

Table of Contents

Table of Figures	xiii
Preface	xvii
Contents of This Book	xvii
On-Line Resources	xviii
Conventions Used in This Book.....	xx
Acknowledgements.....	xx
Server Installation and Configuration	1
Installing WebLogic Server Software	2
Installing on NT/Win2K Machines	2
Installing on SunOS Machines	6
Final Installation Steps	8
Enabling EJB 2.0 Capability in WebLogic	9
Verifying Installation using WebLogic Examples.....	10
Reviewing the Examples Domain.....	10
Booting the Examples Domain	11
Opening the WebLogic Management Console.....	12
Changing the Logging Severity Threshold	13
Configuring the JDBC Connection Pools	14
Building and Deploying the EJB20 Examples.....	17
Testing the EJB20 Examples.....	20
Building the Workbook Database	22
Option #1 – Build Empty Database, Add Tables During Exercises.....	23
Option #2 – Build Empty Database, Create All Tables at Start.....	28
Option #3 – Download Complete Cloudscape Database	31
Configuring EJBBook Domain for EJB Exercises	31
Creating an Empty EJBBook Domain.....	31
Configuring EJBBook Domain	33
Configuring TitanApp Application in EJBBook Domain	40
Exercise Code Setup and Configuration	44

Exercises for Chapter 4	47
Exercise 4.1: A Simple Entity Bean.....	48
Download and Build the Example Programs.....	48
Create the Required Database Objects.....	49
Examine the WebLogic-Specific Files/Components	49
Deploy the EJB Components to WebLogic	53
Examine and Run the Client Applications	56
Examine and Run the Client JSP Pages	59
Exercise 4.2: A Simple Session Bean	61
Download and Build the Example Programs.....	61
Create the Required Database Objects.....	61
Examine the WebLogic-Specific Files/Components	61
Deploy the EJB Components to WebLogic	63
Examine and Run the Client Applications	64
Examine and Run the Client JSP Pages	66
Exercises for Chapter 5	67
Exercise 5.1: The Remote Component Interfaces	68
Download and Build the Example Programs.....	68
Create the Required Database Objects.....	68
Examine the WebLogic-Specific Files/Components	68
Deploy the EJB Components to WebLogic	68
Examine and Run the Client Applications	68
Examine and Run the Client JSP Pages	69
Exercise 5.2: The EJBObject, Handle, and Primary Key.....	70
Download and Build the Example Programs.....	70
Create the Required Database Objects.....	70
Examine the WebLogic-Specific Files/Components	70
Deploy the EJB Components to WebLogic	70
Examine and Run the Client Applications	70
Examine and Run the Client JSP Pages	72
Exercise 5.3: The Local Component Interfaces	73
Download and Build the Example Programs.....	73
Create the Required Database Objects.....	73
Examine the Standard EJB Descriptor File	73
Examine the WebLogic-Specific Files/Components	74

Deploy the EJB Components to WebLogic	75
Examine and Run the Client Applications	75
Examine and Run the Client JSP Pages	76
Exercises for Chapter 6	77
Exercise 6.1: Basic Persistence in CMP 2.0.....	78
Download and Build the Example Programs.....	78
Create the Required Database Objects.....	78
Examine the Standard EJB Descriptor File	79
Examine the WebLogic-Specific Files/Components	80
Deploy the EJB Components to WebLogic	80
Examine and Run the Client Applications	80
Examine and Run the Client JSP Pages	82
Exercise 6.2: Dependent Value Classes in CMP 2.0	83
Download and Build the Example Programs.....	83
Create the Required Database Objects.....	85
Examine the Standard EJB Descriptor File	85
Examine the WebLogic-Specific Files/Components	85
Deploy the EJB Components to WebLogic	85
Examine and Run the Client Applications	85
Examine and Run the Client JSP Pages	86
Exercise 6.3: A Simple Relationship in CMP 2.0	88
Download and Build the Example Programs.....	88
Create the Required Database Objects.....	92
Examine the Standard EJB Descriptor File	94
Examine the WebLogic-Specific Files/Components	95
Deploy the EJB Components to WebLogic	97
Examine and Run the Client Applications	97
Examine and Run the Client JSP Pages	99
Exercises for Chapter 7.....	101
Exercise 7.1: Entity Relationships in CMP 2.0: Part 1	102
Download and Build the Example Programs.....	102
Create the Required Database Objects.....	103
Examine the Standard EJB Descriptor File	104
Examine the WebLogic-Specific Files/Components	108
Deploy the EJB Components to WebLogic	110

Examine and Run the Client JSP Pages	110
Exercise 7.2: Entity Relationships in CMP 2.0: Part 2	116
Download and Build the Example Programs.....	116
Create the Required Database Objects.....	116
Examine the Standard EJB Descriptor File	117
Examine the WebLogic-Specific Files/Components	122
Deploy the EJB Components to WebLogic	126
Examine and Run the Client JSP Pages	126
Optional Additional Tasks	135
Exercise 7.3: Cascade Deletes in CMP 2.0.....	136
Download and Build the Example Programs.....	136
Create the Required Database Objects.....	136
Examine the Standard EJB Descriptor File	136
Examine the WebLogic-Specific Files/Components	137
Deploy the EJB Components to WebLogic	137
Examine and Run the Client JSP Pages	137
Exercises for Chapter 8	139
Exercise 8.1: Simple EJB QL Statements	140
Download and Build the Example Programs.....	140
Create the Required Database Objects.....	140
Examine the Standard EJB Descriptor File	140
Examine the WebLogic-Specific Files/Components	147
Deploy the EJB Components to WebLogic	147
Examine and Run the Client JSP Pages	147
Exercise 8.2: Complex EJB QL Statements.....	152
Download and Build the Example Programs.....	152
Create the Required Database Objects.....	152
Examine the Standard EJB Descriptor File	152
Examine the WebLogic-Specific Files/Components	157
Deploy the EJB Components to WebLogic	157
Examine and Run the Client JSP Pages	158
Exercise for Chapter 10	163
Exercise 10.1: A BMP Entity Bean.....	164
Download and Build the Example Programs.....	164
Create the Required Database Objects.....	164

Examine the Standard EJB Descriptor File	165
Examine the WebLogic-Specific Files/Components	167
Deploy the EJB Components to WebLogic	167
Examine and Run the Client Applications	168
Examine and Run the Client JSP Pages	170
<i>Exercises for Chapter 12</i>	171
Exercise 12.1: A Stateless Session Bean	172
Download and Build the Example Programs	172
Create the Required Database Objects	173
Examine the Standard EJB Descriptor File	174
Examine the WebLogic-Specific Files/Components	175
Deploy the EJB Components to WebLogic	176
Examine and Run the Client Applications	176
Examine and Run the Client JSP Pages	178
Exercise 12.2: A Stateful Session Bean	179
Download and Build the Example Programs	179
Create the Required Database Objects	182
Examine the Standard EJB Descriptor File	185
Examine the WebLogic-Specific Files/Components	191
Deploy the EJB Components to WebLogic	195
Examine and Run the Client Applications	196
Examine and Run the Client JSP Pages	200
<i>Exercises for Chapter 13</i>	201
Exercise 13.1: JMS as a Resource	202
Download and Build the Example Programs	202
Configure the Required JMS Components	203
Examine the Standard EJB Descriptor File	207
Examine the WebLogic-Specific Files/Components	208
Deploy the EJB Components to WebLogic	208
Examine and Run the Client Applications	209
Examine and Run the Client JSP Pages	212
Exercise 13.2: The Message-Driven Bean	213
Download and Build the Example Programs	214
Configure the Required JMS Components	216
Examine the Standard EJB Descriptor File	222

Examine the WebLogic-Specific Files/Components	224
Deploy the EJB Components to WebLogic	226
Examine and Run the Client Applications	226
Examine and Run the Client JSP Pages	232