

Trường Đại Học Quốc Tế - DHQG 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:

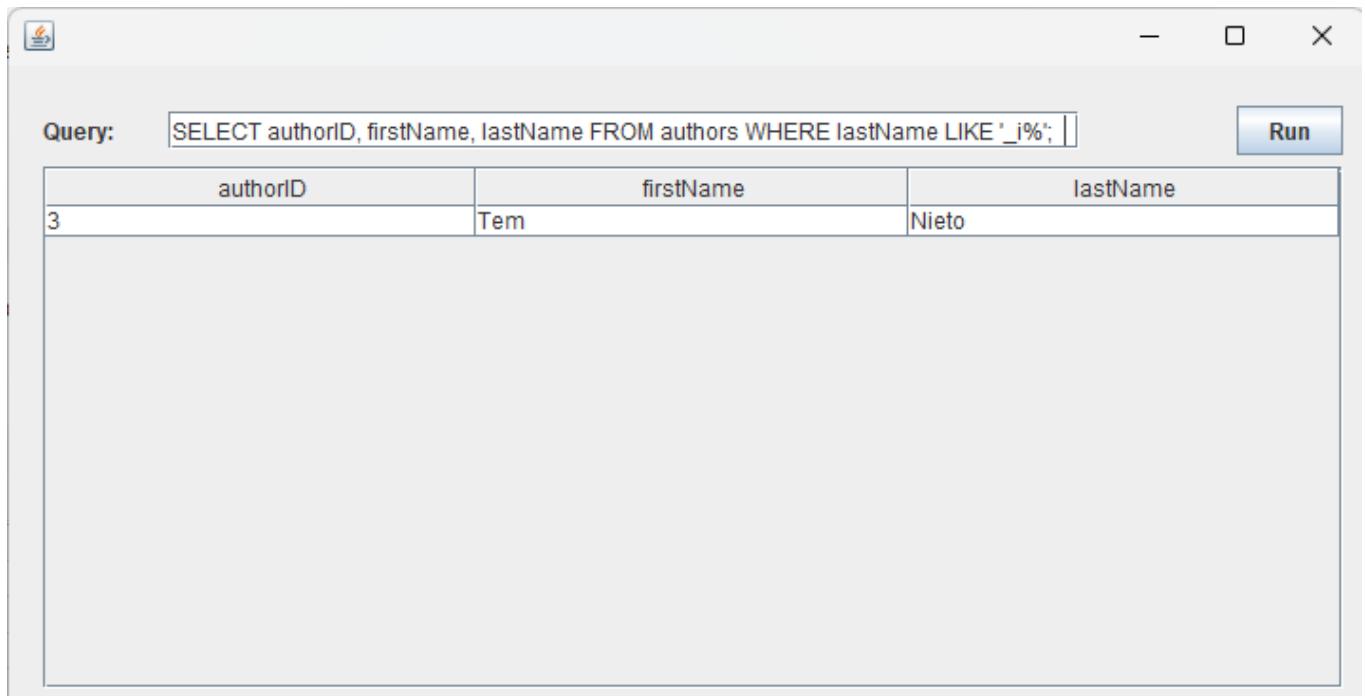
The screenshot shows a Windows-style application window titled 'Query Results'. In the top-left corner is a small icon of a computer monitor with a flame-like graphic. The main area contains a table with three columns: 'title', 'editionNumber', and 'copyright'. The table has six rows of data. A 'Run' button is visible in the top-right corner of the query input field.

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:

A screenshot of a Windows-style application window titled 'Query'. The window contains a query editor with the following text:

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

Below the query editor is a table representing the result set. The table has three columns: 'authorID', 'firstName', and 'lastName'. There is one row of data:

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 Windows-style application window titled 'Query'. In the top-left corner, there is a small icon of a computer monitor with a flame. The main area contains a text input field with the following SQL query:

```
Query: SELECT title, copyright, price FROM titles WHERE title LIKE '% How to Program' ORDER BY title;
```

To the right of the input field is a blue 'Run' button. Below the input field is a table with five columns: 'isbn', 'title', 'editionNumber', 'copyright', and 'price'. The table contains four 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 Windows-style application window titled 'Query'. In the top-left corner is a small icon of a computer monitor with a flame. The top-right corner has standard window controls for minimize, maximize, and close. Below the title bar is a toolbar with a 'Run' button. The main area contains a table with four columns: 'firstName', 'lastName', 'isbn', and 'title'. The table displays six rows of data, all belonging to the author 'Harvey Deitel'. The 'title' column lists several books, such as 'C++ How to Program', 'Java Web Services for Experi...', and 'Advanced Java 2 Platform H...'. A large, empty rectangular area is visible below the table.

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:

The screenshot shows a Windows-style application window titled 'Query'. In the 'Query' text area, the following SQL statement is entered:

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

A 'Run' button is visible to the right of the query text. Below the query text, the results are displayed in a table format:

num_of_copyright
1

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:

The screenshot shows a Windows-style application window titled "Query". In the top-left corner, there's a small icon of a computer monitor with a flame. The main area contains a query editor with the following text:

```
Query: SELECT publisherID FROM publishers WHERE publisherName = 'Prentice Hall PTG';
```

To the right of the query is a "Run" button. Below the query editor is a table with one row. The table has a single column labeled "title". The value in the "title" column is "The Complete Java 2 Training Course".

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 Windows-style application window titled 'Query'. In the top-left corner, there's a small icon of a computer monitor with a flame. The main area contains a table with four columns: 'firstName', 'lastName', 'isbn', and 'title'. A single row of data is displayed: Paul Deitel, 0130852473, and 'The Complete Java 2 Trainin...'. To the right of the table is a large, empty rectangular area. At the bottom right of the window is a blue 'Run' button with white text.

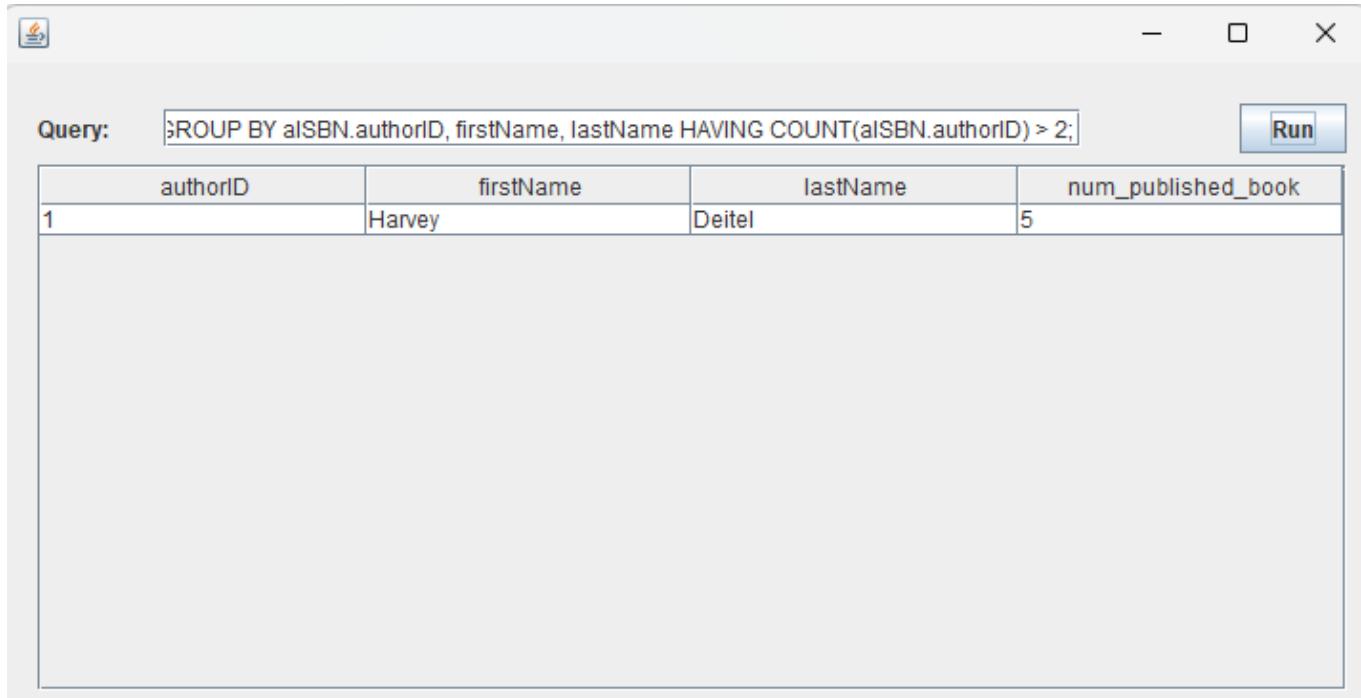
firstName	lastName	isbn	title
Paul	Deitel	0130852473	The Complete Java 2 Trainin...

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:



A screenshot of a Windows application window titled "Query". The window contains a query editor with the following SQL statement:

```
GROUP BY aISBN.authorID, firstName, lastName HAVING COUNT(aISBN.authorID) > 2;
```

To the right of the query editor is a "Run" button. Below the query editor is a table with four columns: "authorID", "firstName", "lastName", and "num_published_book". The table has one row of data:

authorID	firstName	lastName	num_published_book
1	Harvey	Deitel	5

This is the end of the report
