

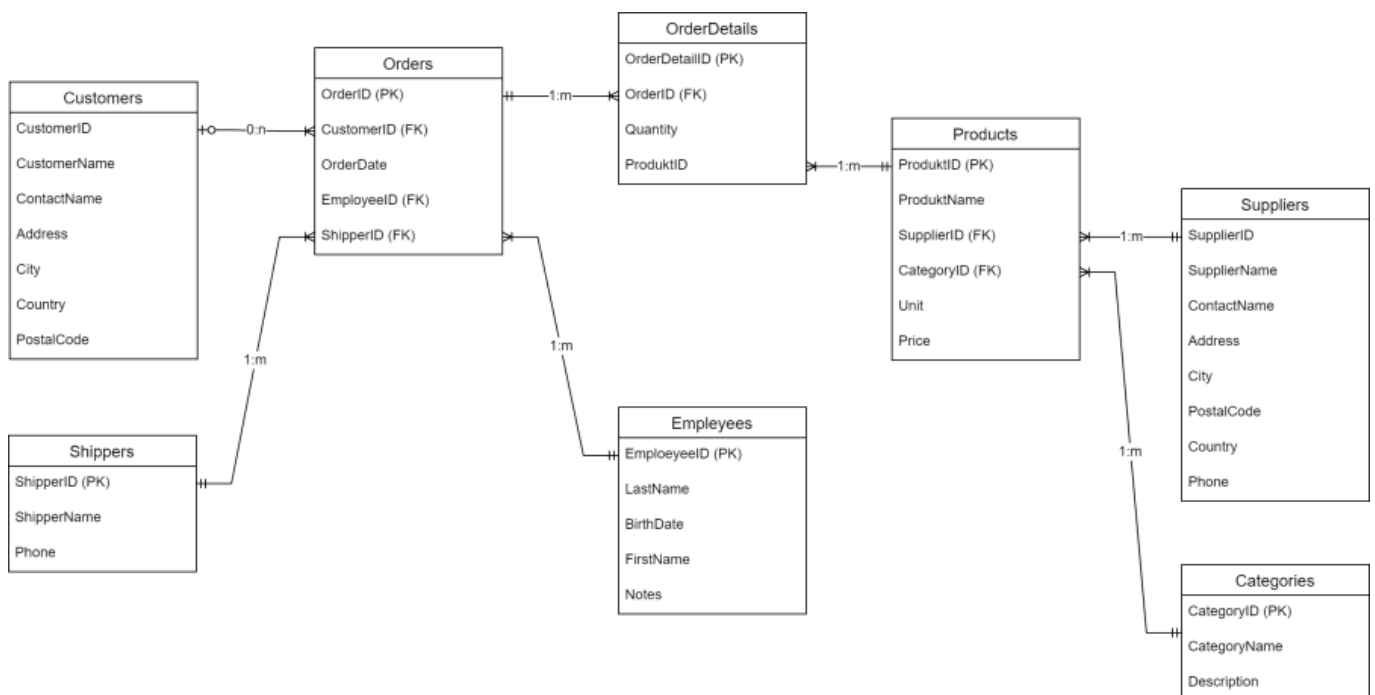
LU04.A02 - SQL-DQL: Select from multiple tables

Requirements

- Work type: individual
- Timeframe: 20 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 match the requirements below:

- a) We 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;
```

```
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;
```

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

Run SQL >

Result:

Number of Records: 77

| SupplierName | SupplierID | phone | ProductID | ProductName | Unit | Price |
|---------------------|------------|----------------|-----------|-----------------|------------------|-------|
| Zaanse Snoepfabriek | 22 | (12345) 1212 | 48 | Chocolade | 10 pkgs. | 12.75 |
| Zaanse Snoepfabriek | 22 | (12345) 1212 | 47 | Zaanse koeken | 10 - 4 oz boxes | 9.5 |
| Tokyo Traders | 4 | (03) 3555-5011 | 9 | Mishi Kobe Niku | 18 - 500 g pkgs. | 97 |
| Tokyo Traders | 4 | (03) 3555-5011 | 74 | Longlife Tofu | 5 kg pkg. | 10 |
| Tokyo Traders | 4 | (03) 3555-5011 | 10 | Ikura | 12 - 200 ml jars | 31 |

- b) Extend the select, so that the list contains only have the products of the supplier „Karrki OY“ on our list.

There are two possible solutions. 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;
```

```

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 |

Solution

Lösung

Vocabulary

| English | German |
|--------------|-----------------|
| respectively | beziehungsweise |
| assignment | Auftrag |



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Last update: **2024/09/03 13:43**

