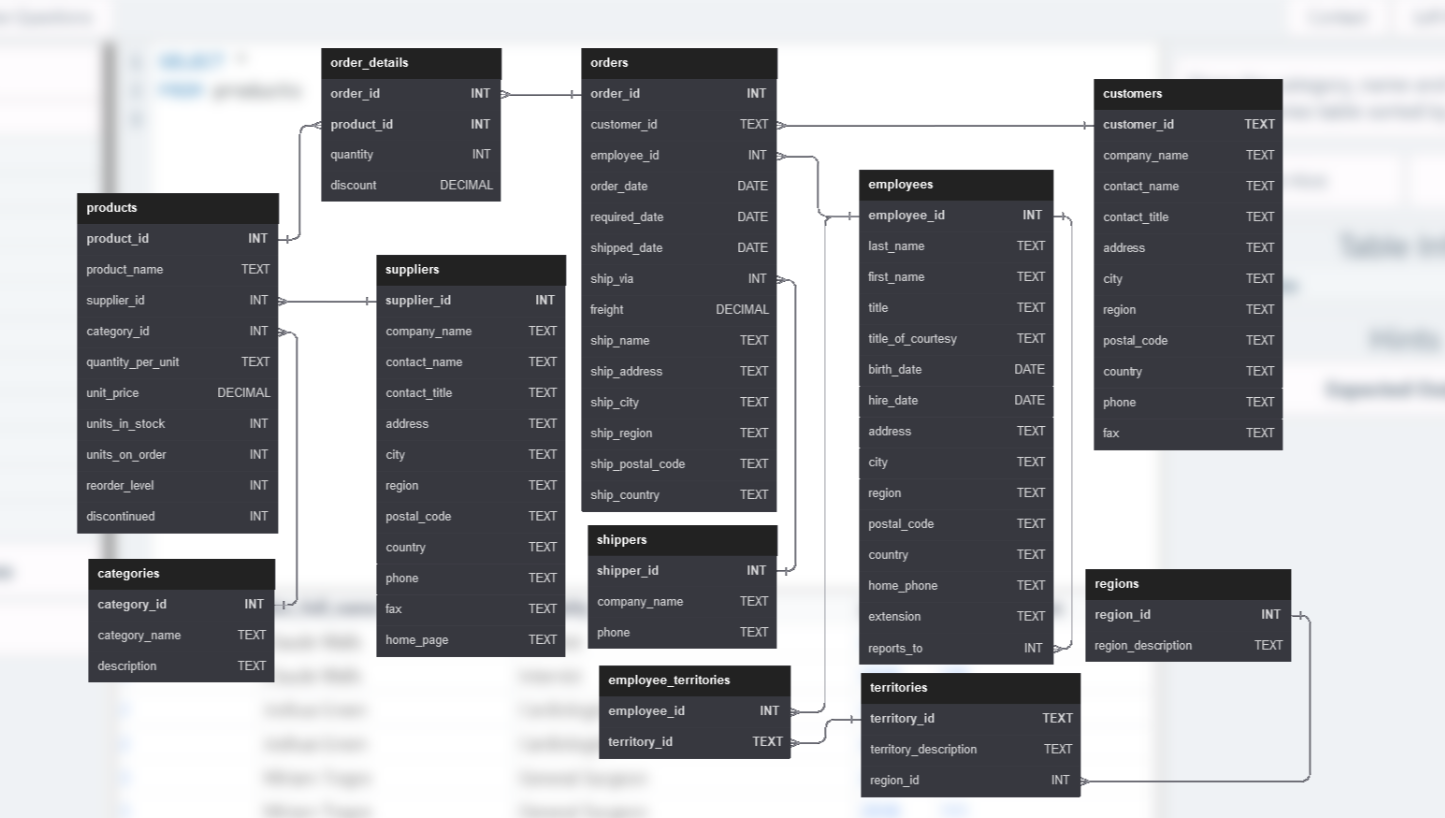
NORTHWIND SCHEMA:



EASY QUESTIONS:

1. **Show the category\_name and description from the categories table sorted by category\_name.**

* SELECT category\_name,description

FROM categories

order by category\_name;

1. **Show all the contact\_name, address, city of all customers which are not from 'Germany', 'Mexico', 'Spain'**

* SELECT contact\_name, address,city

FROM customers

WHERE

country not in ('Germany', 'Mexico', 'Spain');

1. **Show order\_date, shipped\_date, customer\_id, Freight of all orders placed on 2018 Feb 26**

* SELECT order\_date, shipped\_date, customer\_id, freight

from orders

where order\_date ='2018-02-26';

1. **Show the employee\_id, order\_id, customer\_id, required\_date, shipped\_date from all orders shipped later than the required date**

* SELECT employee\_id, order\_id, customer\_id, required\_date, shipped\_date

from orders

where shipped\_date > required\_date;

1. **Show all the even numbered Order\_id from the orders table**

* SELECt order\_id

from orders

where order\_id % 2 = 0;

1. **Show the city, company\_name, contact\_name of all customers from cities which contains the letter 'L' in the city name, sorted by contact\_name**

* SELECt city, company\_name, contact\_name

from customers

where city like '%L%'

order by contact\_name;

1. **Show the company\_name, contact\_name, fax number of all customers that has a fax number. (not null)**

* SELECt company\_name, contact\_name, fax

from customers

where fax IS NOT null;

1. **Show the first\_name, last\_name. hire\_date of the most recently hired employee.**

* SELECt first\_name, last\_name, hire\_date

from employees

where hire\_date IN (select max(hire\_date) from employees);

OR

* SELECt first\_name, last\_name, max(hire\_date) as hire\_date

from employees;

1. **Show the average unit price rounded to 2 decimal places, the total units in stock, total discontinued products from the products table.**

* SELECt round(avg(unit\_price),2) as avg\_unit\_price,

sum(units\_in\_stock) as total\_units\_in\_stock,

sum(discontinued) as total\_discontinued\_products

from products;

MEDIUM QUESTIONS:

1. **Show the ProductName, CompanyName, CategoryName from the products, suppliers, and categories table**

* SELECt p.product\_name, s.company\_name, ca.category\_name

from products p join categories ca

on p.category\_id=ca.category\_id

join suppliers s

on p.supplier\_id=s.supplier\_id;

1. **Show the category\_name and the average product unit price for each category rounded to 2 decimal places.**

* SELECt c.category\_name,

round(avg(p.unit\_price),2) as avg\_prod\_unit\_price

from products p join categories c

on p.category\_id=c.category\_id

group by c.category\_name;

1. **Show the city, company\_name, contact\_name from the customers and suppliers table merged together.  
   Create a column which contains 'customers' or 'suppliers' depending on the table it came from.**

* SELECt city, company\_name, contact\_name, 'customers' as tablename from customers

union

select city, company\_name, contact\_name, 'suppliers' as tablename from suppliers;

HARD QUESTIONS:

1. **Show the employee's first\_name and last\_name, a "num\_orders" column with a count of the orders taken, and a column called "Shipped" that displays "On Time" if the order shipped\_date is less or equal to the required\_date, "Late" if the order shipped late.  
     
   Order by employee last\_name, then by first\_name, and then descending by number of orders.**

* SELECt e.first\_name, e.last\_name,

count(o.order\_id) as num\_orders,

(case

when o.shipped\_date <= o.required\_date then 'On Time'

else 'Late'

end) as shipped

from employees e join orders o

on e.employee\_id=o.employee\_id

group by o.employee\_id,shipped

order by e.last\_name, e.first\_name,num\_orders desc;

1. **Show how much money the company lost due to giving discounts each year, order the years from most recent to least recent. Round to 2 decimal places.**

* SELECt year(order\_date),

round(SUM(p.unit\_price\*od.quantity\*od.discount),2) as money\_lost

from order\_details od join orders o

on od.order\_id=o.order\_id

join products p

on od.product\_id=p.product\_id

group by year(order\_date)

order by year(order\_date) desc;