

# ~~Client Server Development: Visual Basic~~

Richard Holcomb, President  
Q+E Software

# Client Server

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Fact?

Fiction?

# **“Doing a Ditty”; A Useful Metaphor**

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## **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

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**Plan**

**Design**

**Start Small**

**Document Expectations**

**Test & Review**

# Before You Code

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## Decision Factors

# Before You Code

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## Decision Factors

Application

# Before You Code

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## Decision Factors

Application

Database Choice

# Before You Code

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## Decision Factors

Application

Database Choice

Database Access Choice



# Before You Code

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## Decision Factors

Application

Database Choice

Database Access Choice

# VB “Gotchas”

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## Connecting to the Server

# VB “Gotchas”

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Connecting to the Server  
Network Resources

# VB “Gotchas”

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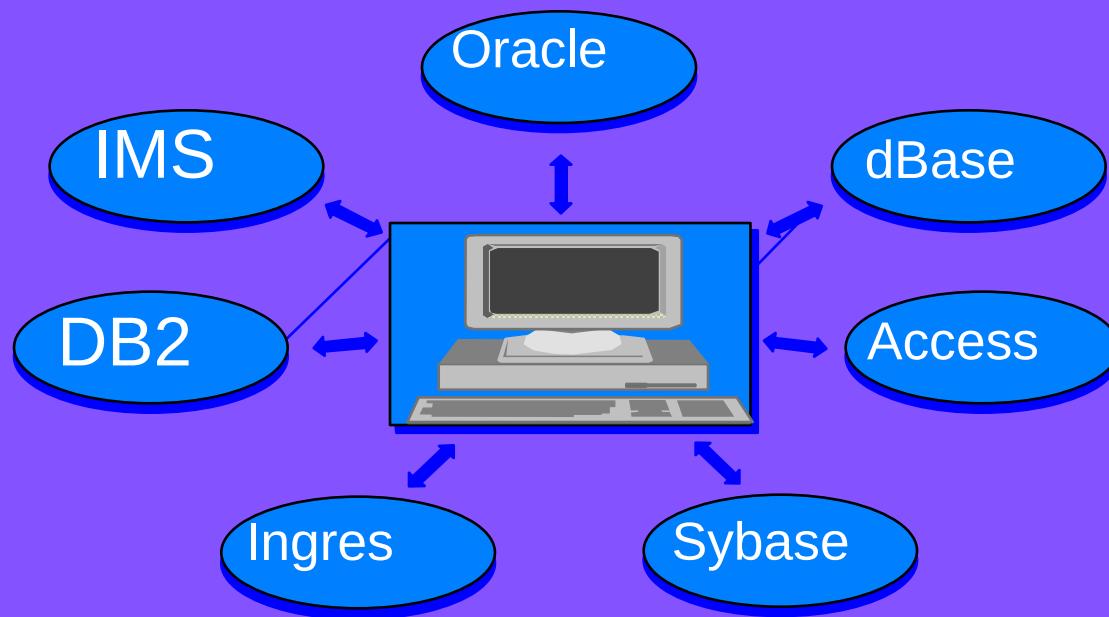
Connecting to the Server  
Network Resources  
Transaction Processing

# Database Choice

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How many DBMS does your organization have

What type are they?

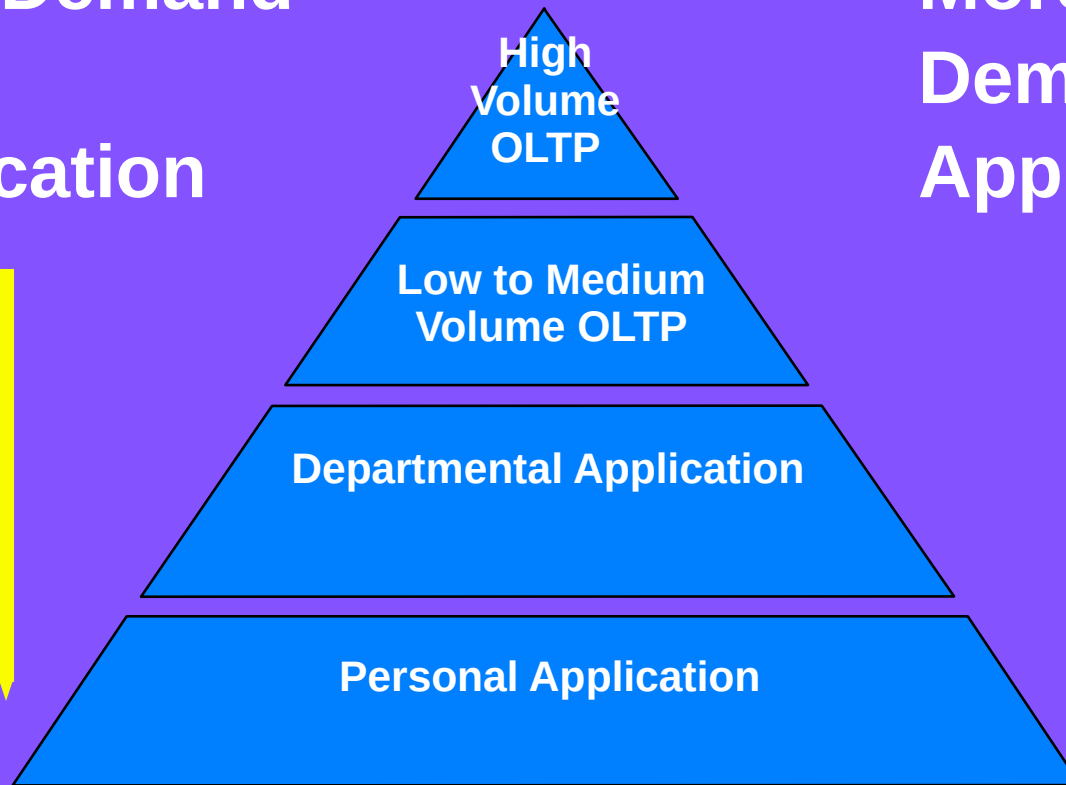


# Application

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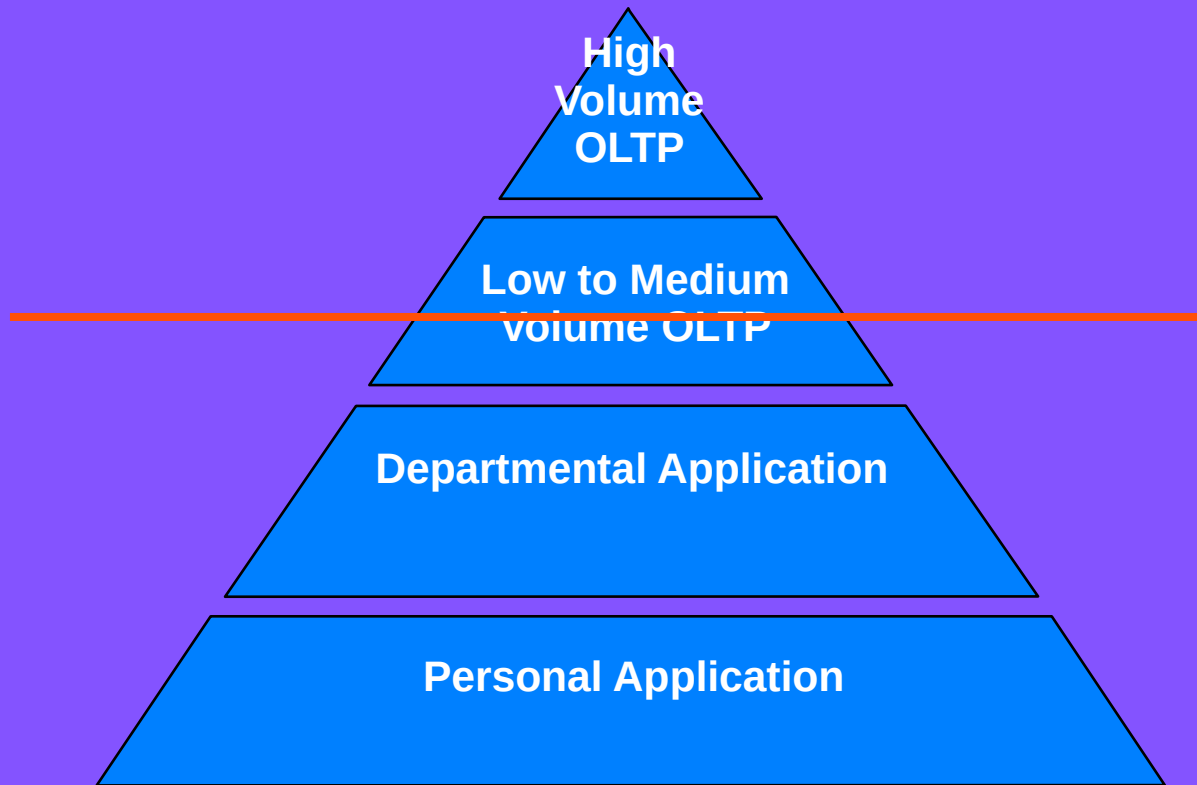
More Demand  
for  
Application

More  
Demanding  
Application



# Application

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# Database Access Choices

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Custom Controls

Coding

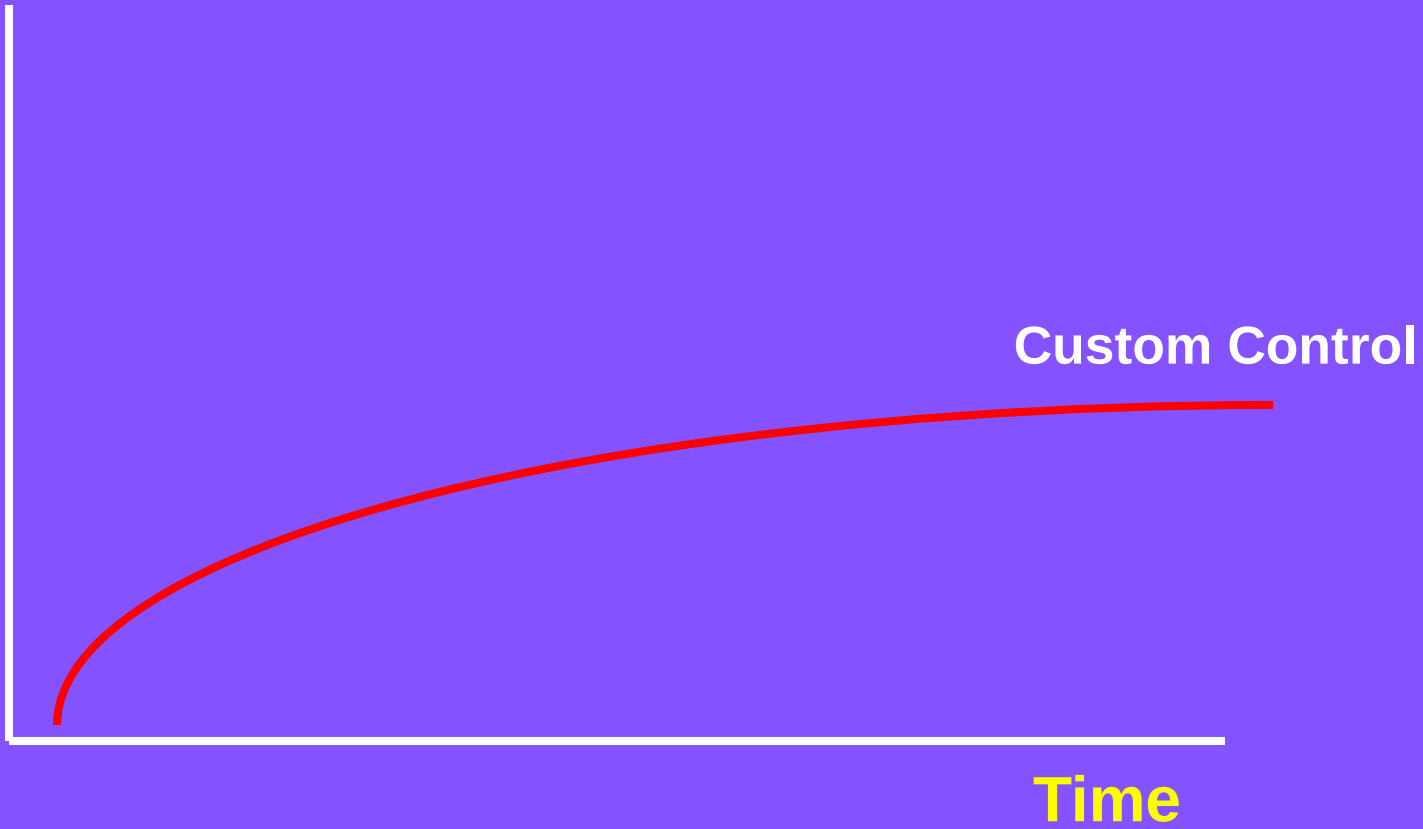
Coding to Native APIs



# Development Efficiency

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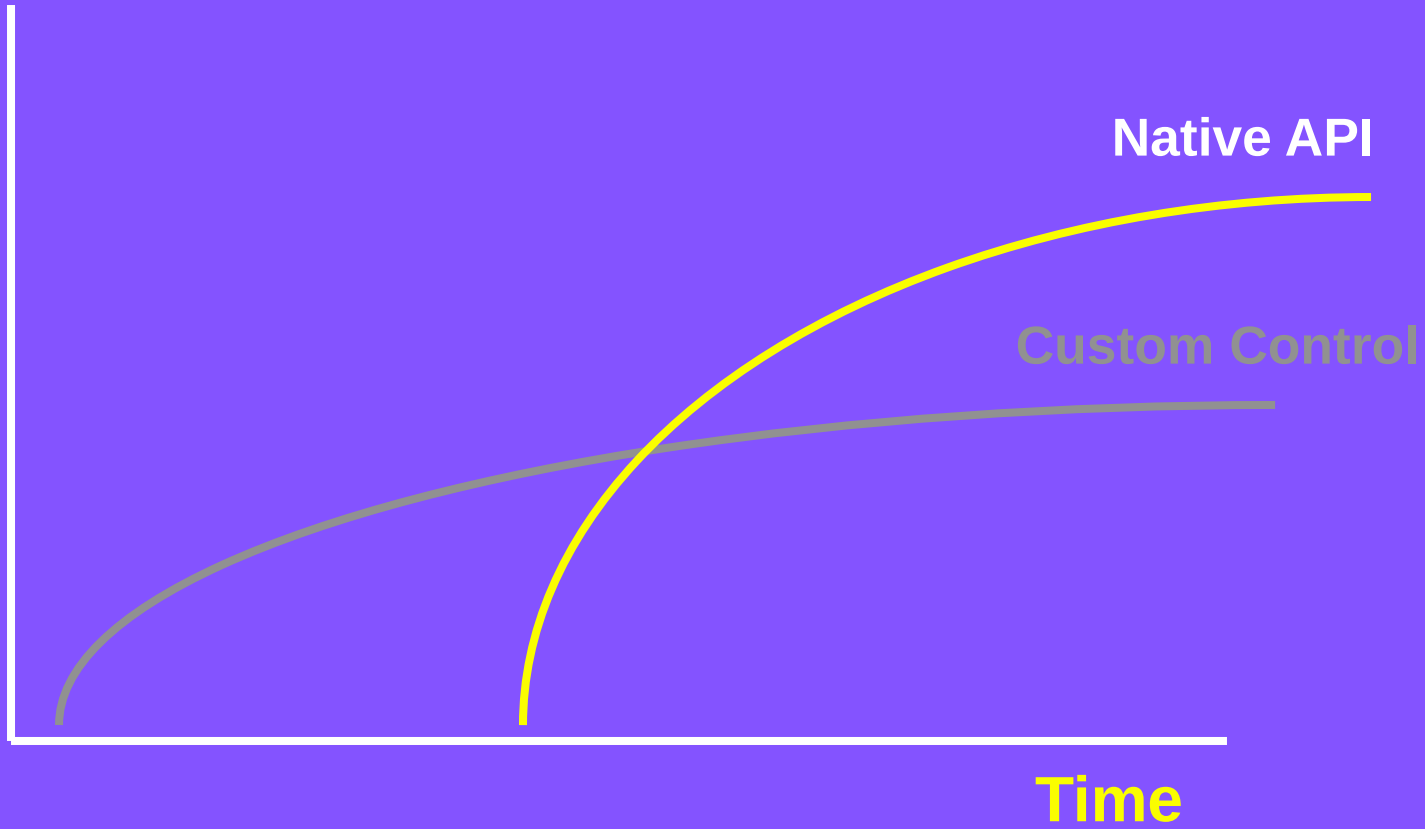
Performance



# Development Efficiency

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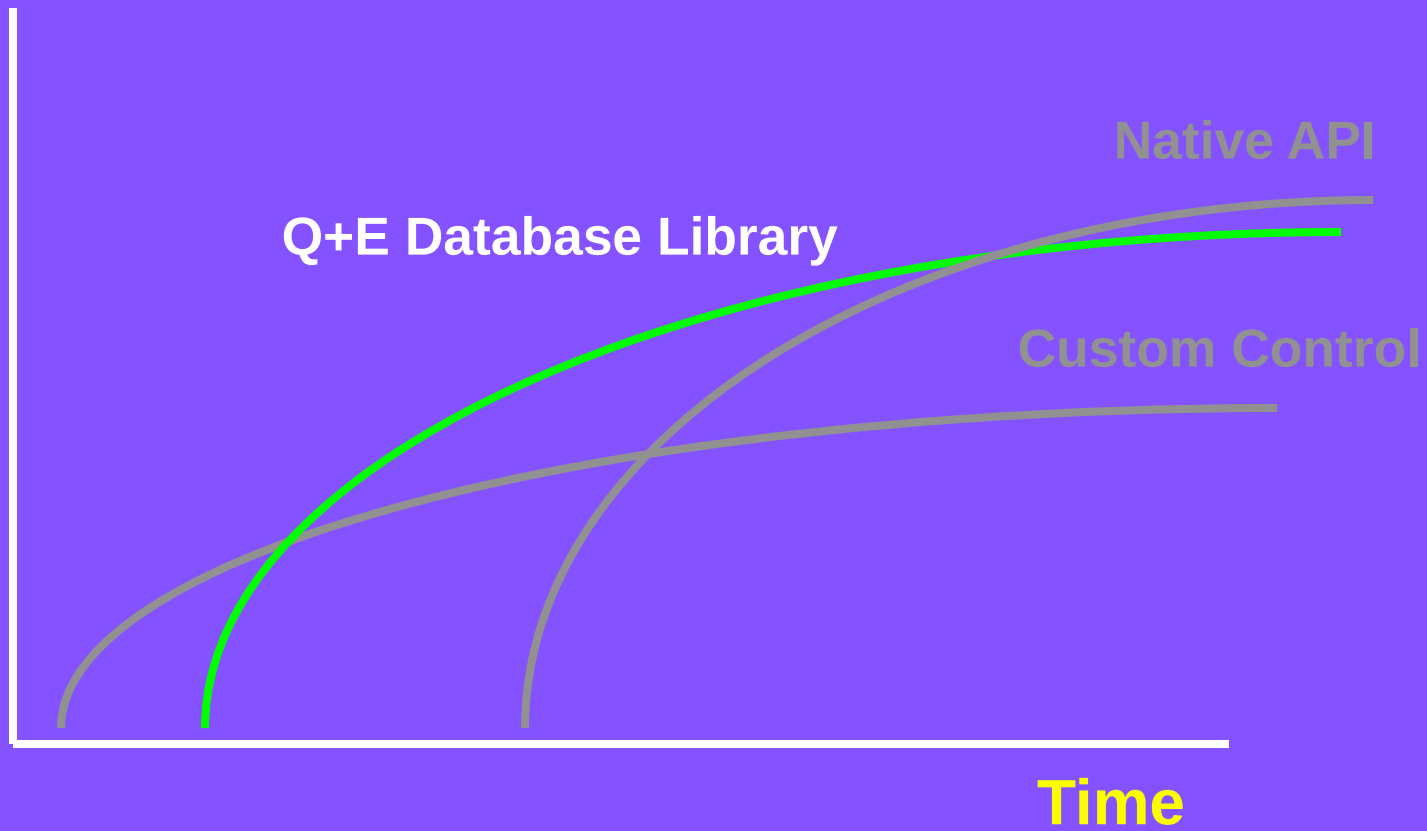
Performance



# Development Efficiency

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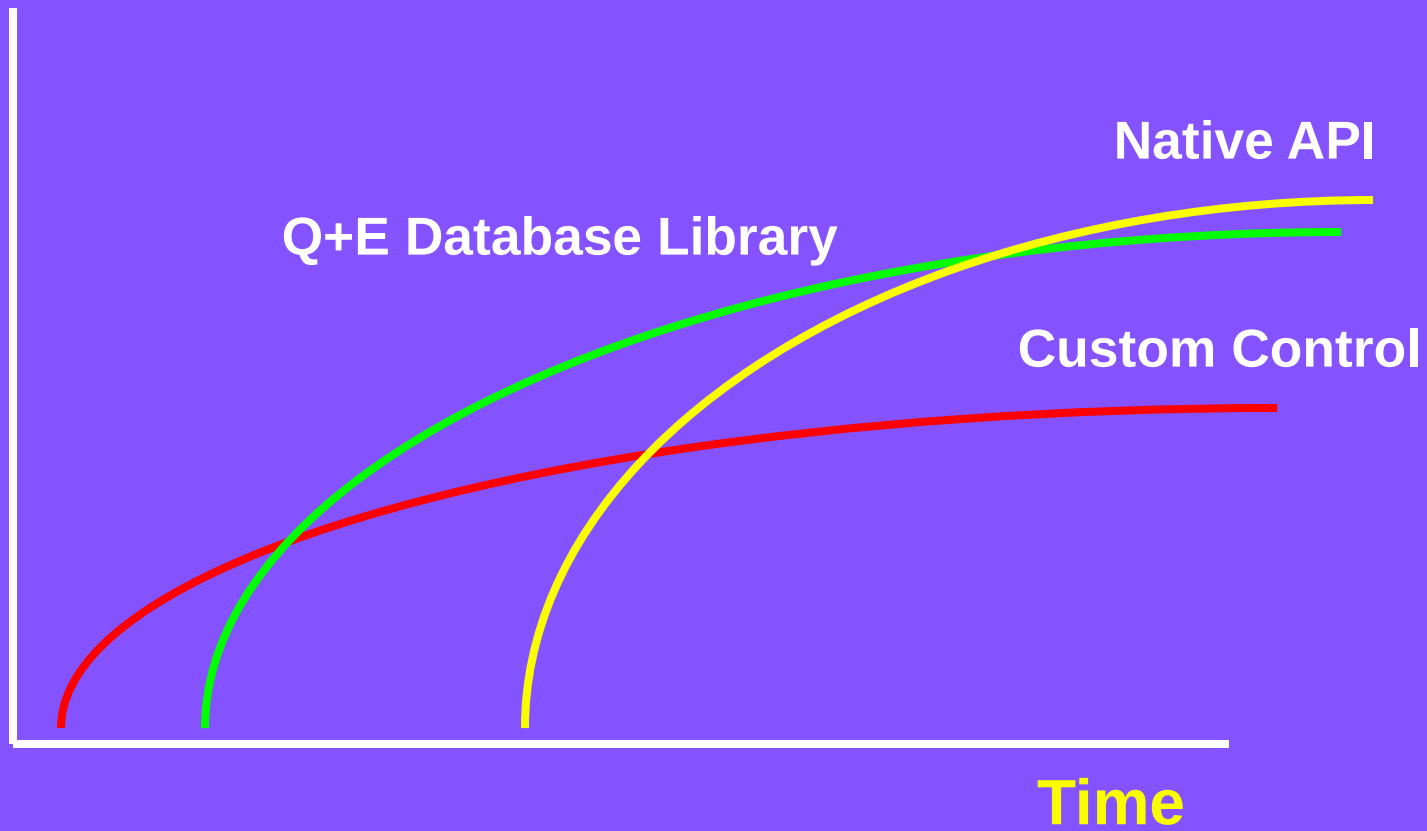
Performance



# Development Efficiency

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Performance



# Connecting to Server

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**On Average - Corporate America has 4 different DBMS.**

**Mixture of Heterogenous Data**

**Rapid Application Development**

**Choose your ODBC Driver carefully**

# Managing Network Resources

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**Network Connection Defined**

**Minimize Network Traffic**

# Transaction Processing

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**Transaction Processing Defined**

**Why is Transaction Processing  
important**

Active Year - Order Entry System

Customer Information

ID

90523

Last Purchase

12/24/92

Name

Fil

Nielsen

Title

President

Corp

Nielsen Financial Service

Addr1

5540 Immmer Dr

Addr2

Suite 324

C-6-Z

Pinnet

PA

1/6/95

Phone

(800) 876-3101

Fax

214

Fax

(214) 555-9337

Current Order

No	Item ID	Description	Qty	Price
1	1053 43H2	Bike Helmet	1	43.95
2	1207 83P4	Bike Pant	1	19.95
3	1405 77H6	Jersey	1	24.95

Sub-total

94.95

State Tax

5.65

Shipping/Handling

7.00

Total

107.54

New

Lookup

Change

History

Shipping

☒ Ground
 ☐ Blue
 ☐ Red
 ☐ Express

Product

Color

☒ Mar Green

☐ Red

☐ Gold

☐ Blue

☐ Blue/gray

☐ Silver Blue

☐ Black

☐ Silver Gray

☐ White

☐ Athletic

Size

☐ Small
 ☐ Medium
 ☒ Large
 ☐ XL-Large

☐ In Stock
 ☐ Backordered (Est)
 

Qty

1

Look Up

Add

Delete

Payment

History

Exit

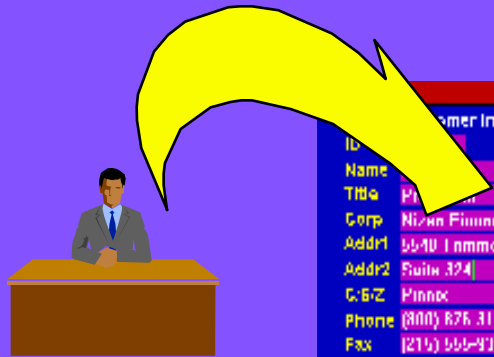
Product Preview



1405 77H6 Jersey



# Transaction Processing



ActiveWear - Order Entry System

Customer Information

ID: [REDACTED] Last Purchase: 12/24/92

Name: N. Nizem

Title: [REDACTED]

Corp: Nizem Financial Service

Addr1: 5540 Limmer Dr

Addr2: Suite 324

City: Pinnock PA 17045

Phone: (800) 826-3101 Ext 2114

Fax: (215) 555-9777

Buttons: New, Edit, Change, History

Current Order

No	Item ID	Description	Qty	Price
1	1053 43H2	Bike Helmet	1	43.95
2	1207 88P4	Bike Pant	1	19.95
3	1405 77H6	Jersey	1	24.95

Sub-total: 94.85  
State Tax: 5.65  
Shipping/Handling: 7.00  
Total: 107.50

Shipping: ☒ Ground ☐ Air ☐ Next ☐ Express


Product Color: ☒ Mar Green ☐ Navy ☐ Red ☐ Gold ☒ Sky Blue ☐ Black ☐ Burgundy ☐ Silver Gray ☐ White

Size: ☒ Small ☐ Medium ☒ Large ☐ X-Large

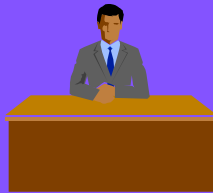
☒ In Stock ☐ Backordered/Not In Stock Qty: 1

Buttons: Look Up, Add, Delete, Payment, Shipping, Total

Product Preview: 1405 77H6 Jersey



# Transaction Processing



ActiveWear - Order Entry System

Customer Information		Current Order	
ID	107523	Last Purchase	12/24/92
Name	Ed Nizem	No	Item ID Description Qty Price
Title	President	1	1053 43H2 Bike Helmet 1 43.95
Corp	Nizem Financial Service	2	1207 68P4 Bike Pant 1 19.95
Addr1	5540 Limmer Dr	3	1405 77H6 Jersey 1 24.95
Addr2	Suite 324		
City	Phoenix		
State	PA		
Zip	17015		
Phone	(800) 826-3101		
Fax	(215) 555-9777		

Sub-total 94.85  
State Tax 5.65  
Shipping/Handling 7.00  
Total 107.50

Shipping  
☒ Ground ☐ Air ☐ Next ☐ Express

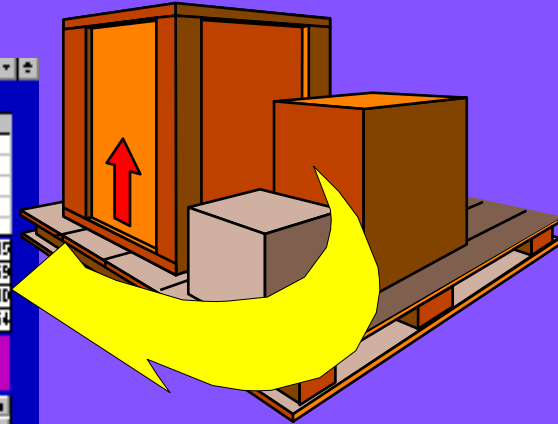
Product Color  
☐ Mar Green ☐ Navy ☐ Red  
☐ Gold ☐ Sky Blue ☐ Black  
☐ Burgundy ☐ Silver Gray ☐ White

Size  
☐ Small ☐ Medium ☒ Large ☐ X-Large

☐ In Stock ☐ Backordered/Wait  Qty  1

Look Up Add Delete Payment Financing Exit

Product Preview  
1405 77H6 Jersey



# Transaction Processing



ActiveWear - Order Entry System

Customer Information		Current Order	
ID	107523	Last Purchase	12/24/92
Name	Ed Nizem	No	Item ID Description Qty Price
Title	President	1	1053 43H2 Bike Helmet 1 43.95
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Phone	(800) 826-3101		
Fax	(215) 555-9777		

Subtotal 94.85  
State Tax 5.65  
Shipping/Handling 7.00  
Total 107.50

Shipping  
☐ Ground ☐ Air ☐ Next ☐ Express

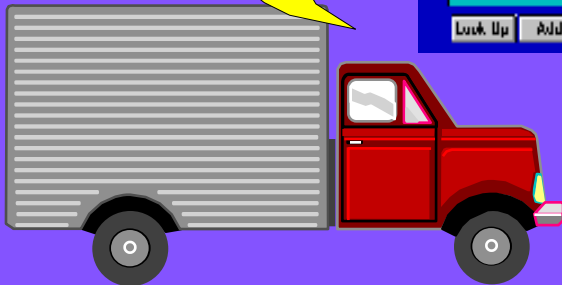
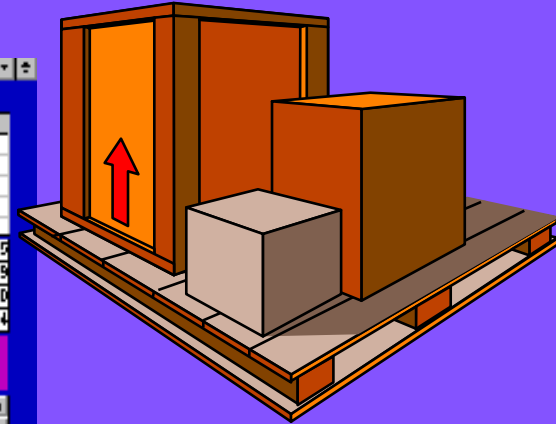
Color: ☐ Mar Green ☐ Navy ☐ Red ☐ Black  
☐ Gold ☐ Sky Blue ☐ Black  
☐ Burgundy ☐ Silver Gray ☐ White

Size: ☐ Small ☐ Medium ☒ Large ☐ X-Large

☐ In Stock ☐ Backordered Item Qty 1

Look Up Add Delete Payment Shipping Total

Product Preview



# Summary

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**Set Reasonable Expectations.**

**Test against Expectations.**

**VB & Third Party Tools can do it!**