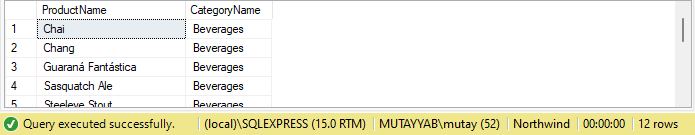
**Task No. 1:** Display Product Name and its Category Name where Category Name starts with B (Hint: Left join category and product, use wild card)

**Solution:**

select ProductName,CategoryName from Categories left join Products on

Categories.CategoryID=Products.CategoryID where CategoryName like 'B%'

**Output:**



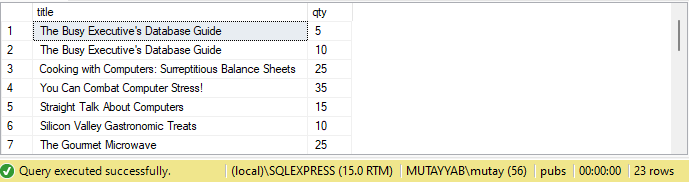
**Task No. 2:** Display Titles and their quantity (Hint Pubs database, table title and sales, left join)

**Solution:**

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

A.title\_id=b.title\_id

**Output:**

****

**Task No. 3:** 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:**

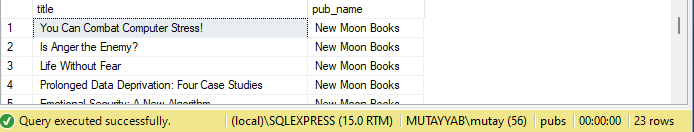
select A.title,B.pub\_name from titles as A right join publishers as B on

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:**

****

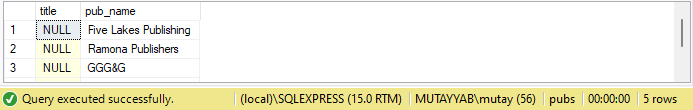
**Task No. 4:** User Right join to display those publishers where title is null.

**Solution:**

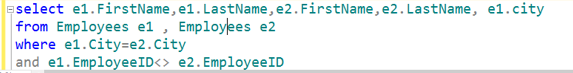
select A.title,B.pub\_name from titles as A right join publishers as B on

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

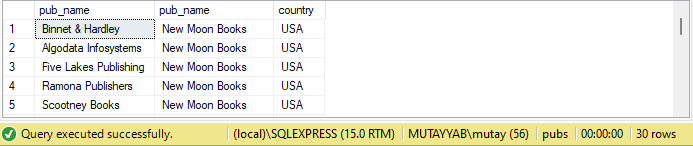


**Solution:**

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:**

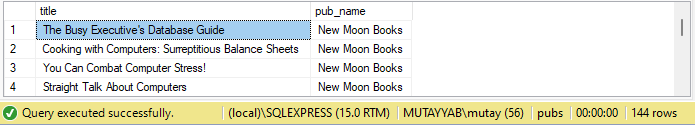
****

**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)

Example:

select col1 ,col2 ,col3

from table supplier

full join table product

on supplier.productid=product.productid

full join Categories

on product.CategoryID=category.CategoryID

**Solution:**

select ProductName,CategoryName,ContactName from Products full join Categories

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

Suppliers.SupplierID=Products.SupplierID

Graphical user interface, text, application, table

Description automatically generated**Output:**

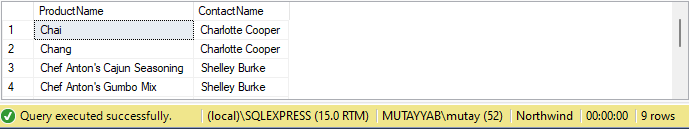
**Task No. 8:** Use full join to display the name of Supplier for the product starting with letter C (Hint: Northwind)

**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

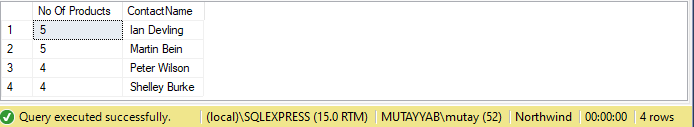
Description automatically generated

**Task No. 10:** Count no of Products’s against each suppliers name. list only those products whose count is greater than 3

**Solution:**

select COUNT(ProductName)as [No Of Products],Suppliers.ContactName from Products inner join Suppliers on Products.SupplierID= Suppliers.SupplierID group by ContactName having COUNT(ProductName)>3

**Output:**



**Task No. 11:** Display Region ID, Region Description, Territories Description and (inner join with table Territories and Region)

**Solution:**

select Region.RegionID,Region.RegionDescription,Territories.TerritoryDescription from Region inner join Territories on Region.RegionID=Territories.RegionID

**Output:**

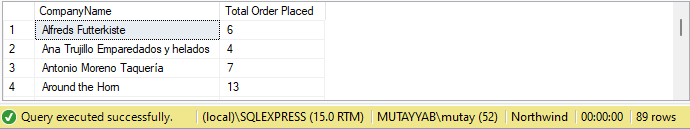
Graphical user interface, application, table, Word

Description automatically generated

**Task No. 12:** Display Company Name and Total orders placed by the company (Table: orders, customer, use inner join, group by)

**Solution:**

select Customers.CompanyName, count(orders.OrderID) as [Total Order Placed] from Customers inner join Orders on Customers.CustomerID=orders.CustomerID group by Customers.CompanyName

**Output:**