Bahria University,

Karachi Campus

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LAB EXPERIMENT NO.

**05**

LIST OF TASKS

|  |  |
| --- | --- |
| TASK NO | OBJECTIVE |
| 1 | **Find the company’s name that placed order 10290. (Tables: Customers & Orders)** |
| 2 | **Find the Companies that placed orders in 1997 (Tables: Customers & Orders)** |
| 3 | **Create a report that shows the product name and supplier id for all products supplied by Exotic Liquids, Grandma Kelly’s Homestead, and Tokyo Traders.** |
| 4 | **Create a report that shows all products by name that are in the Seafood category.** |
| 5 | **Create a report that shows all companies by name that sell products** |
| 6 | **Create a report that shows all 5companies by name that sell products in the Seafood category.** |
| 7 | **Write query using a “sub query” to display which Customers were served by which Employee use Northwind** |
| 8 | **Write query using a “sub query” to list of all the stores that have discount records use pubs** |
| 9 | **Write query using a “sub query” to name publishers have got titles in store in Seattle? Use pubs.** |
| 10 | **Write query using a “sub query” to list all the authors available in Barnum’s store use pubs** |
| 11 | **Write query using a “sub query” to give the customer id and amount spent of the customer who spent the most using Northwind** |
| 12 | **Write query using a “sub query” to list all Northwind customers who have not placed an order.** |

Submitted On:

**19-April-2022**

**Task No 1: Find the company’s name that placed order 10290. (Tables: Customers & Orders)**

**Solution:** SELECT CompanyName, OrderID FROM Customers INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID WHERE OrderID = '10290'

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**Task No 2: Find the Companies that placed orders in 1997 (Tables: Customers & Orders)**

**Solution & Output**

SELECT CompanyName, OrderDate FROM Customers INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID WHERE OrderDate LIKE '%1997%'

Graphical user interface, text, table

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**Task No 3: Create a report that shows the product name and supplier id for all products supplied by Exotic Liquids, Grandma Kelly’s Homestead, and Tokyo Traders.**

**Solution & Output**

SELECT CompanyName, ProductName, Products.SupplierID FROM Products INNER JOIN

Suppliers ON Products.SupplierID = Suppliers.SupplierID WHERE CompanyName = 'Exotic Liquids' OR CompanyName = 'Tokyo Traders' OR CompanyName = 'Grandma Kelly''s Homestead'

Table

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**Task No 4: Create a report that shows all products by name that are in the Seafood category.**

**Solution & Output**

SELECT ProductName, CategoryName FROM Products INNER JOIN Categories ON Products.CategoryID =

Categories.CategoryID WHERE CategoryName = 'Seafood'

Table

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**Task No 5: Create a report that shows all companies by name that sell products**

**Solution & Output**

SELECT CompanyName, CategoryID FROM Products INNER JOIN Suppliers ON Products.SupplierID =

Suppliers.SupplierID WHERE CategoryID = '8'

Table

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**Task No 6: Create a report that shows all 5companies by name that sell products in the Seafood category.**

**Solution & Output**

SELECT CompanyName, CategoryName FROM Products FULL JOIN Suppliers ON Products.SupplierID =

Suppliers.SupplierID FULL JOIN Categories ON Products.CategoryID = Categories.CategoryID WHERE CategoryName = 'Seafood'

Table

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**Task No 7: Write query using a “sub query” to display which Customers were served by which Employee use Northwind**

**Solution & Output**

Select ContactName, A.OrderID, firstname+' '+Lastname as Employee FROM (select Orderid,

ContactName from orders left join Customers on Orders.CustomerID=Customers.CustomerID)

A inner join ( select OrderID,FirstName,LastName from Orders left join employees on

Orders.EmployeeID=Employees.EmployeeID)B on A.Orderid=B.Orderid

Graphical user interface, application, table, Excel

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**Task No 8: Write query using a “sub query” to list of all the stores that have discount records use pubs**

**Solution & Output**

SELECT A.stor\_id, stor\_name, discount FROM stores A, discounts B WHERE A.stor\_id IN ( SELECT B.stor\_id FROM discounts)

Table

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**Task No 9: Write query using a “sub query” to name publishers have got titles in store in Seattle? Use pubs.**

**Solution & Output**

select pub\_id,pub\_name from publishers where pub\_id in (select pub\_id from titles where title\_id in (select sales.title\_id from sales where stor\_id =(select stor\_id from stores where city='Seattle')))

A picture containing graphical user interface

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**Task No 10: Write query using a “sub query” to list all the authors available in Barnum’s store use pubs**

**Solution & Output**

SELECT (au\_fname + ' ' + au\_lname) AS AuthorName FROM authors WHERE au\_id IN (SELECT au\_id FROM titleauthor WHERE title\_id IN (SELECT title\_id FROM sales WHERE stor\_id

=(SELECT stor\_id FROM stores WHERE stor\_name = 'Barnum''s')))

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**Task No 11: Write query using a “sub query” to give the customer id and amount spent of the customer who spent the most using Northwind**

**Solution & Output**

Table

Description automatically generatedSELECT A.CustomerID, UnitPrice\*Quantity AS Highest\_price FROM (SELECT Orders.OrderID, Customers.CustomerID FROM Orders INNER JOIN Customers ON Customers.CustomerID = Orders.CustomerID)A INNER JOIN(SELECT Orders.OrderID, UnitPrice, Quantity FROM Orders INNER JOIN [Order Details] ON Orders.OrderID = [Order Details].OrderID WHERE UnitPrice\*Quantity IN (SELECT MAX(UnitPrice\*Quantity) FROM [Order Details]))B ON A.OrderID = B.OrderID

**Task No 12: Write query using a “sub query” to list all Northwind customers who have not placed an order.**

**Solution & Output**

(select CustomerID,ContactName from customers) except (select CustomerID,ContactName from customers where customerid in (select Orders.CustomerID from Orders))

Table

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