

~~Client Server Development: Visual Basic~~

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Q+E Software

Client Server

Fact?

Fiction?

“Doing a Ditty”; A Useful Metaphor

How is Client/Server Like Teenage Sex?

It's on everyone's mind all the time.

Everyone thinks everyone else is doing it.

Almost no one is really doing it.

The few who are doing it are

- Doing it poorly;

- sure it will be better next time;

- not practicing it safely.

Everyone is bragging about their successes even though few have actually been successful.

Getting Started

Plan

Design

Start Small

Document Expectations

Test & Review

Before You Code

Decision Factors

Before You Code

Decision Factors

Application

Before You Code

Decision Factors

Application

Database Choice

Before You Code

Decision Factors

Application

Database Choice

Database Access Choice

Before You Code

Decision Factors

Application

Database Choice

Database Access Choice

VB “Gotchas”

Connecting to the Server

VB “Gotchas”

**Connecting to the Server
Network Resources**

VB “Gotchas”

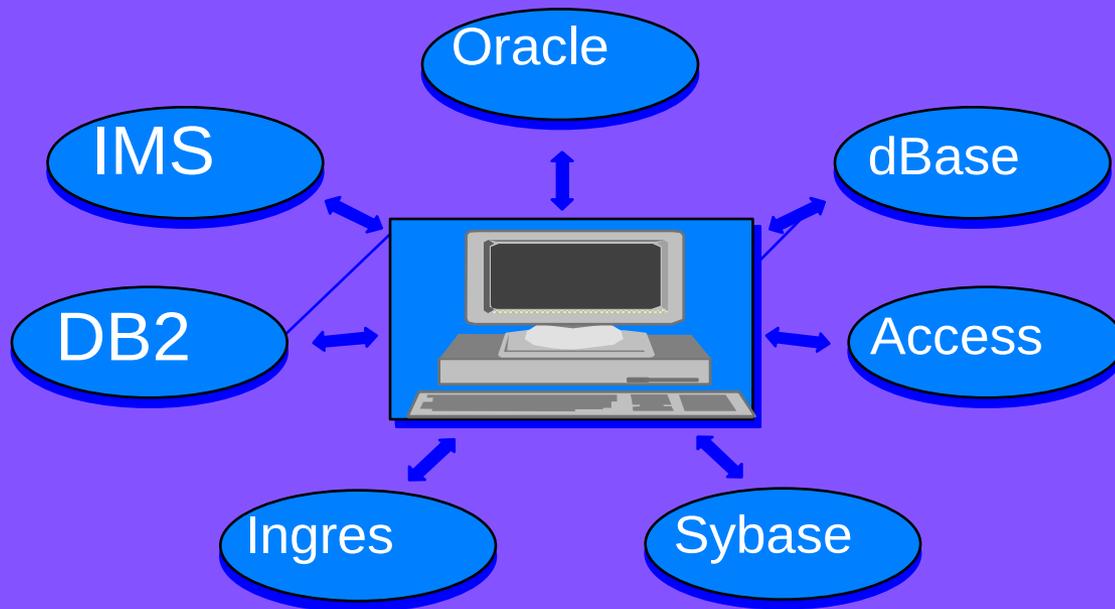
Connecting to the Server

Network Resources

Transaction Processing

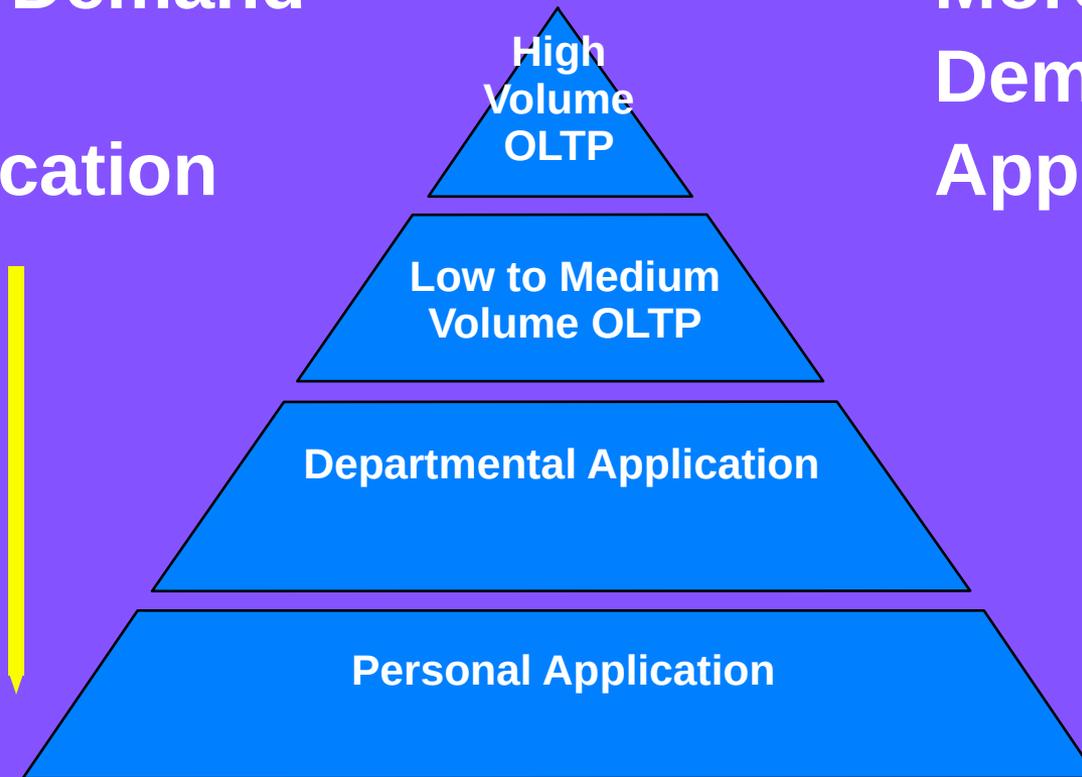
Database Choice

How many DBMS does your organization have
What type are they?



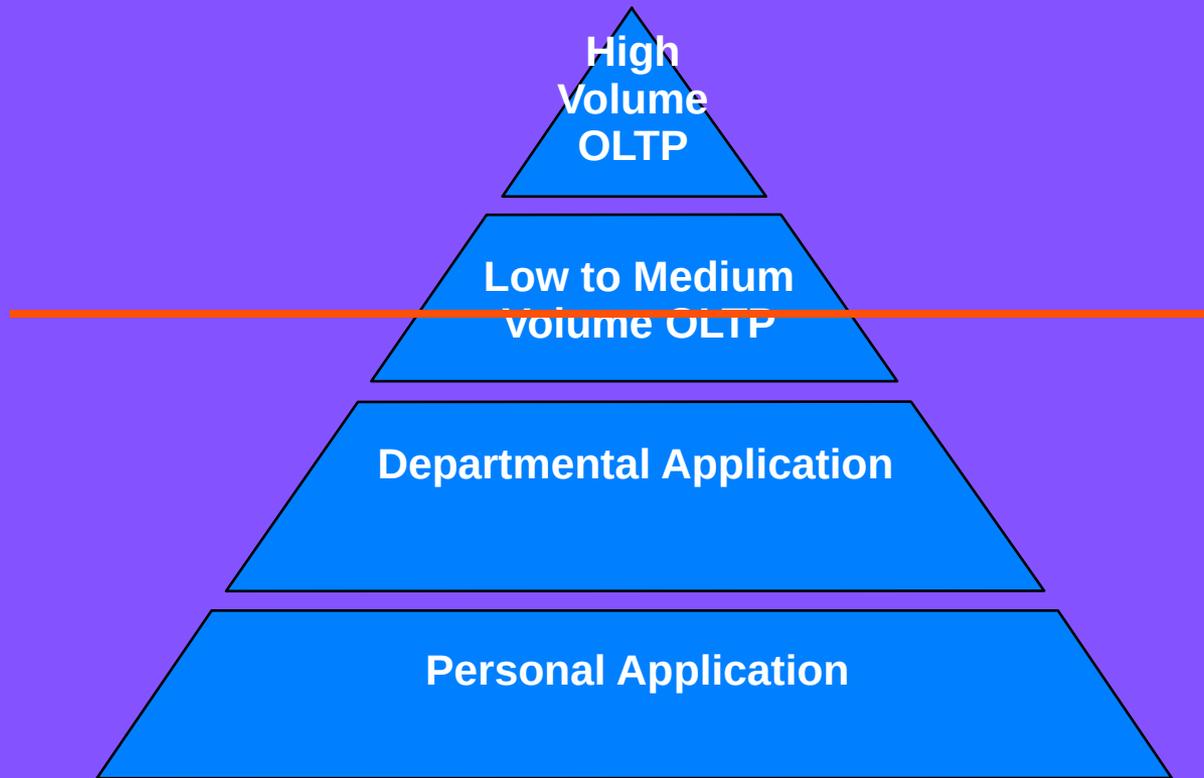
Application

More Demand
for
Application



More
Demanding
Application

Application



Database Access Choices

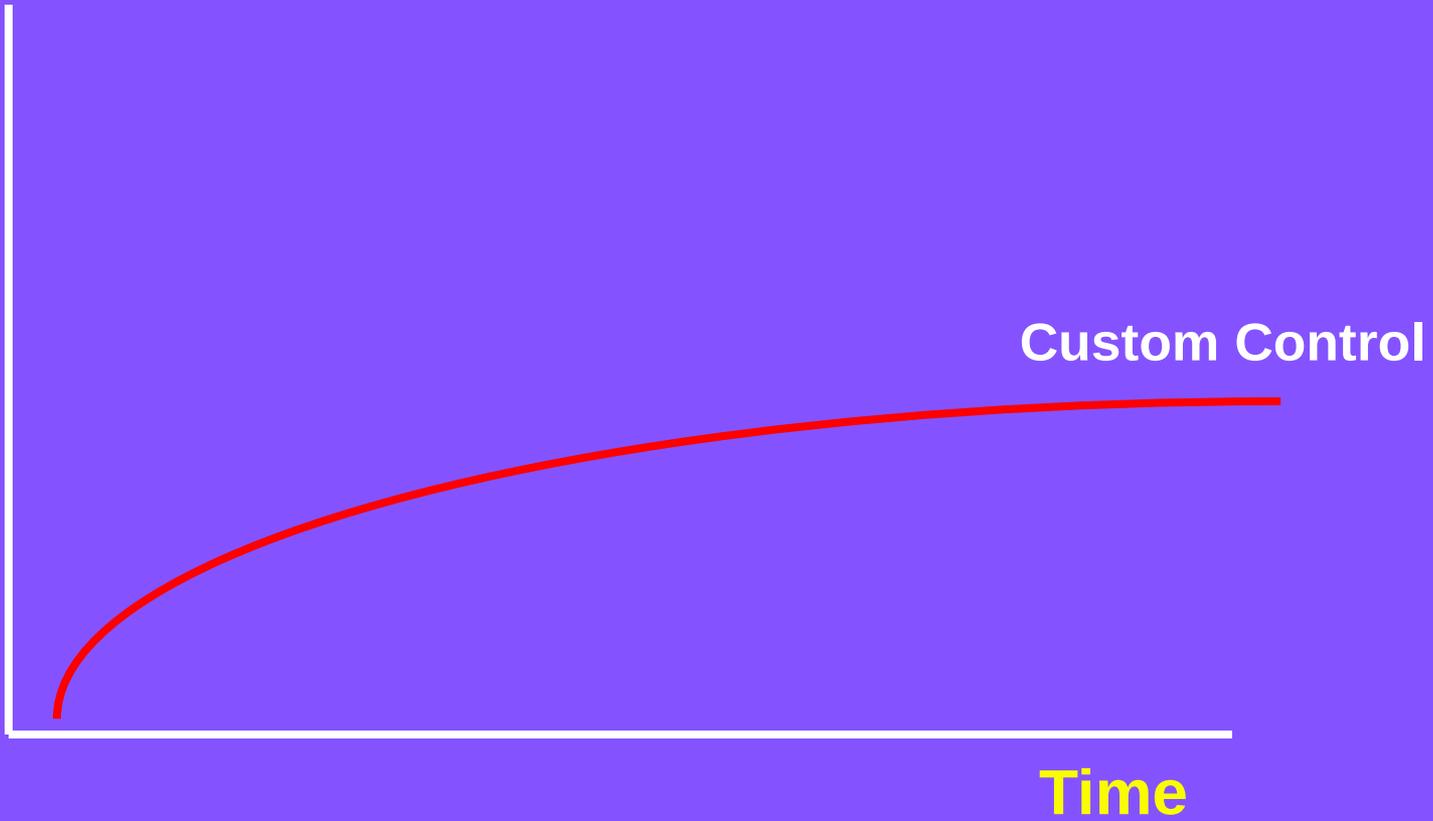
Custom Controls

Coding

Coding to Native APIs

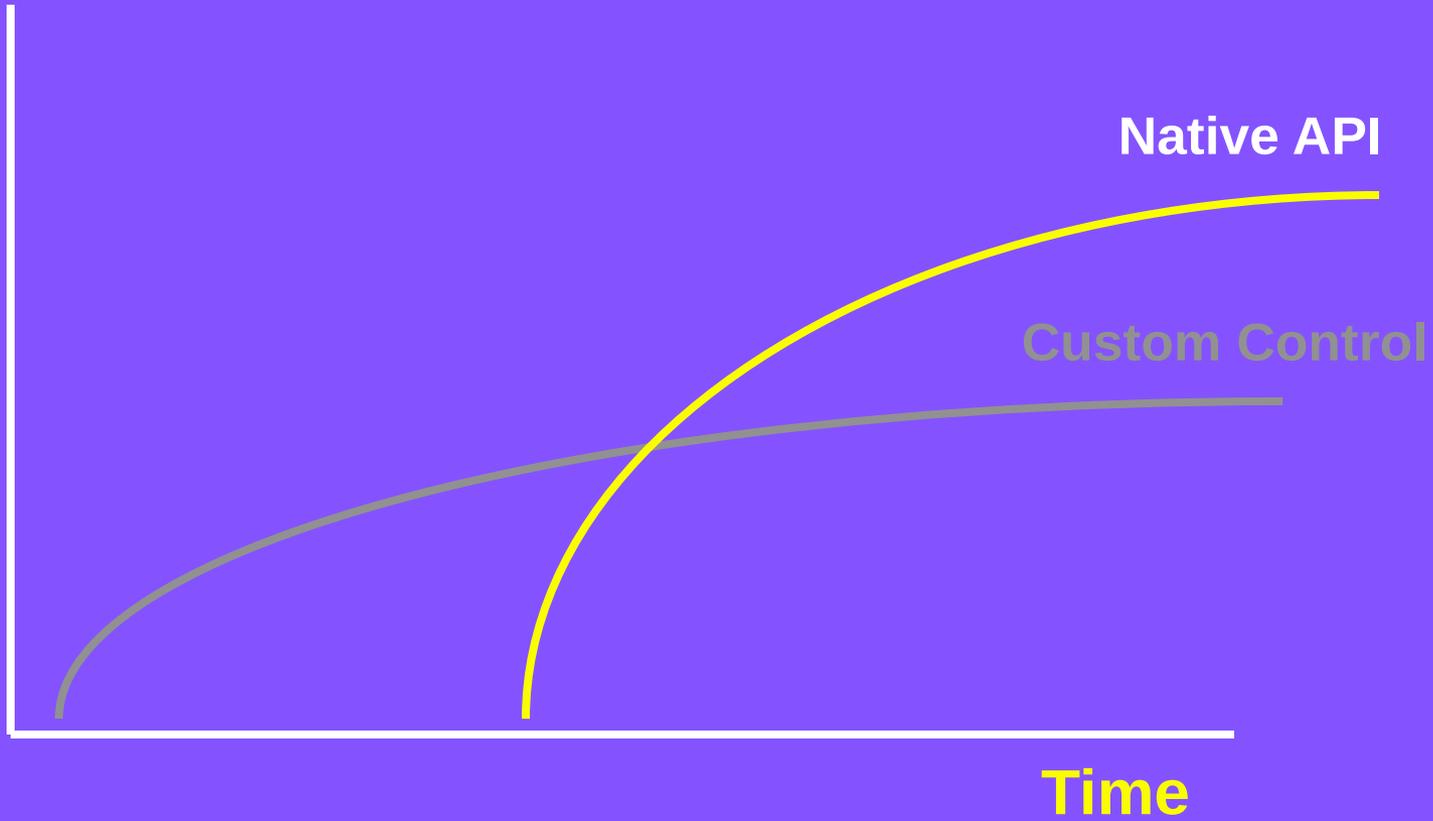
Development Efficiency

Performance



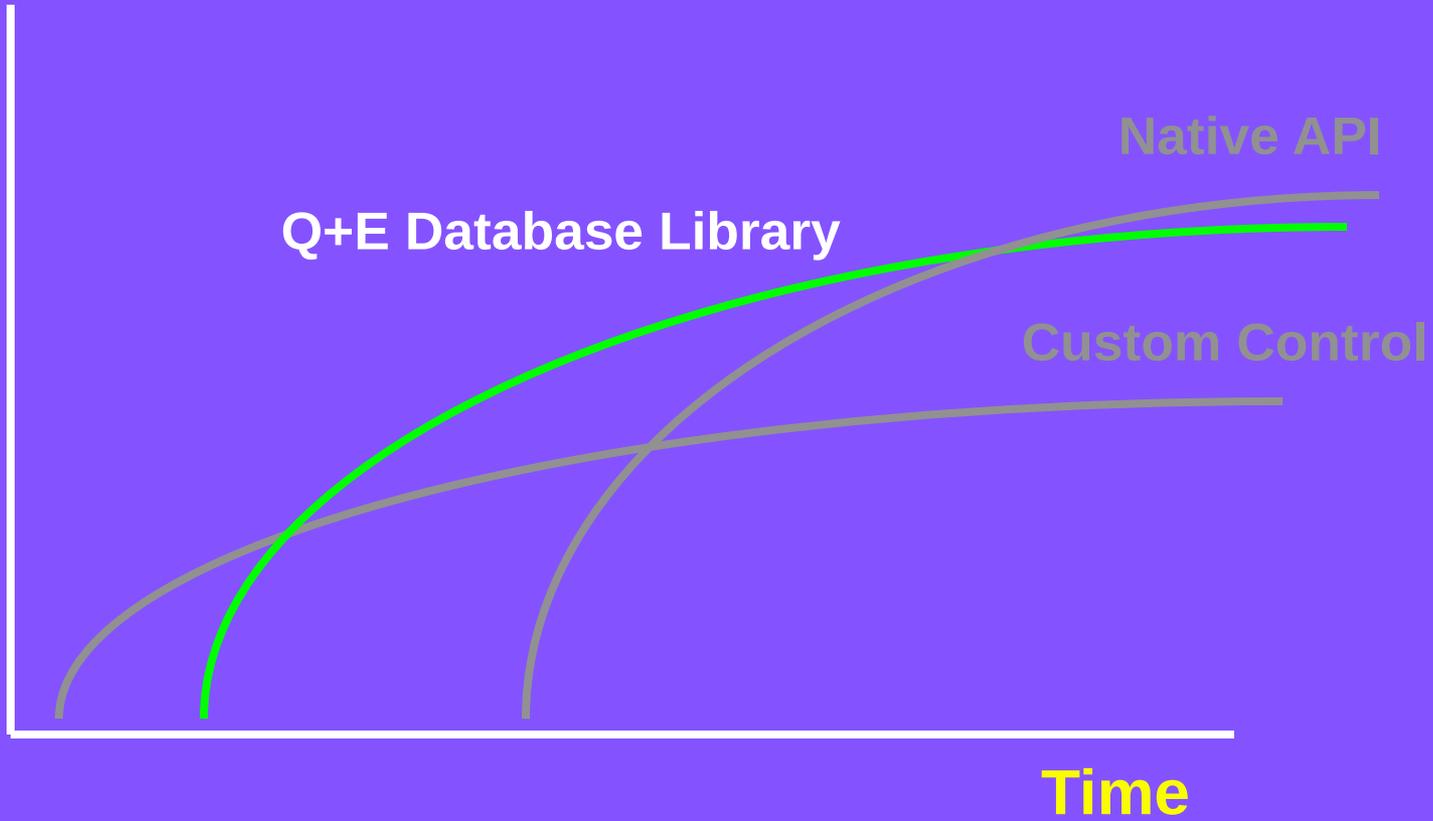
Development Efficiency

Performance



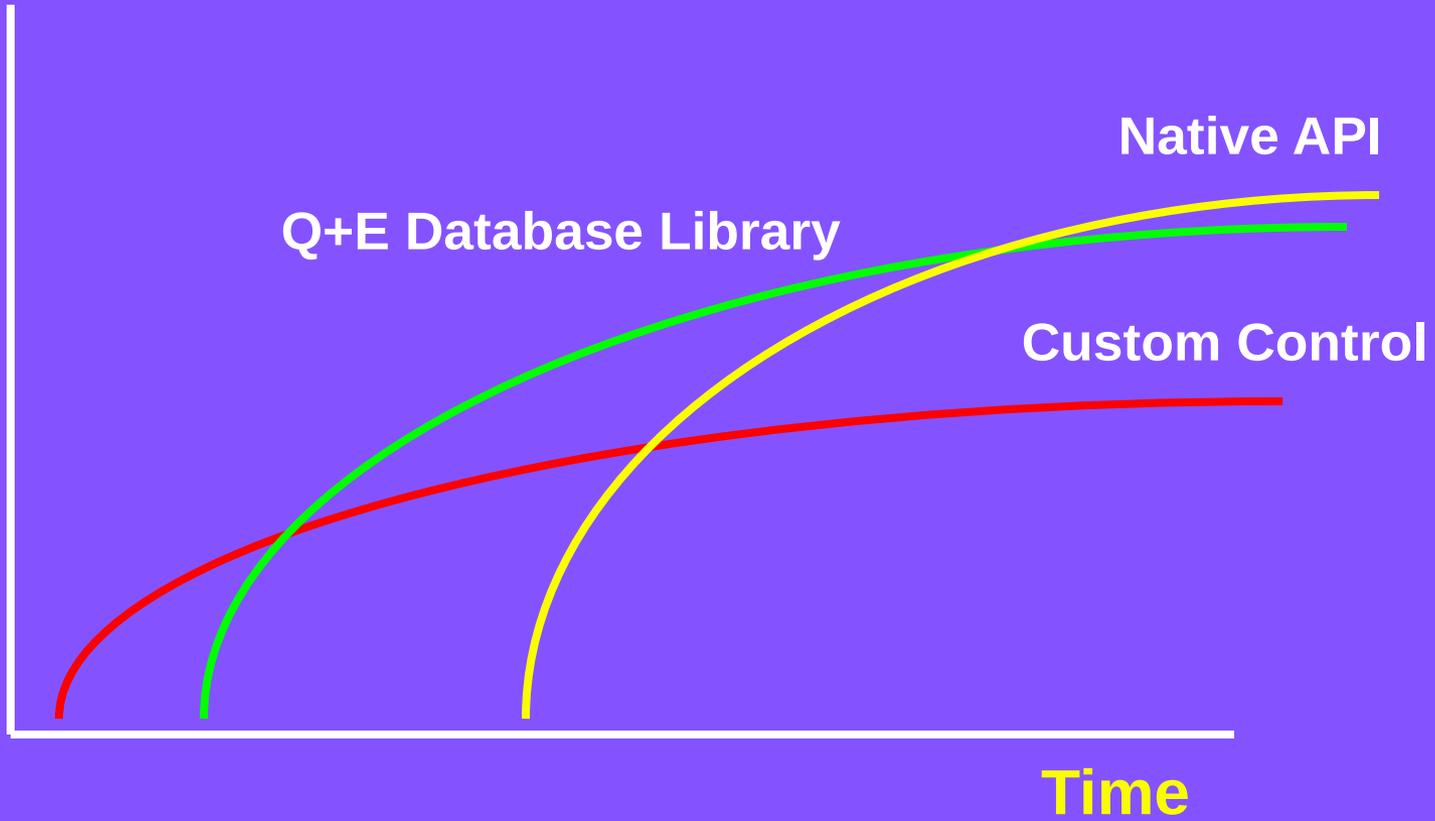
Development Efficiency

Performance



Development Efficiency

Performance



Connecting to Server

On Average - Corporate America has 4 different DBMS.

Mixture of Heterogenous Data

Rapid Application Development

Choose your ODBC Driver carefully

Managing Network Resources

Network Connection Defined

Minimize Network Traffic

Transaction Processing

Transaction Processing Defined

**Why is Transaction Processing
important**

Transaction Processing

ActiveWear - Order Entry System

Customer Information		Current Order					
ID	407523	Last Purchase	12/24/92				
Name	Fil N Nizze		No Item ID	Description	Qty	Price	
Title	President		1	1053 48H2	Bike Jacket	1	43.95
Corp	Nizze Financial Service		2	1207 88P4	Bike Pant	1	13.95
Addr1	5540 Immer Dr		3	1405 77H6	Jeans	1	24.95
Addr2	Suite 324						
City	Pinnet	PA	17645				
Phone	(800) 826-3101	Fax	2114	Sub-total	34.85		
Fax	(215) 555-9777			State Tax	5.65		
				Shipping/Handling	7.00		
				Total	107.50		

Shipping
 Ground Air Next Express

Product Color
 Mar Green Blue Red
 Gold Sky Blue Black
 Burgundy Steel Gray White

Size
 Small Medium Large X-Large

In Stock Backorder Hold Qty

Product Preview

1405 77H6 Jeans

Transaction Processing



ActiveWear - Order Entry System

Customer Information		Current Order	
ID	107523	Last Purchase	12/24/92
Name	Fil Nizze	No	Description Qty Price
Title	President	1	1053 43H2 Bike Helmet 1 43.95
Corp	Nizze Financial Service	2	1207 88P4 Bike Pant 1 19.95
Addr1	5540 Immer Dr	3	1405 77H6 Jersey 1 24.95
Addr2	Suite 324		
City	Phoenix PA 17015		
Phone	(800) 826-3101 Fax 2114	Sub-total	34.85
Fax	(215) 555-9777	State Tax	5.65
		Shipping/Handling	7.00
		Total	107.50

Shipping
 Ground Air Next Express

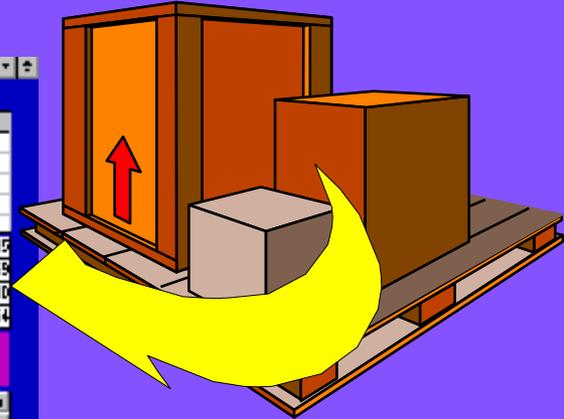
Product Color
 Mar Green Blue Red
 Gold Sky Blue Black
 Burgundy Silver Gray White

Size
 Small Medium Large X-Large

In Stock Backorder (Est) Qty 1

Look Up Add Delete Payment Orders Exit

Product Preview
1405 77H6 Jersey



Transaction Processing



ActiveWear - Order Entry System

Customer Information		Current Order	
ID	407523	Last Purchase	12/24/92
Name	Fil N Nizan	No	Description Qty Price
Title	President	1	1053 43H2 Bike Helmet 1 43.95
Corp	Nizan Financial Service	2	1207 88P4 Bike Pant 1 19.95
Addr1	5540 Immer Dr	3	1405 77H6 Jersey 1 24.95
Addr2	Suite 324		
City	Phenix PA 17015		Sub-total 34.85
Phone	(800) 826-3101 Fax 2114		State Tax 5.65
Fax	(215) 555-9337		Shipping/Handling 7.00
			Total 107.50

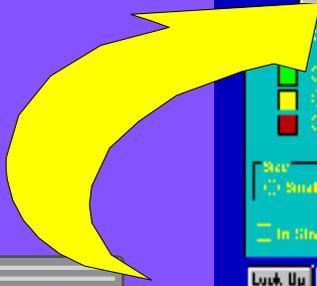
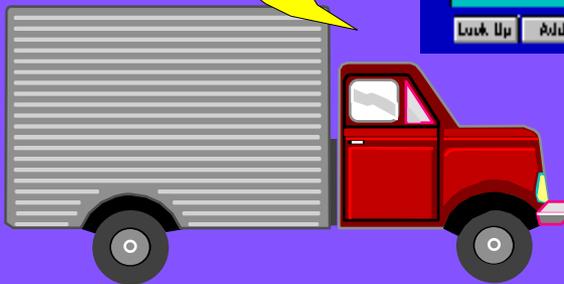
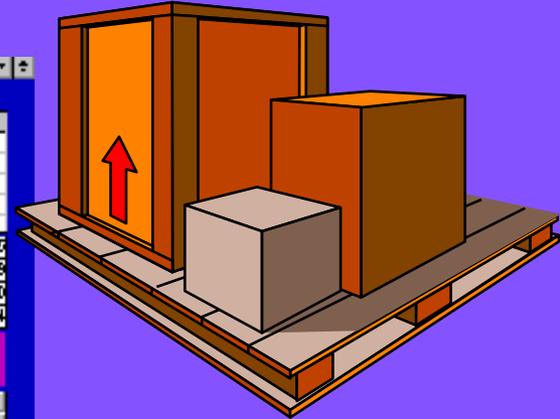
Shipping
 Ground Air Next Express

Color Selection:
 Mar Green Blue Red Red
 Gold Sky Blue Black Black
 Burgundy Silver Gray White White

Size:
 Small Medium Large X-Large

Product Preview: 1405 77H6 Jersey

Buttons: New, Update, Change, History, Look Up, Add, Delete, Payment, Orders, Exit



Summary

Set Reasonable Expectations.

Test against Expectations.

VB & Third Party Tools can do it!