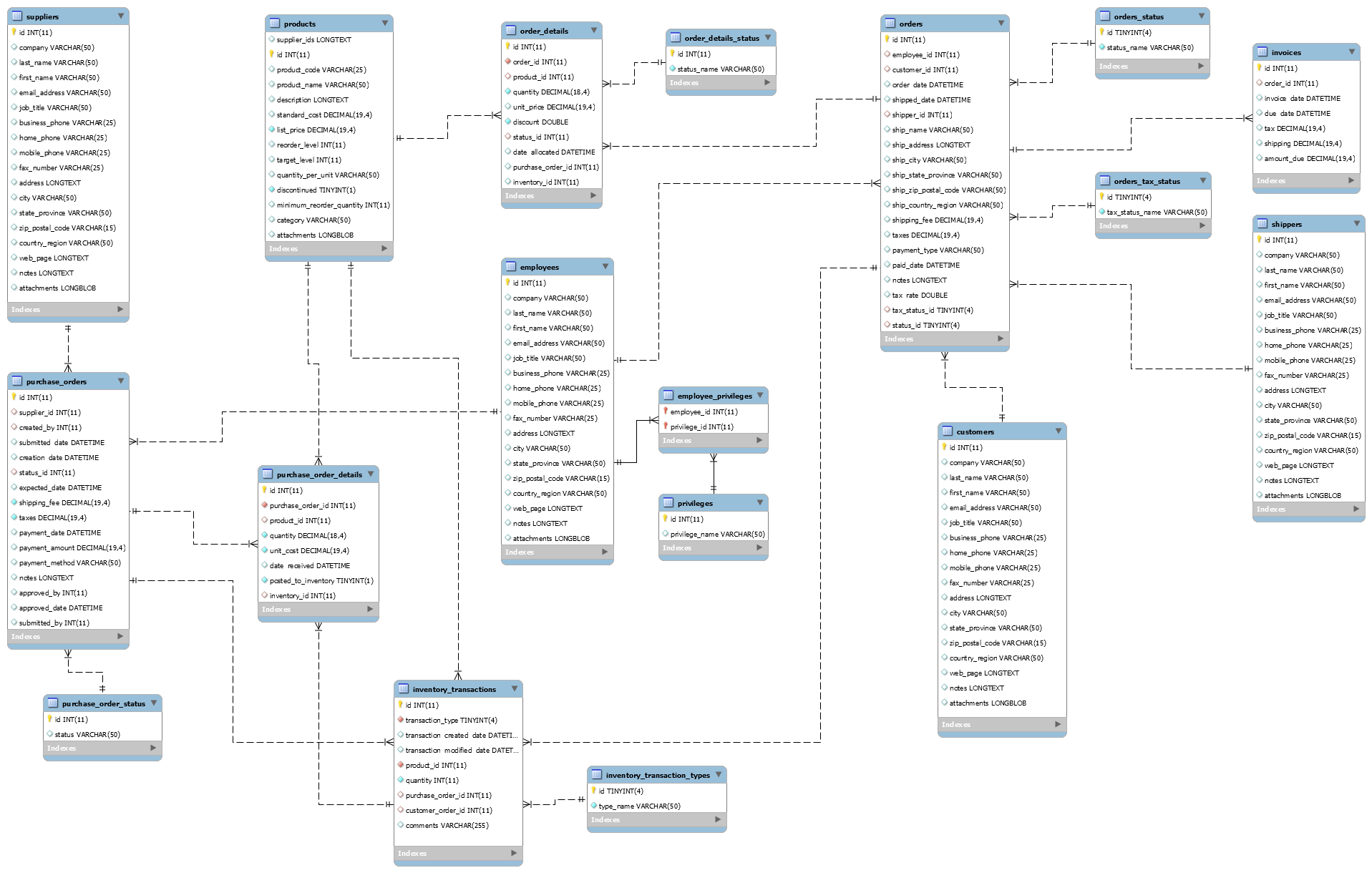
1. Make a list of functionalizes of the database (and software) for Northwind

A list of functionalities of the database Northwind:

* Suppliers: Suppliers and vendors of Northwind
* Customers: Customers who buy products from Northwind
* Employees: Employee details of Northwind traders
* Products: Product information
* Shippers: The details of the shippers who ship the products from the traders to the end-customers
* Orders and Order\_Details: Sales Order transactions taking place between the customers & the company

1. Draw the ER diagram for Northwind database



1. Convert ER diagram to a database schema and compare it with the model database of Northwind

customers(id, company, last\_name, first\_name, email\_address, job\_title, business\_phone, home\_phone, mobile\_phone, fax\_number, address, city, state\_province, zip\_postal\_code, country\_region, web\_page, notes, attachments)

employee\_privileges(employee\_id, privilege\_id)

employees(id, company, last\_name, first\_name, email\_address, job\_title, business\_phone, home\_phone, mobile\_phone, fax\_number, address, city, state\_province, zip\_postal\_code, country\_region, web\_page, notes, attachments)

inventory\_transaction\_types (id, type\_name)

inventory\_transactions(id, transaction\_type, transaction\_created\_date, transaction\_modified\_date, product\_id, quantity, purchase\_order\_id, customer\_order\_id, comments)

invoices(id, order\_id, invoice\_date, due\_date, tax, shipping, amount\_due)

order\_details(id, order\_id, product\_id, quantity, unit\_price, discount, status\_id, date\_allocated, purchase\_order\_id, inventory\_id)

order\_details\_status(id, status\_name)

orders(id, employee\_id, customer\_id, order\_date, shipped\_date, shipper\_id, ship\_name, ship\_address, ship\_city, ship\_state\_province, ship\_zip\_postal\_code, ship\_country\_region, shipping\_fee, taxes, payment\_type, paid\_date, notes, tax\_rate, tax\_status\_id, status\_id)

orders\_status(id, status\_name)

orders\_tax\_status(id, tax\_status\_name)

privileges(id, privilege\_name)

products(supplier\_ids, id, product\_code, product\_name, description, standard\_cost, list\_price, reorder\_level, target\_level, quantity\_per\_unit, discontinued, minimum\_reorder\_quantity, category, attachments)

purchase\_order\_details(id, purchase\_order\_id, product\_id, quantity, unit\_cost, date\_received, posted\_to\_inventory, inventory\_id)

purchase\_order\_status(id, status)

purchase\_orders(id, supplier\_id, created\_by, submitted\_date, creation\_date, status\_id, expected\_date, shipping\_fee, taxes, payment\_date, payment\_amount, payment\_method, notes, approved\_by, approved\_date, submitted\_by)

sales\_reports(display, title, filter\_row\_source, default)

shippers(id, company, last\_name, first\_name, email\_address, job\_title, business\_phone, home\_phone, mobile\_phone, fax\_number, address, city, state\_province, zip\_postal\_code, country\_region, web\_page, notes, attachments)

strings(string\_id, string\_data)

suppliers(id, company, last\_name, first\_name, email\_address, job\_title, business\_phone, home\_phone, mobile\_phone, fax\_number, address, city, state\_province, zip\_postal\_code, country\_region, web\_page, notes, attachments)