Bahria University,

Karachi Campus



LAB EXPERIMENT NO.

4

LIST OF TASKS

Task No	Objective		
1	Display Product Name and its Category Name where Category Name starts		
	with B		
2	Display Titles and their quantity		
3	Use Right join to display Book Title and publisher Names. Write down the		
	reason for any null values if coming in title column.		
4	Use Right join to display those publishers where title is null		
5	lists all customers and suppliers		
6	Use cross join (Cartesian join) to Display Book Title and Publisher Name.		
7	Use two full joins to Display Product Name, Category Name and Supplier		
	Name		
8	Use full join to display the name of Supplier for the product starting with letter		
	C		
9	Get shipper's Company Name for an order using inner join.		
10	Count no of Products's against each suppliers name. list only those products		
	whose count is greater than 3		
11	Display Region ID, Region Description, Territories Description and (inner join		
	with table Territories and Region)		
12	Display Company Name and Total orders placed by the company		

Submitted On:

___5/4/2022___

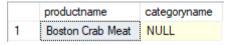
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Task# 01:- Display Product Name and its Category Name where Category Name starts with B

Query:-

select products.productname,categories.categoryname from products left join categories on products.productid = categories.categoryid where products.productname like 'B%'

Output:-



Task # 02: Display Titles and their quantity

Query:-

select titles.title,sales.qty from titles left join sales on titles.title_id = sales.title_id

Output:-



Task#03:- Use Right join to display Book Title and publisher Names. Write down the reason for any null values if coming in title column.

Query:-

select titles.title,publishers.pub_name from titles right join publishers on titles.pub_id = publishers.pub_id

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Output:-

	title	pub_name	
	You Can Combat Computer Stress!	New Moon Books	
	Is Angerthe Enemy?	New Moon Books	
3	Life Without Fear	New Moon Books	
ļ	Prolonged Data Deprivation: Four Case Studies	New Moon Books	
5	Emotional Security: A New Algorithm	New Moon Books	
6	Silicon Valley Gastronomic Treats	Binnet & Hardley	
7	The Gournet Microwave	Binnet & Hardley	
3	The Psychology of Computer Cooking	Binnet & Hardley	
9	Computer Phobic AND Non-Phobic Individuals: Beha	Binnet & Hardley	
10	Onions, Leeks, and Garlic: Cooking Secrets of the M	Binnet & Hardley	
11	Fifty Years in Buckingham Palace Kitchens	Binnet & Hardley	

Reason:-

Null values are coming in title column because those publishers who do not have any book title, the title name for those publishers are null.

Task# 04:- Use Right join to display those publishers where title is null

Query:-

select publishers.pub_name from titles right join publishers on titles.pub_id = publishers.pub_id where titles.title is null

Output:-

	pub_name		
1	Five Lakes Publishing		
2	Ramona Publishers		
3	GGG&G		
4	Scootney Books		
5	Luceme Publishing		

Task# 05:- Lists all customers and suppliers

Query:-

select t1.pub_name,t2.pub_name,t1.city from publishers t1,publishers t2 WHERE
t1.pub_id <> t2.pub_id AND t1.City = t2.City

Output:-

No record found

Task# 06:- Use cross join (Cartesian join) to Display Book Title and Publisher Name.

Query:-

select t1.title,t2.pub_name from titles t1 cross join publishers t2



	title	pub_name
	The Busy Executive's Database Guide	New Moon Books
	Cooking with Computers: Surreptitious Balance Sheets	New Moon Books
	You Can Combat Computer Stress!	New Moon Books
	Straight Talk About Computers	New Moon Books
	Silicon Valley Gastronomic Treats	New Moon Books
	The Gournet Microwave	New Moon Books
	The Psychology of Computer Cooking	New Moon Books
	But Is It User Friendly?	New Moon Books
	Secrets of Silicon Valley	New Moon Books
0	Net Etiquette	New Moon Books
1	Computer Phobic AND Non-Phobic Individuals: Beha	New Moon Books
0	uery executed successfully.	

Task# 07:- Use two full joins to Display Product Name, Category Name and Supplier Name

Query:-

select products.productname,categories.categoryname,suppliers.contactname from products full outer join categories on products.categoryid = categories.categoryid full outer join suppliers on products.supplierid = suppliers.SupplierID

Output:-

productname categoryname contactname
Chai Beverages Charlotte Cooper
Chang Beverages Charlotte Cooper
Aniseed Syrup Condiments Charlotte Cooper
Chef Anton's Cajun Seasoning Condiments Shelley Burke
Chef Anton's Gumbo Mix Condiments Shelley Burke
Grandma's Boysenberry Spread Condiments Regina Murphy
Uncle Bob's Organic Dried Pears Produce Regina Murphy
Northwoods Cranberry Sauce Condiments Regina Murphy
Mishi Kobe Niku Meat/Poultry Yoshi Nagase
Ikura Seafood Yoshi Nagase
Queso Cabrales Dairy Products Antonio del Valle Saavedra
ery executed successfully. DESKTOP-KOFOL38 (15.0 RTM) DESKTOP-KOFOL38\DELL (5.0 RTM) DESKTOP-K

Task #08:- Use full join to display the name of Supplier for the product starting with letter \mathbf{C}

Query:-

select products.productname,suppliers.contactname from products full outer join suppliers on products.supplierid = suppliers.supplierid where products.productname like 'C%'

Output:-

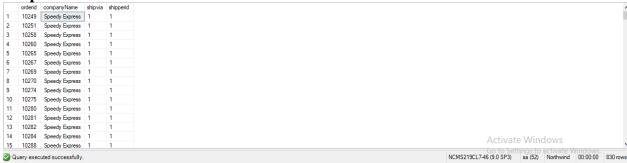
	productname	contactname
1	Chai	Charlotte Cooper
2	Chang	Charlotte Cooper
3	Chef Anton's Cajun Seasoning	Shelley Burke
4	Chef Anton's Gumbo Mix	Shelley Burke
5	Camarvon Tigers	lan Devling
6	Côte de Blaye	Guylène Nodier
7	Chartreuse verte	Guylène Nodier
8	Chocolade	Dirk Luchte
9	Camembert Pierrot	Eliane Noz

Task# 09:- Get shipper's Company Name for an order using inner join.

Query:-

select orders.orderid, shippers.companyName from shippers inner join orders on orders.shipvia = shippers.shipperid

Output:-



Task# 10:- Count no of Products's against each suppliers name. list only those products whose count is greater than 3

Query:-

select suppliers.companyname,count(products.supplierid) from suppliers inner join products on suppliers.supplierid = products.supplierid group by suppliers.companyname having count(products.supplierid) > 3

Output:-

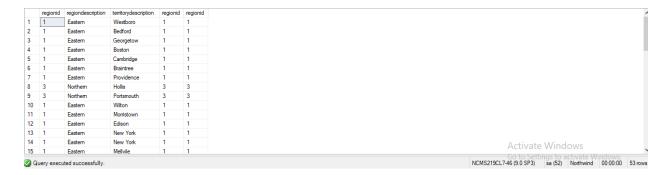
	companyname	(No column name)
1	New Orleans Cajun Delights	4
2	Pavlova, Ltd.	5
3	Plutzer Lebensmittelgroßmärkte AG	5
4	Specialty Biscuits, Ltd.	4

Task# 11:- Display Region ID, Region Description, Territories Description and (inner join with table Territories and Region)

Ouerv:-

select region.regionid,region.regiondescription,territories.territorydescription from region inner join territories on region.regionid = territories.regionid

Output:-



Task# 12:- Display Company Name and Total orders placed by the company

Query:-

select customers.companyname,count(orders.customerid) from customers inner join orders on customers.customerid = orders.customerid group by customers.companyname

