# 1.264 Recitation 9/26-27

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# Overview

- Announcements
- UML Lecture Exercises
- Data Models Using Visual Paradigm
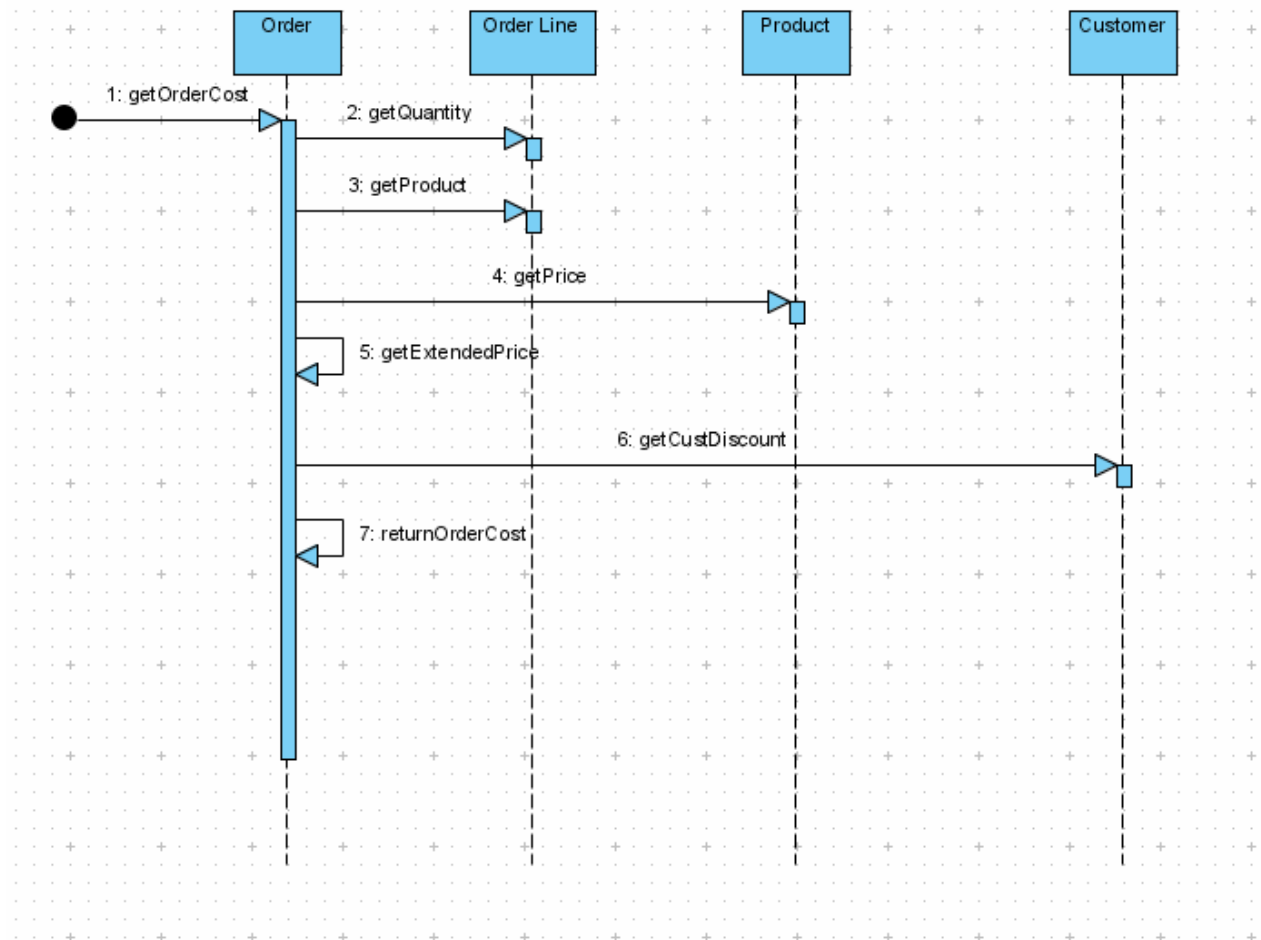- Dreamweaver and IIS
- Homework 3 Questions

# Announcements

- Make sure you are checked off for SQL Server
- Get checked off for Dreamweaver and IIS by next week

# UML Lecture Exercises

- Sequence Diagram Example
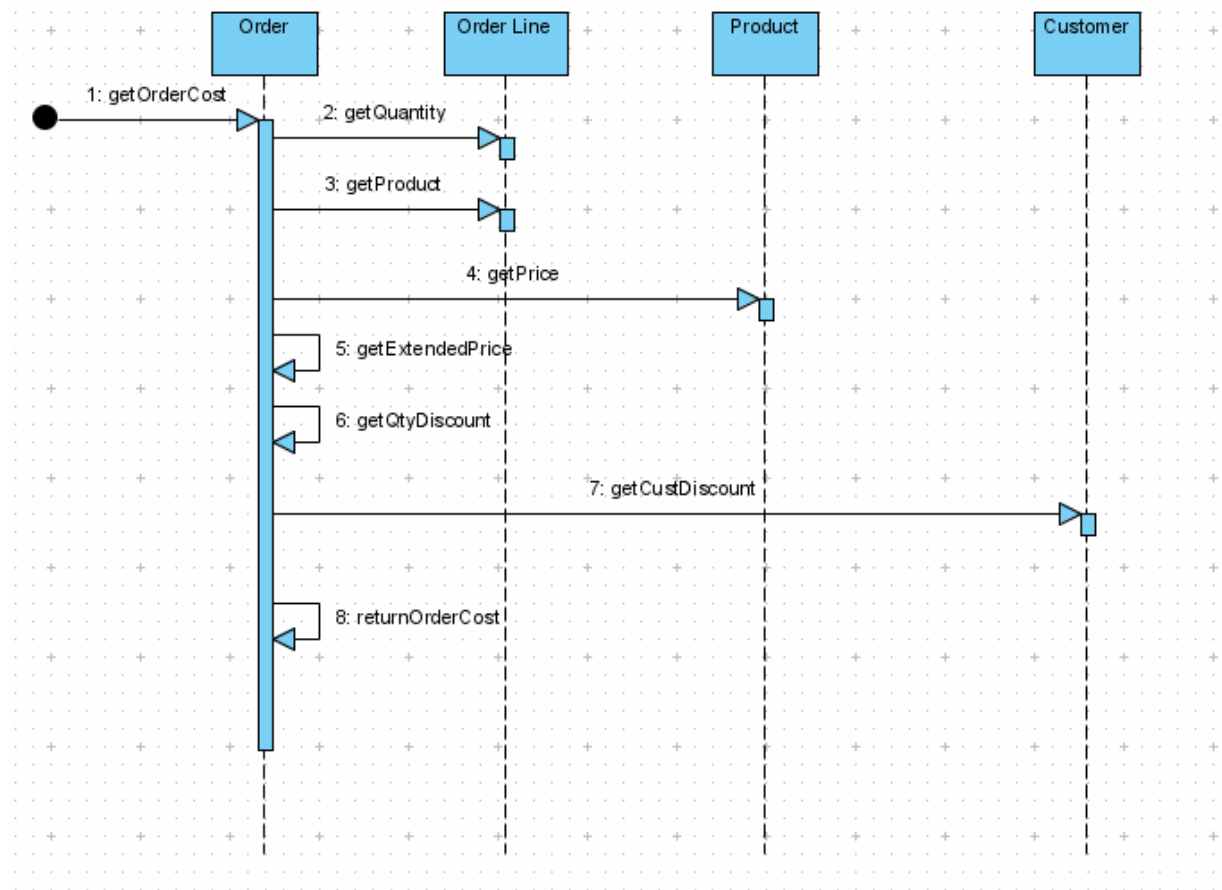- Activity Diagram Example

# Sequence diagram example

# Sequence diagram exercise

- **Add a discount calculation based on the total order quantity, in addition to the customer discount**
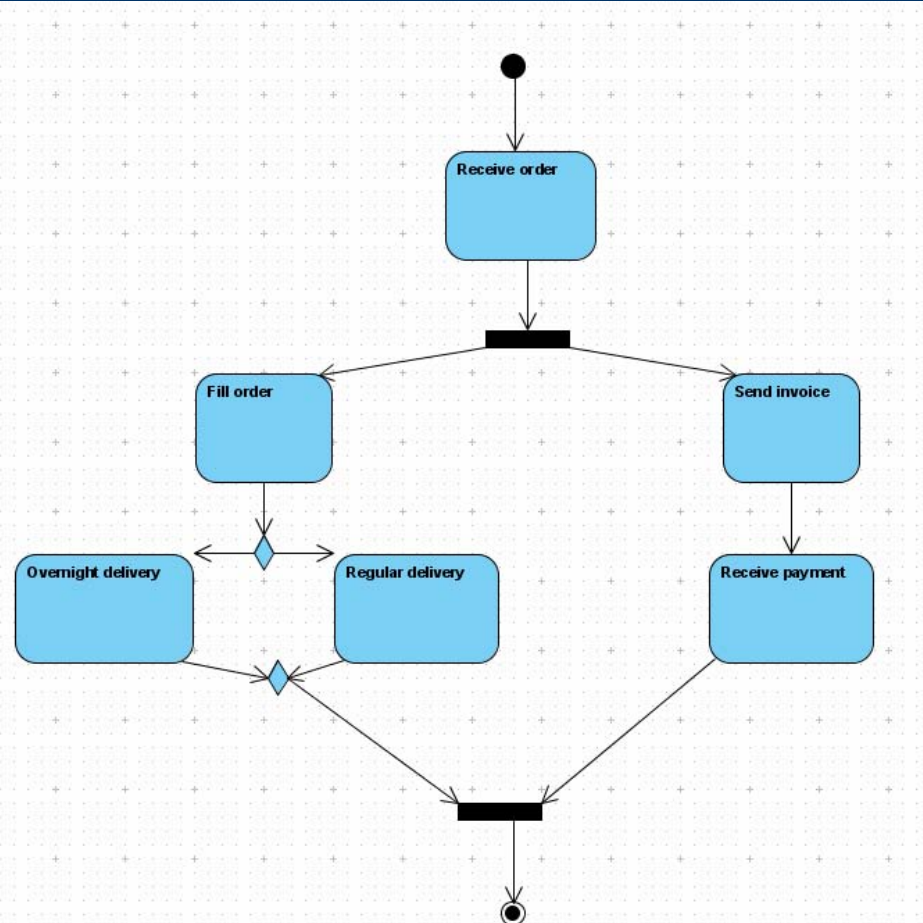
# Sequence diagram solution

# Activity diagram

- **Shows flow of messages, logic, actions**
- **This is at a much higher level of abstraction than flow charts**
  - **Flow charts show logic for single method (if statements, loops, etc.)**
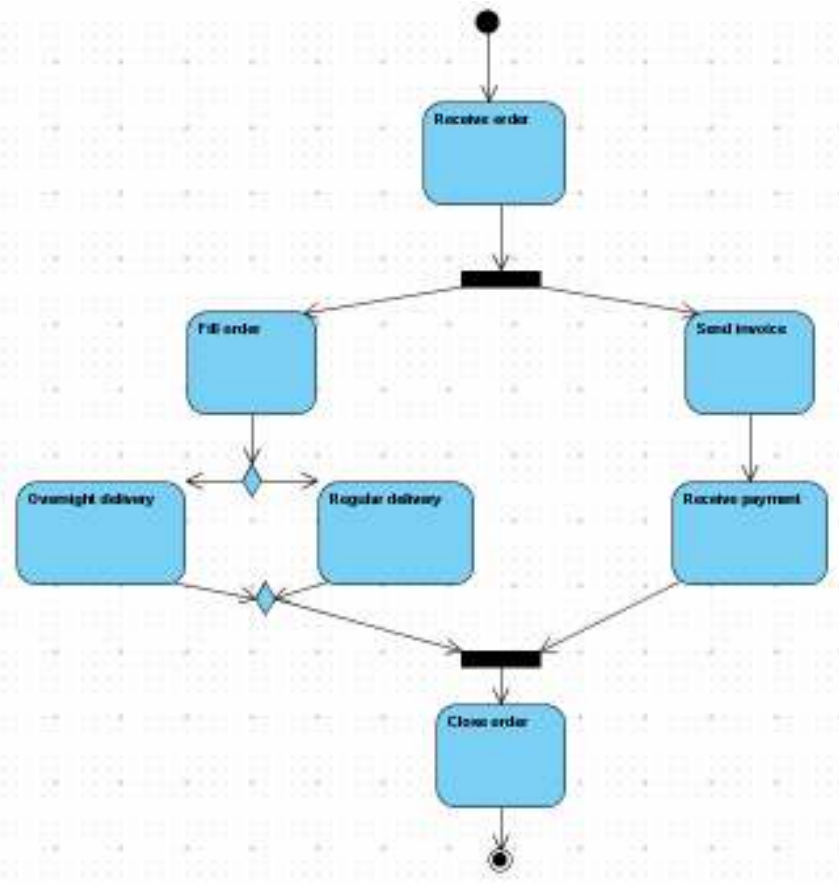  - **Activity diagrams show flow among objects**

# Activity diagram example

# Activity diagram exercise
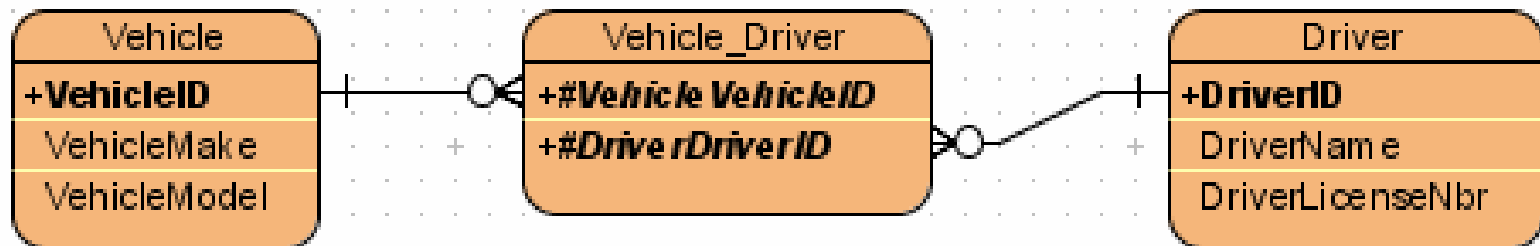
- **Add a 'close order' activity**

# Activity diagram solution

# Data Models and Visual Paradigm

- Create a new Entity Relationship Diagram
- Add entities by clicking on Entity in the Entity Relationship panel and then on the workspace
- Add attributes to entities by right-clicking on the entity and then choosing New Column
- Make an attribute a primary key by right-clicking on the attribute and choosing Open Specification, then check "include in primary key"
- Create a one-to-many relationship between two entities by clicking on one-to-many in the Entity Relationship panel, and dragging mouse from primary key entity to foreign key entity… the foreign key attribute in the second entity will be created automatically

# Many-to-many relationships with foreign keys

| Vehicle |
|---|
| **+VehicleID** |
| VehicleMake |
| VehicleModel |

| Vehicle_Driver |
|---|
| **+#Vehicle VehicleID** |
| **+#Driver DriverID** |

| Driver |
|---|
| **+DriverID** |
| DriverName |
| DriverLicenseNbr |

# Software Installation

- Dreamweaver
  - Install from CD, follow installation instructions
- Internet Information Services (IIS)
  - Hit the "Start" button and select the "Control Panel" Double-click the "Add/Remove
  - Programs" icon and a new window will open.
  - Along the left, click the button marked "Add/Remove Windows Components." On the
  - screen that appears, select the "Internet Information Services" option (and feel free to
  - deselect any others you don't want) and click "Install" to begin the installation.
  - CAVEAT – For some people, this will require your original Windows XP CD in order to
  - install. If this turns out to be the case, let us know and we will do what we can to help.
  - Once installed, you'll want to confirm that IIS is indeed installed.
  - To do so, go to Start>Control Panel>Administrative Tools>Services, look in the list for
  - an item called "Internet Information Services." This screen is what you will use to start
  - and stop IIS as well.