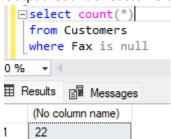
Databases Lab 7 FALL 2024

#### 4 Exercises

# The ERD Diagram for the Northwind Database is as shown in Fig 1.

1. Retrieve total number of customers do not have a fax number.

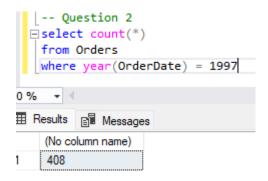
Output: Count of Customers with no fax number.





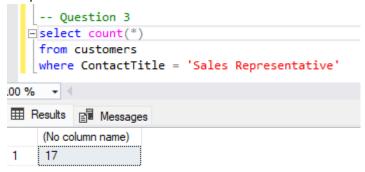
2. Retrieve the total number of orders placed in 1997.

Output: Count of Orders in 1997.



3. Find the number of customers who are 'Sales Representative'.

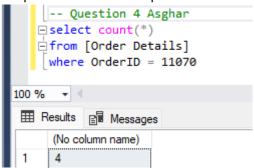
Output: Count of Customers.



4. Select total number of products ordered in Order ID 11070.

## Databases Lab 7 FALL 2024

Output: Total number of products.



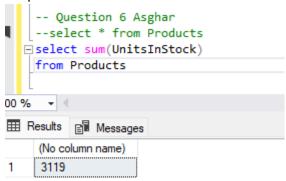
5. Retrieve total number of customers from the 'UK' or 'USA'.

Output: Total number of customers.



6. Retrieve the total number of units of all available items.

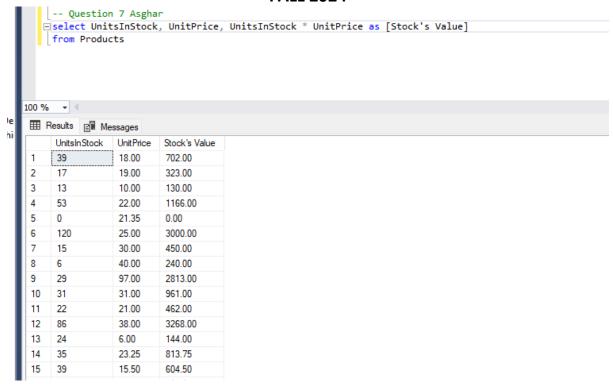
Output: Sum of all units.



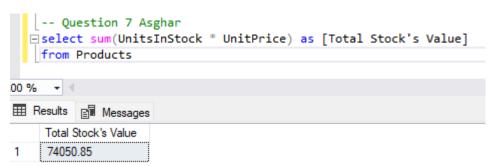
7. Retrieve the worth of all available stock (total number of available units × their prices).

Output: Worth of all available products.

## Databases Lab 7 FALL 2024



#### Now SUMMING ALL THE VALUES



#### 8. Find the total number of Employees who live in London.

Output: Total number of employees.



## Databases Lab 7 FALL 2024

#### 9. Find the total number of Female Employees who are not doctors.

Output: Total number of employees.

```
-- Question 9 Asghar
select count(*)
from Employees
where TitleOfCourtesy = 'Ms.' or TitleOfCourtesy = 'Mrs.'

100 % 
Results Messages

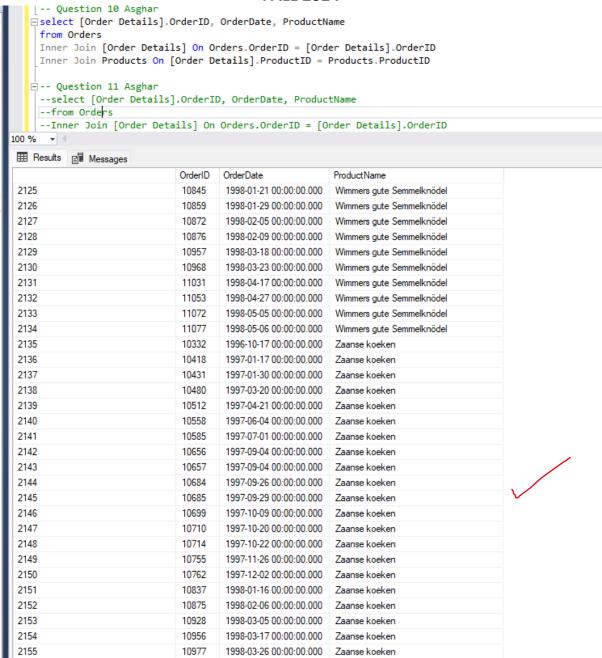
(No column name)

1 5
```

#### 10. Fetch the following details:

Output: OrderID, OrderDate, ProductName. Result contains 2155 rows.

## Databases Lab 7 FALL 2024



**11.** Fetch the following details: Output: Order ID, Order Date, Product Name, Customer Name. Result contains 2155 rows.

## Databases Lab 7 FALL 2024

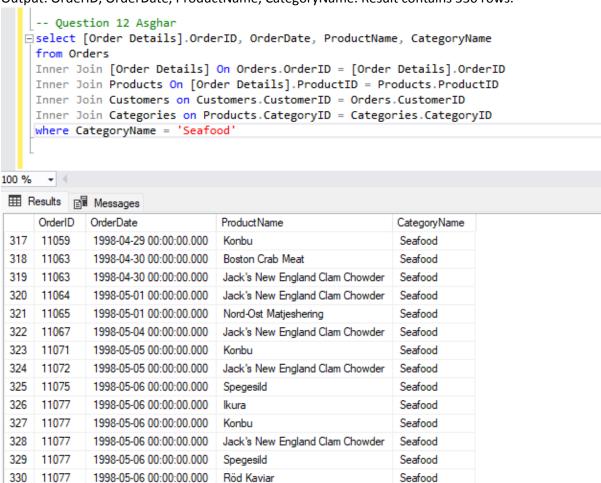
```
-- Question 11 Asghar
select [Order Details].OrderID, OrderDate, ProductName, Customers.CompanyName as CustomerName from Orders
Inner Join [Order Details] On Orders.OrderID = [Order Details].OrderID
Inner Join Products On [Order Details].ProductID = Products.ProductID
Inner Join Customers on Customers.CustomerID = Orders.CustomerID
```

100 % 🔻 🕔					
⊞ Results					
	OrderID	OrderDate	ProductName	CustomerName	
2125	10845	1998-01-21 00:00:00.000	Wimmers gute Semmelknödel	QUICK-Stop	
2126	10859	1998-01-29 00:00:00.000	Wimmers gute Semmelknödel	Frankenversand	
2127	10872	1998-02-05 00:00:00.000	Wimmers gute Semmelknödel	Godos Cocina Típica	
2128	10876	1998-02-09 00:00:00.000	Wimmers gute Semmelknödel	Bon app'	
2129	10957	1998-03-18 00:00:00.000	Wimmers gute Semmelknödel	HILARION-Abastos	
2130	10968	1998-03-23 00:00:00.000	Wimmers gute Semmelknödel	Emst Handel	
2131	11031	1998-04-17 00:00:00.000	Wimmers gute Semmelknödel	Save-a-lot Markets	
2132	11053	1998-04-27 00:00:00.000	Wimmers gute Semmelknödel	Piccolo und mehr	
2133	11072	1998-05-05 00:00:00.000	Wimmers gute Semmelknödel	Ernst Handel	
2134	11077	1998-05-06 00:00:00.000	Wimmers gute Semmelknödel	Rattlesnake Canyon Grocery	
2135	10332	1996-10-17 00:00:00.000	Zaanse koeken	Mère Paillarde	
2136	10418	1997-01-17 00:00:00.000	Zaanse koeken	QUICK-Stop	
2137	10431	1997-01-30 00:00:00.000	Zaanse koeken	Bottom-Dollar Markets	
2138	10480	1997-03-20 00:00:00.000	Zaanse koeken	Folies gourmandes	
2139	10512	1997-04-21 00:00:00.000	Zaanse koeken	Familia Arquibaldo	
2140	10558	1997-06-04 00:00:00.000	Zaanse koeken	Around the Hom	
2141	10585	1997-07-01 00:00:00.000	Zaanse koeken	Wellington Importadora	
2142	10656	1997-09-04 00:00:00.000	Zaanse koeken	Great Lakes Food Market	
2143	10657	1997-09-04 00:00:00.000	Zaanse koeken	Save-a-lot Markets	
2144	10684	1997-09-26 00:00:00.000	Zaanse koeken	Ottilies Käseladen	
2145	10685	1997-09-29 00:00:00.000	Zaanse koeken	Gournet Lanchonetes	
2146	10699	1997-10-09 00:00:00.000	Zaanse koeken	Morgenstern Gesundkost	
2147	10710	1997-10-20 00:00:00.000	Zaanse koeken	Franchi S.p.A.	
2148	10714	1997-10-22 00:00:00.000	Zaanse koeken	Save-a-lot Markets	
2149	10755	1997-11-26 00:00:00.000	Zaanse koeken	Bon app'	
2150	10762	1997-12-02 00:00:00.000	Zaanse koeken	Folk och fä HB	
2151	10837	1998-01-16 00:00:00.000	Zaanse koeken	Berglunds snabbköp	
2152	10875	1998-02-06 00:00:00.000	Zaanse koeken	Berglunds snabbköp	
2153	10928	1998-03-05 00:00:00.000	Zaanse koeken	Galería del gastrónomo	
2154	10956	1998-03-17 00:00:00.000	Zaanse koeken	Blauer See Delikatessen	
2155	10977	1998-03-26 00:00:00.000	Zaanse koeken	Folk och fä HB	

12. Select all orders having products belonging to 'Seafood' category.

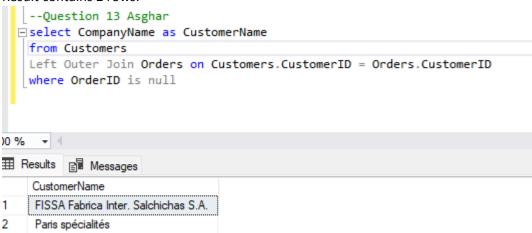
## Databases Lab 7 FALL 2024

Output: OrderID, OrderDate, ProductName, CategoryName. Result contains 330 rows.



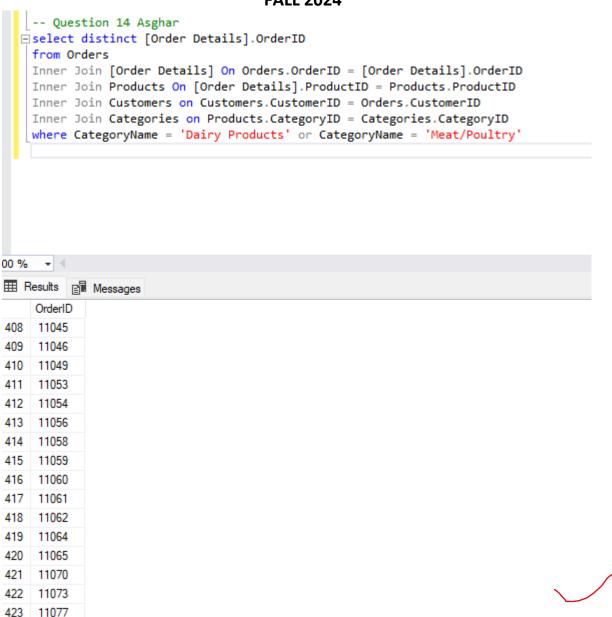
#### 13. Fetch Customers who have not placed any order. Output: CustomerName.

Result contains 2 rows.



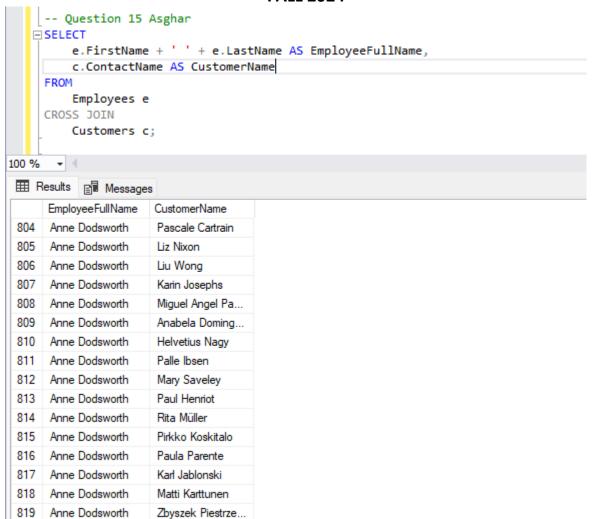
**14.** Select orders that contain products in either 'Meat/Poultry' or 'Dairy Products' categories. **3** Output: (Order ID) Result contains 423 row.

## Databases Lab 7 FALL 2024



15. Find all possible combinations of employees and customer. Output: Employee Full Name, Customer Name. Note: The Full name is generated by concatenating First Name and Last Name. Result contains 819 rows

## Databases Lab 7 FALL 2024



## Databases Lab 7 FALL 2024

#### **ALL OF MY CODE:**

Syed Asghar Abbas Zaidi
Question 1
select count(*)
from Customers
where Fax is null
Question 2
select count(*)
from Orders
where year(OrderDate) = 1997
O vestion 0
Question 3
select count(*)from customers
where ContactTitle = 'Sales Representative'
Question 4 Asghar
select count(*)
from [Order Details]
where OrderID = 11070
Question 5 Asghar
select count(*)
from customers
where country = 'UK' or country = 'USA'
Question 6 Asghar
select sum(UnitsInStock)
from Products
Question 7 Asghar
select sum(UnitsInStock * UnitPrice) as [Total Stock's Value]
from Products
Overting O Apple
Question 8 Asghar
select count(*) as [Employees living in London]
from Employees
where City = 'London'

### Databases Lab 7 FALL 2024

- -- Question 9 Asghar
- --select \*
- --from Employees
- --where TitleOfCourtesy = 'Ms.' or TitleOfCourtesy = 'Mrs.'
- -- Question 10 Asghar
- --select [Order Details].OrderID, OrderDate, ProductName
- --from Orders
- --Inner Join [Order Details] On Orders.OrderID = [Order Details].OrderID
- --Inner Join Products On [Order Details].ProductID = Products.ProductID
- -- Question 11 Asghar
- $\hbox{\it ---select [Order Details].} Order ID, Order Date, Product Name, Customers. Company Name as$

#### CustomerName

- --from Orders
- --Inner Join [Order Details] On Orders.OrderID = [Order Details].OrderID
- --Inner Join Products On [Order Details].ProductID = Products.ProductID
- --Inner Join Customers on Customers.CustomerID = Orders.CustomerID
- -- Question 12 Asghar
- --select [Order Details].OrderID, OrderDate, ProductName, CategoryName
- --from Orders
- --Inner Join [Order Details] On Orders.OrderID = [Order Details].OrderID
- --Inner Join Products On [Order Details].ProductID = Products.ProductID
- --Inner Join Customers on Customers.CustomerID = Orders.CustomerID
- --Inner Join Categories on Products.CategoryID = Categories.CategoryID
- --where CategoryName = 'Seafood'
- -- Question 13 Asghar
- --select CompanyName as CustomerName
- --from Customers
- --Left Outer Join Orders on Customers.CustomerID = Orders.CustomerID
- --where OrderID is null
- -- Question 14 Asghar
- --select distinct [Order Details].OrderID
- --from Orders
- --Inner Join [Order Details] On Orders.OrderID = [Order Details].OrderID
- --Inner Join Products On [Order Details].ProductID = Products.ProductID
- --Inner Join Customers on Customers.CustomerID = Orders.CustomerID

## Databases Lab 7 FALL 2024