[Data Base Management System] [SQL Joins]

Exercise:

1) Display Product's name and their supplier's name (ContactName), whose supplier's name does not contain "A" and there should be at most 10 characters in Product's name.

Solution:

```
use Northwind;
SELECT p.ProductName, s.ContactName AS SupplierName
FROM Products p
INNER JOIN Suppliers s ON p.SupplierID = s.SupplierID
WHERE LEN(p.ProductName) <= 10
AND s.ContactName NOT LIKE '%A%'</pre>
```

Output:



2) Create a report showing order ID., OrderDate, EmployeeID, and the firstname and LastName of the associated Employee. (Tables: Employees & Orders)

Solution:

```
use Northwind;
SELECT o.OrderID, o.OrderDate, o.EmployeeID, e.FirstName, e.LastName
FROM Orders o
INNER JOIN Employees e ON o.EmployeeID = e.EmployeeID;
```

Output:



3) Count no of Products's against each Suppliers name. List only those products whose count is less than 5.

Solution:

```
use Northwind;
SELECT s.CompanyName AS SupplierName, COUNT(p.ProductID) AS ProductCount
FROM Products p
INNER JOIN Suppliers s ON p.SupplierID = s.SupplierID
GROUP BY s.CompanyName
HAVING COUNT(p.ProductID) < 5;</pre>
```

Output:



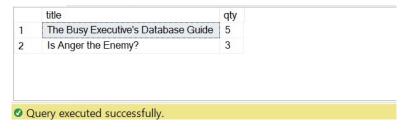
[Data Base Management System] [SQL Joins]

4) Display Titles and their quantity. Show only those records where quantity is less than 10 (Hint Pubs database, table title and sales).

Solution:

```
use pubs;
SELECT t.title, s.qty
FROM titles t
INNER JOIN sales s ON t.title_id = s.title_id
WHERE s.qty < 10;</pre>
```

Output:



5) Display Book Title and publisher Names (pubs Database, Table Title and Publisher).

Solution:

```
use pubs;
SELECT t.title, s.qty
FROM titles t
INNER JOIN sales s ON t.title_id = s.title_id
WHERE s.qty < 10;</pre>
```

Output:

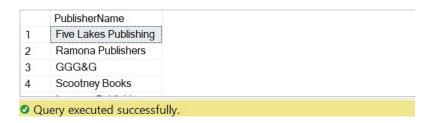


6) Display name of those publishers who haven't published any book yet.

Solution:

```
use pubs;
SELECT p.pub_name AS PublisherName FROM publishers p LEFT JOIN titles t ON p.pub_id =
t.pub_id WHERE t.pub_id IS NULL;
```

Output:



[Data Base Management System] [SQL Joins]

7) Display Authors name whose city is same (Author id should be different).

Solution:

```
use pubs;
SELECT t.title, s.qty
FROM titles t
INNER JOIN sales s ON t.title_id = s.title_id
WHERE s.qty < 10;</pre>
```

Output:

uthorLastName2
arson
Ringer
lunter
Ringer
Rin

8) Use cross join (Cartesian join) to Display Book Title and Publisher Name.

Solution:

```
use pubs;
SELECT t.title AS BookTitle, p.pub_name AS PublisherName
FROM titles t
CROSS JOIN publishers p;
```

Output:

	BookTitle	PublisherName
1	The Busy Executive's Database Guide	New Moon Books
2	Cooking with Computers: Surreptitious Balance Sh	New Moon Books
3	You Can Combat Computer Stress!	New Moon Books
4	Straight Talk About Computers	New Moon Books
O O	uery executed successfully.	

9) Use two full joins to Display Product Name, Category Name and Supplier Name.

Solution:

```
use Northwind;
SELECT
    p.ProductName,
    c.CategoryName,
    s1.CompanyName AS SupplierName
FROM
    Products p FULL JOIN Categories c ON p.CategoryID = c.CategoryID FULL JOIN Suppliers
s1 ON p.SupplierID = s1.SupplierID;
```

Output:



[Data Base Management System] [SQL Joins]

10) Write a query to list the names of employees that belongs to the same location as the employee named Nancy.

Solution:

Query executed successfully.