



## **EPL342 –Databases**

### **Lab 7**

# **Use Case Scenario Northwind Database**

<http://www.cs.ucy.ac.cy/courses/EPL342>



# Before We Begin

- Start the SQL Server Management Studio
  - Start →
    - All Programs →
      - Microsoft SQL Server →
        - SQL Server Management Studio

**Server: APOLLO**

**Authentication: SQL Server Authentication**

**Username: <your username>**

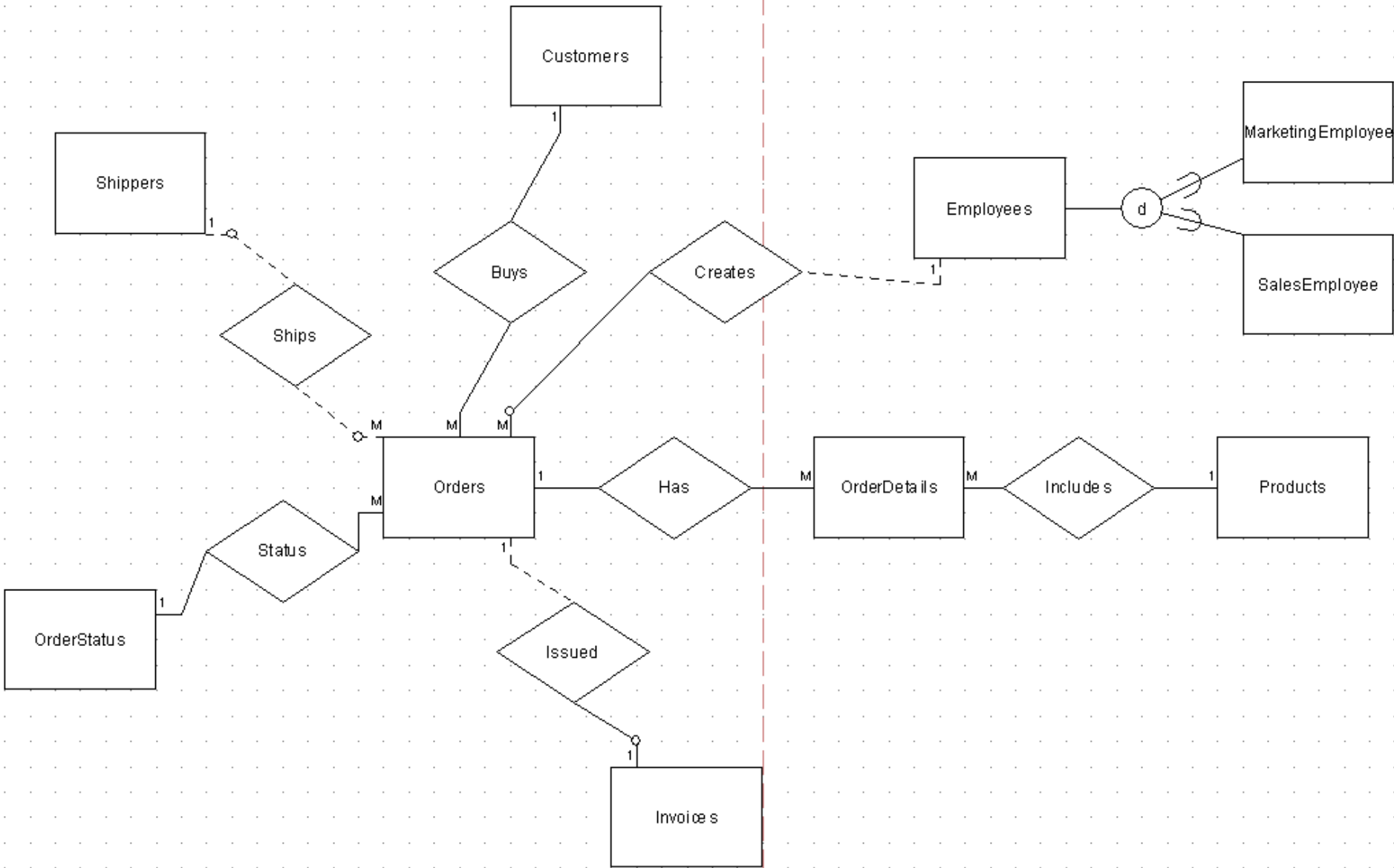
**Password: <your password>**



# Northwind Database

- Northwind is a popular database used by SQL Server 2000 for tutorials
- Northwind is a company that creates orders for customers and then ships these orders with shipping companies.
- In this Lab 7 we provide you with the ER model of the Northwind database and you must create the corresponding database schema.

# NORTHWIND Database ERD





# Step 1: Create Schema

- Create the schema based on the provided ERD model
- Add the following information to your schema:
  - **Orders:** OrderDate, ShippedDate, Shipped Address, Notes
  - **Employees:** Name, Phone, Email, Salary, Manager (boolean)
  - **Customers:** Name, Phone, Address
  - **Order Details:** Quantity, Price, Amount, Discount, Total
  - **Shippers:** Name, Address
  - **Products:** Name, Category
  - **MarketingEmployee:** Research
  - **SalesEmployee:** Quota
- Select the appropriate data types for each column



# Step 2: Add Constraints

- Add the following constraints to your schema:
  - **Orders:** OrderDate [=current date]
  - **Employees:** Name [Length>1], Salary[Normal:>0 and <=2000, Manager: >2000 and <=5000]
  - **Customers:** Name [Unique], Phone [Length>1]
  - **Order Details:** Quantity [>0], Price[>0.0]
  - **Shippers:** Name [Unique], Address
  - **Products:** Name [Length>5], Category [Soft Drinks, Beer, Milk, Water]