

C4- S2-PRACTICE

What you will know:

Combining data from multiple tables using **JOINS**

This exercise is based on given ONLINE database:

https://www.w3schools.com/sql/trysql.asp?filename=trysql_select_where-

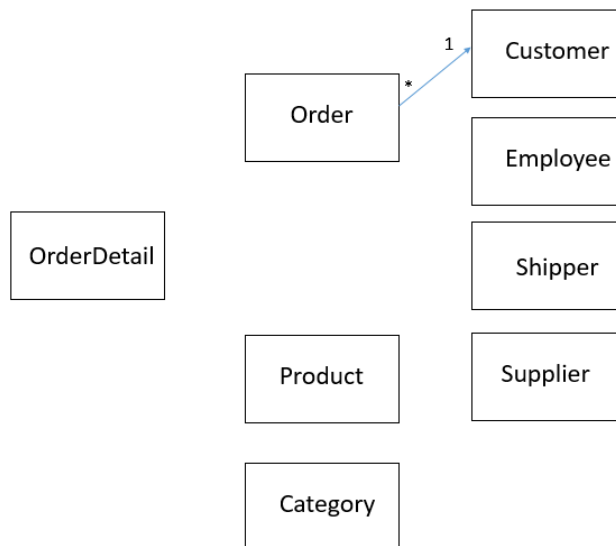
- ✓ Test your queries on the online editor
- ✓ Copy / paste your answer for each question on this document

Q1

Open the **power point** to edit the database ERD.

- ✓ Complete the ERD with the missing relationships between this database

n the 8 tables of



For now only the relation between Order and Customer table is defined

Q2

Write the query to display for each order ID, the name of the customer

As example:

OrderID	CustomerName
10248	Wilman Kala
10249	Tradição Hipermercados
10250	Hanari Carnes
10251	Victuailles en stock
10252	Suprêmes délices

Your answer:

```
select orderID,Customers.CustomerName from (orders inner JOIN Customers) on orders.CustomerID=Customers.CustomerID;
```

Q3

Write the query to display for each **product**, the name of the **supplier**

As example:

ProductName	SupplierName
Chais	Exotic Liquid
Chang	Exotic Liquid
Aniseed Syrup	Exotic Liquid

Your answer:

```
select products.productName, suppliers.supplierName from products inner join suppliers on products.supplierID=suppliers.supplierID;
```

Q4

Write the query to display for each **order**, the name of the **customer** and the name of the **supplier**

As example:

OrderID	Customer name	Shipper name
10248	Wilman Kala	Federal Shipping
10249	Tradição Hipermercados	Speedy Express
10250	Hanari Carnes	United Package
10251	Victuailles en stock	Speedy Express

Your answer:

```
SELECT customerName,orderID, shipperName FROM Orders left join Customers on  
Orders.CustomerID=Customers.CustomerID left join Shippers on  
Orders.ShipperID=Shippers.ShipperID;
```

Q5

Write the query to display the number of orders sent by each shipper:

As example:

ShipperName	NumberOfOrders
Federal Shipping	255
Speedy Express	249
United Package	326

Your answer:

```
SELECT ShipperName,OrderID as " Number of Order" FROM Orders inner join  
Shippers ON Orders.ShipperID=Shippers.ShipperID;
```

Q6

Write the query to display the name of products related to **an orderDetail with a quantity of 120 or more**.

Tips: you should find 9 products (see below)!

Expected result of the query

ProductName
Pâté chinois

Your answer:

```
select productName from OrderDetails inner join products on  
orderDetails.productID=products.productID where orderDetails.quantity>=120;
```

Q7

Write the query to display all products whose **supplier is coming from USA**

Example of result

ProductName
Chef Anton's Cajun Seasoning
Chef Anton's Gumbo Mix
Grandma's Boysenberry Spread
Uncle Bob's Organic Dried Pears
Northwoods Cranberry Sauce
Sasquatch Ale

Your answer:

```
SELECT ProductName FROM Products inner join suppliers on products.supplierID=suppliers.supplierID
where suppliers.country='USA';
```