

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___
 (Date: DD/MM/YY)

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:-

| | productname | categoryname |
|---|------------------|--------------|
| 1 | Boston Crab Meat | NULL |

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:-

| | title | qty |
|----|---|------|
| 1 | The Busy Executive's Database Guide | 5 |
| 2 | The Busy Executive's Database Guide | 10 |
| 3 | Cooking with Computers: Surreptitious Balance Sh... | 25 |
| 4 | You Can Combat Computer Stress! | 35 |
| 5 | Straight Talk About Computers | 15 |
| 6 | Silicon Valley Gastronomic Treats | 10 |
| 7 | The Gourmet Microwave | 25 |
| 8 | The Gourmet Microwave | 15 |
| 9 | The Psychology of Computer Cooking | NULL |
| 10 | But Is It User Friendly? | 30 |
| 11 | Secrets of Silicon Valley | 50 |

Query executed successfully. | DESKTOP-KOFOL3B (15.0 RTM) | DESKTOP-KOFOL3B\DELL (65) | pubs | 00:00:00 | 23 rows

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
```

Output:-

| | title | pub_name |
|----|--|------------------|
| 1 | You Can Combat Computer Stress! | New Moon Books |
| 2 | Is Anger the Enemy? | New Moon Books |
| 3 | Life Without Fear | New Moon Books |
| 4 | 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 Gourmet Microwave | Binnet & Hardley |
| 8 | 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 |

Query executed successfully. | DESKTOP-KOFOL3B (15.0 RTM) | DESKTOP-KOFOL3B\DELL (65) | pubs | 00:00:00 | 23 rows

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

Output:-

| | title | pub_name |
|----|--|----------------|
| 1 | The Busy Executive's Database Guide | New Moon Books |
| 2 | Cooking with Computers: Surreptitious Balance Sheets | New Moon Books |
| 3 | You Can Combat Computer Stress! | New Moon Books |
| 4 | Straight Talk About Computers | New Moon Books |
| 5 | Silicon Valley Gastronomic Treats | New Moon Books |
| 6 | The Gourmet Microwave | New Moon Books |
| 7 | The Psychology of Computer Cooking | New Moon Books |
| 8 | But Is It User Friendly? | New Moon Books |
| 9 | Secrets of Silicon Valley | New Moon Books |
| 10 | Net Etiquette | New Moon Books |
| 11 | Computer Phobic AND Non-Phobic Individuals: Beha... | New Moon Books |

Query executed successfully. | DESKTOP-KOFOL3B (15.0 RTM) | DESKTOP-KOFOL3B\DELL (52) | pubs | 00:00:01 | 144 rows

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 |
|----|---------------------------------|----------------|----------------------------|
| 1 | Chai | Beverages | Charlotte Cooper |
| 2 | Chang | Beverages | Charlotte Cooper |
| 3 | Aniseed Syrup | Condiments | Charlotte Cooper |
| 4 | Chef Anton's Cajun Seasoning | Condiments | Shelley Burke |
| 5 | Chef Anton's Gumbo Mix | Condiments | Shelley Burke |
| 6 | Grandma's Boysenberry Spread | Condiments | Regina Murphy |
| 7 | Uncle Bob's Organic Dried Pears | Produce | Regina Murphy |
| 8 | Northwoods Cranberry Sauce | Condiments | Regina Murphy |
| 9 | Mishi Kobe Niku | Meat/Poultry | Yoshi Nagase |
| 10 | Ikura | Seafood | Yoshi Nagase |
| 11 | Queso Cabrales | Dairy Products | Antonio del Valle Saavedra |

Query executed successfully. | DESKTOP-KOFOL3B (15.0 RTM) | DESKTOP-KOFOL3B\DELL (52) | NORTHWND | 00:00:00 | 77 rows

Task #08:- Use full join to display the name of Supplier for the product starting with letter 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 | Ian Devling |
| 6 | Côte de Blaye | Guyène Nodier |
| 7 | Chartreuse verte | Guyène 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:-

| | orderid | companyName | shipvia | shipperid |
|----|---------|----------------|---------|-----------|
| 1 | 10249 | Speedy Express | 1 | 1 |
| 2 | 10251 | Speedy Express | 1 | 1 |
| 3 | 10258 | Speedy Express | 1 | 1 |
| 4 | 10260 | Speedy Express | 1 | 1 |
| 5 | 10265 | Speedy Express | 1 | 1 |
| 6 | 10267 | Speedy Express | 1 | 1 |
| 7 | 10269 | Speedy Express | 1 | 1 |
| 8 | 10270 | Speedy Express | 1 | 1 |
| 9 | 10274 | Speedy Express | 1 | 1 |
| 10 | 10275 | Speedy Express | 1 | 1 |
| 11 | 10280 | Speedy Express | 1 | 1 |
| 12 | 10281 | Speedy Express | 1 | 1 |
| 13 | 10282 | Speedy Express | 1 | 1 |
| 14 | 10284 | Speedy Express | 1 | 1 |
| 15 | 10288 | Speedy Express | 1 | 1 |

Query executed successfully. NCMS219CL746 (9.0 SP3) sa (52) Northwind 00:00:00 830 rows

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)**Query:-**

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

Output:-

| | regionid | regiondescription | territorydescription | regionid | regionid |
|----|----------|-------------------|----------------------|----------|----------|
| 1 | 1 | Eastern | Westboro | 1 | 1 |
| 2 | 1 | Eastern | Bedford | 1 | 1 |
| 3 | 1 | Eastern | Georgetown | 1 | 1 |
| 4 | 1 | Eastern | Boston | 1 | 1 |
| 5 | 1 | Eastern | Cambridge | 1 | 1 |
| 6 | 1 | Eastern | Braintree | 1 | 1 |
| 7 | 1 | Eastern | Providence | 1 | 1 |
| 8 | 3 | Northern | Hollis | 3 | 3 |
| 9 | 3 | Northern | Portsmouth | 3 | 3 |
| 10 | 1 | Eastern | Wilton | 1 | 1 |
| 11 | 1 | Eastern | Montistown | 1 | 1 |
| 12 | 1 | Eastern | Edison | 1 | 1 |
| 13 | 1 | Eastern | New York | 1 | 1 |
| 14 | 1 | Eastern | New York | 1 | 1 |
| 15 | 1 | Eastern | Melville | 1 | 1 |

Query executed successfully.

NCMS219CL7-46 (9.0 SP3) sa (52) Northwind 00:00:00 53 rows

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

Output:-

| | companyname | customerid |
|----|------------------------------------|------------|
| 1 | Alfreds Futterkiste | ALFKI |
| 2 | Alfreds Futterkiste | ALFKI |
| 3 | Alfreds Futterkiste | ALFKI |
| 4 | Alfreds Futterkiste | ALFKI |
| 5 | Alfreds Futterkiste | ALFKI |
| 6 | Alfreds Futterkiste | ALFKI |
| 7 | Ana Trujillo Emparedados y helados | ANATR |
| 8 | Ana Trujillo Emparedados y helados | ANATR |
| 9 | Ana Trujillo Emparedados y helados | ANATR |
| 10 | Ana Trujillo Emparedados y helados | ANATR |
| 11 | Antonio Moreno Taquería | ANTON |
| 12 | Antonio Moreno Taquería | ANTON |
| 13 | Antonio Moreno Taquería | ANTON |
| 14 | Antonio Moreno Taquería | ANTON |
| 15 | Antonio Moreno Taquería | ANTON |

Query executed successfully.

NCMS219CL7-46 (9.0 SP3) sa (52) Northwind 00:00:00 830 rows