

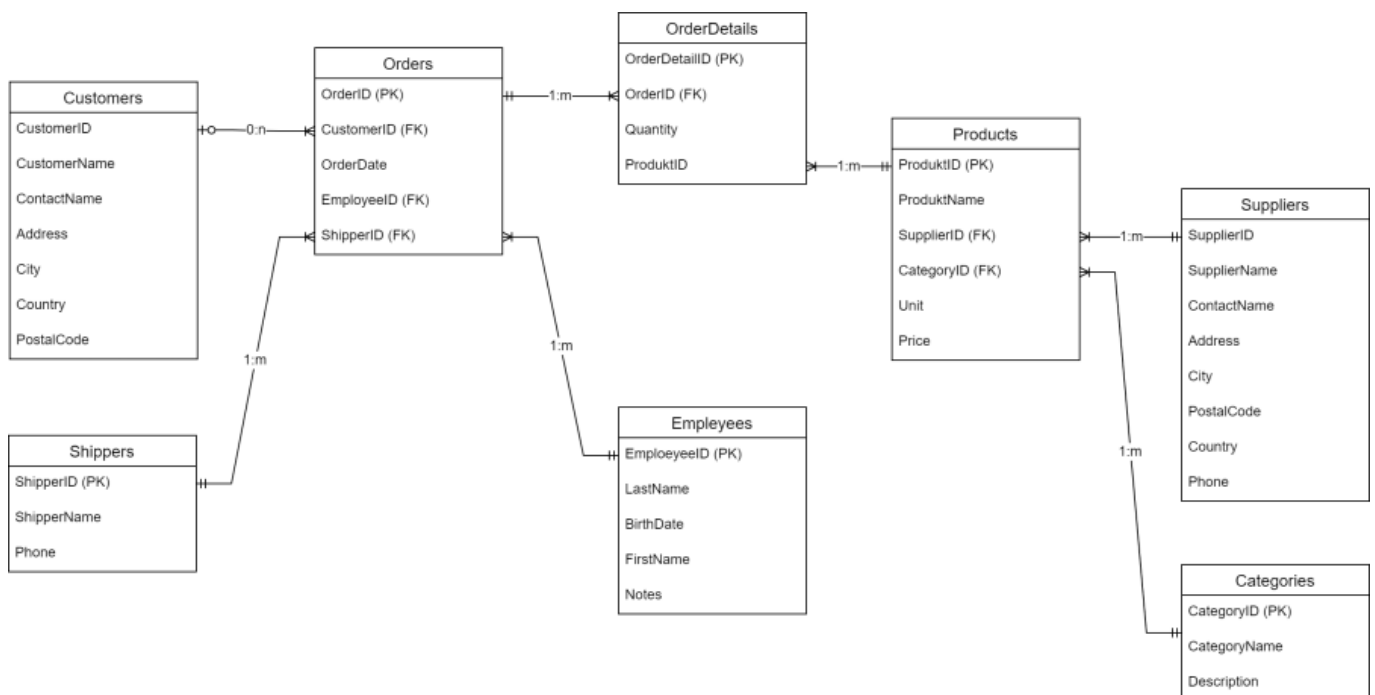
LU04.A02 - SQL-DQL: Select from multiple tables

Requirements

- Work type: individual
- Timeframe: 30 Minutes
- Means of aid:
 - only teaching materials, no websearch, no use of ai.
 - [W3Schools | SQL Editor](#)
- Expected result: Semantically and syntactically correct SQL statements according to the requirements of the case studies.

Case studies / Assignments

The following ERD describes a order database for a a shop.



Assignments

Your general assignment is to develop DQL commands that matches the requirements below:

- a) Supplier and PrWe need a list with product details as following:
 - Supplier name
 - Supplier phone
 - ProductID

- ProductName
- Units
- Price
- Ordered by SupplierName descending

```
SELECT s.SupplierName, s.SupplierID, s.phone, p.ProductID, p.ProductName,
p.Unit, p.Price
FROM Suppliers s, Products p
WHERE p.SupplierID = s.SupplierID
ORDER BY s.SupplierName DESC;
```

- b) Extend the select, so that the list contains only have the products of the supplier „Leka Trading“ on our list.
 - There are two possible solutions.
 - b1) The first one is to search for the ID (SupplierID = 20) of the supplier and take that ID into our SELECT as follows:

```
SELECT s.SupplierName, s.SupplierID, s.phone, p.ProductID, p.ProductName,
p.Unit, p.Price
FROM Suppliers s, Products p
WHERE p.SupplierID = s.SupplierID
AND s.SupplierID = 20;
```

- b2) The second solution take the name directly into the SELECT statemeng:

```
SELECT s.SupplierName, s.SupplierID, s.phone, p.ProductID, p.ProductName,
p.Unit, p.Price
FROM Suppliers s, Products p
WHERE p.SupplierID = s.SupplierID
AND s.SupplierName = 'Leka Trading';
```

The result set is in both cases, as the figure below shows:

```
SELECT s.SupplierName, s.SupplierID, s.phone, p.ProductID, p.ProductName, p.Unit, p.Price
FROM Suppliers s, Products p
WHERE p.SupplierID = s.SupplierID
AND s.SupplierID = 20;
```

Edit the SQL Statement, and click "Run SQL" to see the result.

[Run SQL >](#)

Result:

Number of Records: 3

SupplierName	SupplierID	phone	ProductID	ProductName	Unit	Price
Leka Trading	20	555-8787	42	Singaporean Hokkien Fried Mee	32 - 1 kg pkgs.	14
Leka Trading	20	555-8787	43	IpoH Coffee	16 - 500 g tins	46
Leka Trading	20	555-8787	44	Gula Malacca	20 - 2 kg bags	19.45

* c) We would like to know what products the customer "Hanari Carnes" has

ordered in the past. Sort the list by the quantity.

* In detail we require the following data: CustomerID, CustomerName, OrderID, OrderDate, Quantity, ProductName, CategoryName

- c1) Like in assignment b) here a two approaches possible: 1. find the customerID (34) and select according to the customer id.

```
select c.CustomerID, c.CustomerName , o.OrderID, o.orderDate, od.Quantity,
p.ProductName, ct.CategoryName
FROM customers c, orders o, OrderDetails od, Products p, Categories ct
WHERE c.CustomerID = o.CustomerID
AND o.OrderID = od.OrderID
AND od.ProductID = p.ProductID
AND p.CategoryID = ct.CategoryID
AND c.CustomerID = 34
ORDER BY od.Quantity;
```

- C1) The second approach, as in b2), is to filter the result set directly by customer name.

```
select c.CustomerID, c.CustomerName , o.OrderID, o.orderDate, od.Quantity,
p.ProductName, ct.CategoryName
FROM customers c, orders o, OrderDetails od, Products p, Categories ct
WHERE c.CustomerID = o.CustomerID
AND o.OrderID = od.OrderID
AND od.ProductID = p.ProductID
AND p.CategoryID = ct.CategoryID
AND c.CustomerName = "Hanari Kanés"
ORDER BY od.Quantity;
```

The result set is in both cases as shown in the following figure.

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Solution

[Lösung](#)

Vocabulary

English	German
respectively	beziehungsweise
assignment	Auftrag



Volkan Demir

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