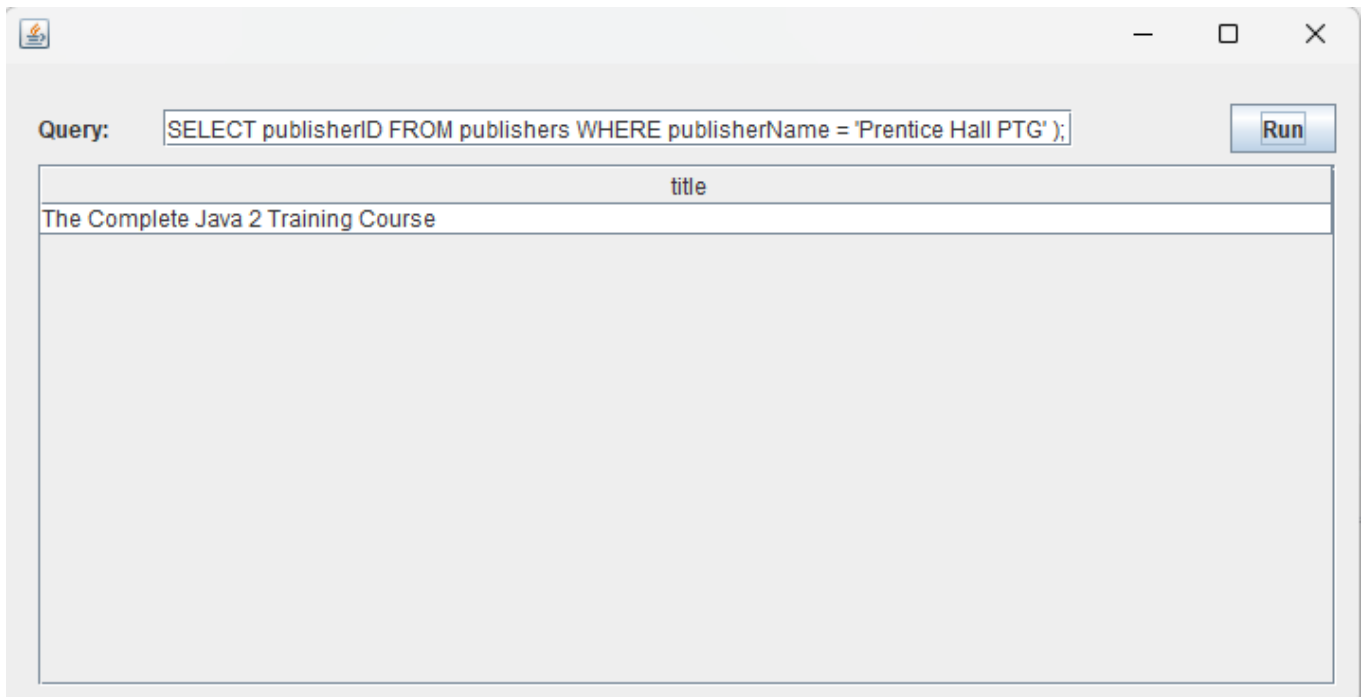


6. **Query:** Finds the name of books which have. published by Prentice Hall PTG.

SQL:

```
1 SELECT title
2 FROM titles
3 WHERE publisherID IN (
4     SELECT publisherID
5     FROM publishers
6     WHERE publisherName = 'Prentice_Hall_PTG'
7 );
8 GO
```

Result set:

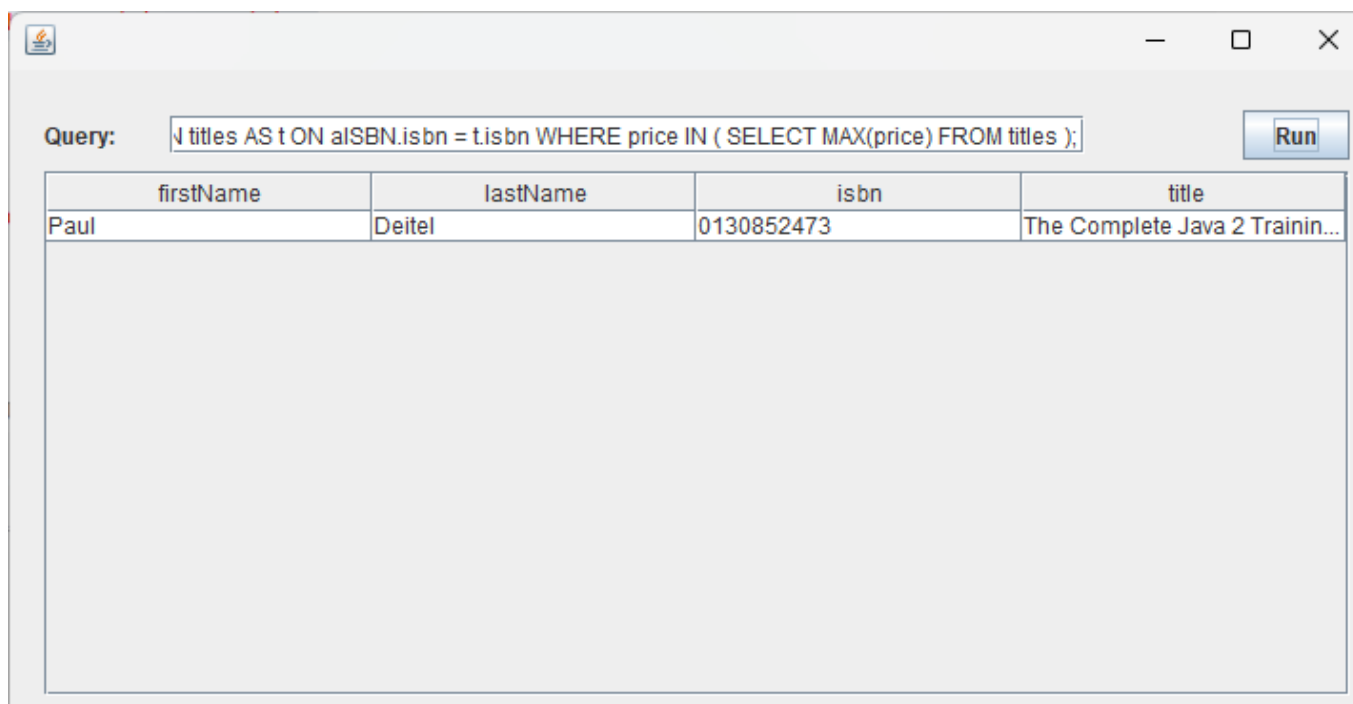


7. **Query:** Finds the author names who've the books with the highest price.

SQL:

```
1  SELECT
2      firstName ,
3      lastName ,
4      t.isbn ,
5      title
6  FROM authors AS a INNER JOIN authorISBN AS aISBN
7  ON a.authorID = aISBN.authorID
8  INNER JOIN titles AS t
9  ON aISBN.isbn = t.isbn
10 WHERE price IN (
11     SELECT MAX(price)
12     FROM titles
13 );
14 GO
```

Result set:



The screenshot shows a database query window. At the top, there is a text box labeled "Query:" containing the SQL statement: `SELECT titles AS t ON aISBN.isbn = t.isbn WHERE price IN (SELECT MAX(price) FROM titles);`. To the right of the text box is a "Run" button. Below the text box is a table with the following data:

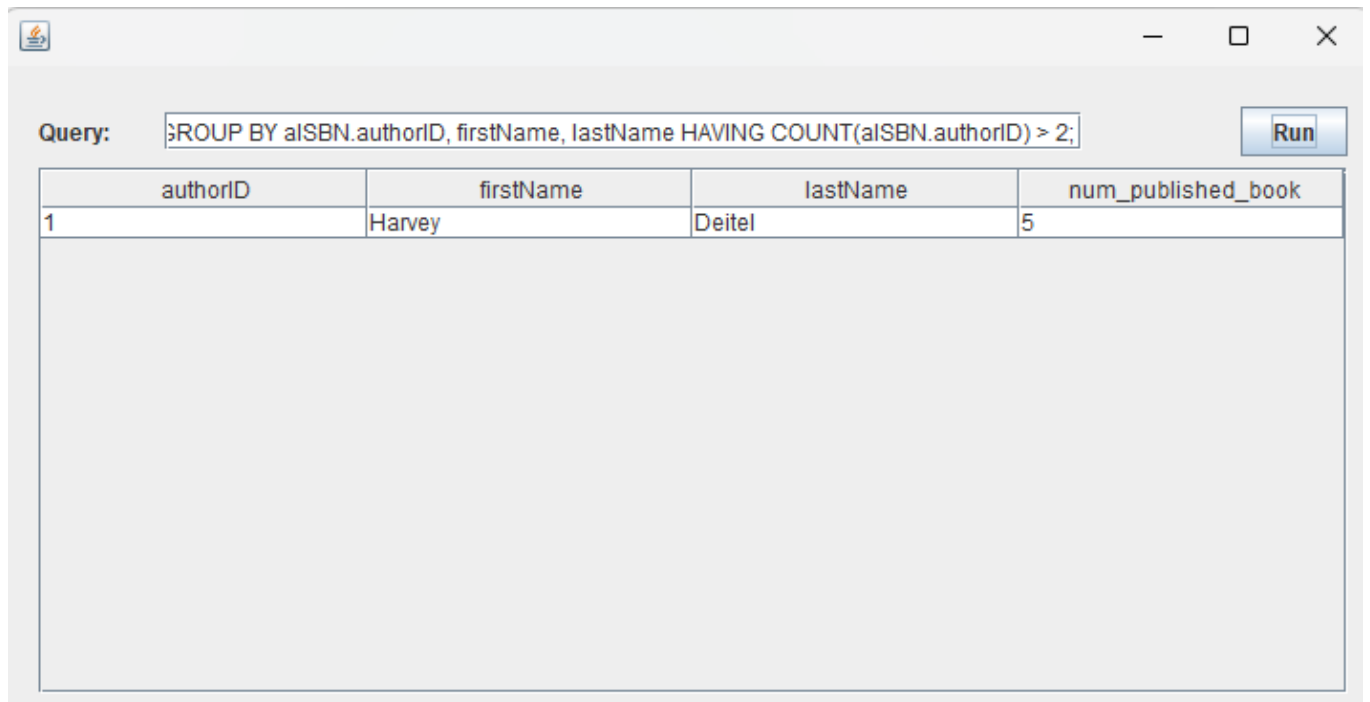
firstName	lastName	isbn	title
Paul	Deitel	0130852473	The Complete Java 2 Trainin...

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

SQL:

```
1 SELECT
2     aISBN.authorID ,
3     firstName ,
4     lastName ,
5     COUNT(aISBN.authorID) AS num_published_book
6 FROM authors AS a INNER JOIN authorISBN AS aISBN
7 ON a.authorID = aISBN.authorID
8 GROUP BY aISBN.authorID , firstName , lastName
9 HAVING COUNT(aISBN.authorID) > 2;
10 GO
```

Result set:



The screenshot shows a database query window with a title bar containing a small icon, a minus sign, a maximize button, and a close button. The window contains a text area for a query, a 'Run' button, and a table of results.

Query: `GROUP BY alISBN.authorID, firstName, lastName HAVING COUNT(alISBN.authorID) > 2;`

Run

authorID	firstName	lastName	num_published_book
1	Harvey	Deitel	5

————— *This is the end of the report* —————