Bahria University,

Karachi Campus



LAB EXPERIMENT NO.

\_\_\_03\_\_\_

LIST OF TASKS

|  |  |
| --- | --- |
| TASK NO | OBJECTIVE |
| **01** | Display Product Name and its Category Name where Category Name starts with B (Hint: Left join category and product, use wild card) |
| **02** | Display Titles and their quantity (Hint Pubs database, table title and sales, left join). |
| **03** | Use Right join to display Book Title and publisher Names (Hint pubs Database, Table Title and Publisher) Write down the reason for any null values if coming in title column. |
| **04** | User Right join to display those publishers where title is null. |
| **05** | Use self-join to display Publishers name where city is same (Publisher id should be different) Sample example |
| 06 | Use cross join (Cartesian join) to Display Book Title and Publisher Name. |

Submitted On:

22-03-2023

(Date: DD/MM/YY)

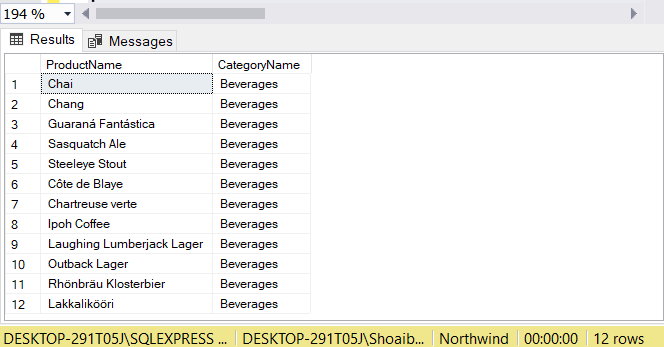
**Task 01:** Display Product Name and its Category Name where Category Name starts with B (Hint: Left join category and product, use wild card)

**Solution:** select ProductName,CategoryName from Categories left join Products on

Categories.CategoryID=Products.CategoryID

where Categories.CategoryName like 'B%'

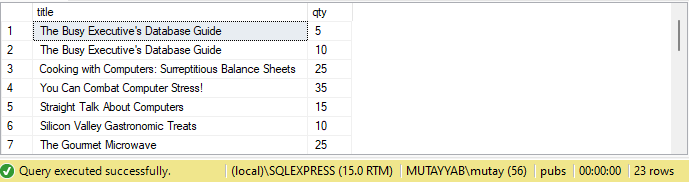
**Output:**



**Task 02:** Display Titles and their quantity (Hint Pubs database, table title and sales, left join)

**Solution:** select A.title,B.qty from titles as A left join sales as B on

A.title\_id=b.title\_id

**Output:**

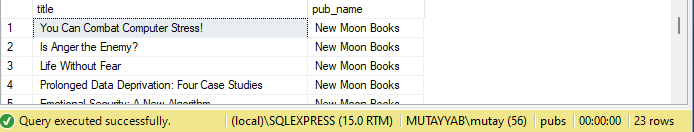
**Task 03:** Use Right join to display Book Title and publisher Names (Hint pubs Database, Table Title and Publisher) Write down the reason for any null values if coming in title column.

**Solution:** select A.title,B.pub\_name from titles as A right join publishers as B on

A.pub\_id=b.pub\_id

**Reason**

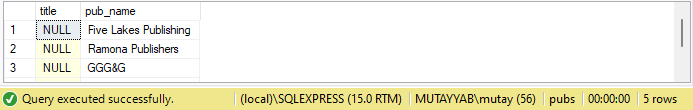
The reason for null values in the title column is because there may be publishers without any titles, and a right join will still include those publisher rows but the title column will have null values.

**Output:**

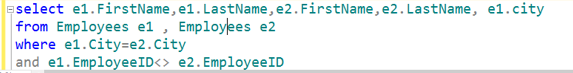
**Task 04:** User Right join to display those publishers where title is null.

**Solution:** select A.title,B.pub\_name from titles as A right join publishers as B on

A.pub\_id=b.pub\_id where A.title is null

**Output:**

**Task No. 5:** Use self-join to display Publishers name where city is same (Publisher id should be different) Sample example

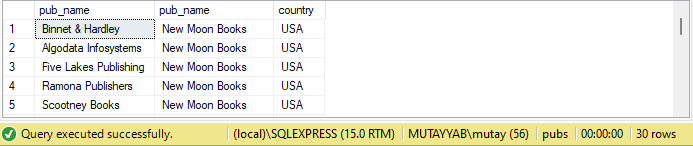


**Solution:**

select B.pub\_name,a.pub\_name,A.country from publishers as A , publishers as B

where A.pub\_id<>b.pub\_id and A.country=b.country

**Output:**

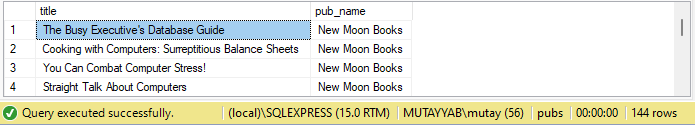
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**Task No. 6:** Use cross join (Cartesian join) to Display Book Title and Publisher Name.

**Solution:**

select A.title,b.pub\_name from titles as A ,publishers as B

**Output:**



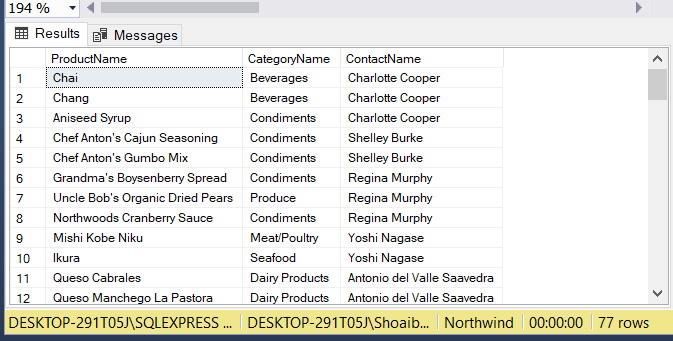
**Task No. 7:** Use two full joins to Display Product Name, Category Name and Supplier Name (Hint: Below Example)

**Solution:** select ProductName,CategoryName,ContactName from Products full join Categories

on Products.CategoryID=Categories.CategoryID full join Suppliers on

Suppliers.SupplierID=Products.SupplierID

**Output:**



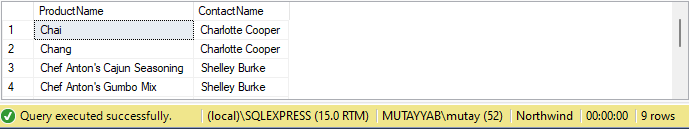
**Task No. 8:** Use full join to display the name of Supplier for the product starting with letter C (Hint: Northwind)

**Solution:**

select ProductName,ContactName from Products full join Suppliers on

Suppliers.SupplierID=Products.SupplierID where ProductName like 'C%'

**Output:**



**Task No. 9:** Get shipper’s Company Name for an order using inner join. (Display only orderID from orders and comapnayName from Customers table)

**Solution:**

select Orders.OrderID, CompanyName from Orders inner join Customers on

Orders.CustomerID=Customers.CustomerID

**Output:**

Graphical user interface, application, Word

Description automatically generated