List of Examples

4-1	Creating Objects Containing VARRAYs	4-9
6-1	Registering Through the Database Using JDBC Connection Parameters	6-39
6-2	Registering Through the Database Using a JDBC URL	6-40
6-3	Registering Through LDAP Using JDBC Connection Parameters	6-41
6-4	Registering Through LDAP Using a JDBC URL	6-42
6-5	Unregistering Through the Database	6-42
6-6	Unregistering Through LDAP	6-43
6-7	Getting a QueueConnectionFactory with JDBC URL	6-44
6-8	Getting a QueueConnectionFactory with JDBC Connection Parameters	6-44
6-9	Getting a TopicConnectionFactory with JDBC URL	6-45
6-10	Getting a TopicConnectionFactory with JDBC Connection Parameters	6-45
6-11	Getting a QueueConnectionFactory or TopicConnectionFactory in LDAP	6-45
6-12	Getting a Queue or Topic in LDAP	6-46
6-13	Creating a Queue Table	6-47
6-14	Creating a Point-to-Point Queue	6-48
6-15	Creating a Publish/Subscribe Topic	6-48
6-16	Specifying Max Retries and Max Delays in Messages	6-48
6-17	Getting a Queue Table	6-50
6-18	Granting Oracle Database Advanced Queuing System Privileges	6-51
6-19	Revoking Oracle Database Advanced Queuing System Privileges	6-51
6-20	Granting Publish/Subscribe Topic Privileges	6-52
6-21	Revoking Publish/Subscribe Topic Privileges	6-52
6-22	Granting Point-to-Point Queue Privileges	6-53
6-23	Revoking Point-to-Point Queue Privileges	6-53
6-24	Starting a Destination	6-54
6-25	Stopping a Destination	6-54
6-26	Altering a Destination	6-55
6-27	Dropping a Destination	6-55
6-28	Scheduling a Propagation	6-56
6-29	Enabling a Propagation Schedule	6-56
6-30	Altering a Propagation Schedule	6-57
6-31	Disabling a Propagation Schedule	6-57
6-32	Unscheduling a Propagation	6-58
6-33	Creating a QueueConnection with User Name/Password	6-59
6-34	Creating a QueueConnection with an Open JDBC Connection	6-60
6-35	Creating a QueueConnection from a Java Procedure Inside Database	6-60



5-36	Creating a QueueConnection with an Open OracleOCIConnectionPool	6-60
6-37	Creating a Transactional QueueSession	6-61
6-38	Creating a Sender to Send Messages to Any Queue	6-62
6-39	Creating a Sender to Send Messages to a Specific Queue	6-62
6-40	Sending Messages Using a QueueSender by Specifying Send Options 1	6-63
6-41	Sending Messages Using a QueueSender by Specifying Send Options 2	6-63
6-42	Creating a QueueBrowser Without a Selector	6-63
6-43	Creating a QueueBrowser With a Specified Selector	6-64
6-44	Creating a QueueBrowser Without a Selector, Locking Messages	6-64
6-45	Creating a QueueBrowser With a Specified Selector, Locking Messages	6-64
6-46	Creating a QueueBrowser for ADTMessages	6-65
6-47	Creating a QueueBrowser for AdtMessages, Locking Messages	6-66
6-48	Creating a QueueReceiver Without a Selector	6-67
6-49	Creating a QueueReceiver With a Specified Selector	6-67
6-50	Creating a QueueReceiver for AdtMessage Messages	6-68
6-51	Creating a TopicConnection with User Name/Password	6-70
6-52	Creating a TopicConnection with Open JDBC Connection	6-70
6-53	Creating a TopicConnection with New JDBC Connection	6-70
6-54	Creating a TopicConnection with Open OracleOCIConnectionPool	6-70
6-55	Creating a TopicSession	6-71
6-56	Publishing Without Specifying Topic	6-72
6-57	Publishing Specifying Correlation and Delay	6-72
6-58	Publishing Specifying Topic	6-73
6-59	Publishing Specifying Priority and TimeToLive	6-74
6-60	Publishing Specifying a Recipient List Overriding Topic Subscribers	6-74
6-61	Creating a Durable Subscriber for a JMS Topic Without Selector	6-75
6-62	Creating a Durable Subscriber for a JMS Topic With Selector	6-76
6-63	Creating a Durable Subscriber for an Oracle Object Type Topic Without Selector	6-77
6-64	Creating a Durable Subscriber for an Oracle Object Type Topic With Selector	6-79
6-65	Sending Messages to a Destination Using a Transformation	6-79
6-66	Specifying Transformations for Topic Subscribers	6-80
6-67	Creating a Remote Subscriber for Topics of JMS Messages	6-81
6-68	Creating a Remote Subscriber for Topics of Oracle Object Type Messages	6-82
6-69	Specifying Transformations for Remote Subscribers	6-83
6-70	Unsubscribing a Durable Subscription for a Local Subscriber	6-84
6-71	Unsubscribing a Durable Subscription for a Remote Subscriber	6-85
6-72	Creating a TopicReceiver for Standard JMS Type Messages	6-86



6-73	Creating a TopicReceiver for Oracle Object Type Messages	6-87
6-74	Creating a TopicBrowser Without a Selector	6-88
6-75	Creating a TopicBrowser With a Specified Selector	6-88
6-76	Creating a TopicBrowser Without a Selector, Locking Messages While Browsing	6-89
6-77	Creating a TopicBrowser With a Specified Selector, Locking Messages	6-89
6-78	Creating a TopicBrowser for AdtMessage Messages	6-90
6-79	Creating a TopicBrowser for AdtMessage Messages, Locking Messages	6-91
6-80	Creating a TopicBrowser with a Specified Selector	6-91
6-81	Getting Underlying JDBC Connection from JMS Session	6-93
6-82	Getting Underlying OracleOCIConnectionPool from JMS Connection	6-93
6-83	Setting Default TimeToLive for All Messages Sent by a MessageProducer	6-98
6-84	Setting Default Priority Value for All Messages Sent by QueueSender	6-99
6-85	Setting Default Priority Value for All Messages Sent by TopicPublisher	6-99
6-86	Using a Message Consumer by Specifying Timeout	6-99
6-87	JMS: Blocking Until a Message Arrives	6-100
6-88	JMS: Nonblocking Messages	6-100
6-89	JMS: Receiving Messages from a Destination Using a Transformation	6-101
6-90	Specifying Navigation Mode for Receiving Messages	6-102
6-91	Specifying Message Listener at Message Consumer	6-103
6-92	Getting Message Property as an Object	6-107
6-93	Specifying Exception Listener for Connection	6-109
6-94	Using ExceptionListener with MessageListener	6-109
6-95	Getting the Exception Listener for the Connection	6-113
6-96	Setting Up Environment for Running JMS Types Examples	6-113
6-97	Setting Up the Examples	6-116
6-98	Populating and Enqueuing a BytesMessage	6-117
6-99	Dequeuing and Retrieving JMS BytesMessage Data	6-119
6-100	Populating and Enqueuing a JMS StreamMessage	6-121
6-101	Dequeuing and Retrieving Data From a JMS StreamMessage	6-123
6-102	Populating and Enqueuing a JMS MapMessage	6-126
6-103	Dequeuing and Retrieving Data From a JMS MapMessage	6-128
6-104	Enqueuing a Large TextMessage	6-131
6-105	Enqueuing a Large BytesMessage	6-132
7-1	Enqueuing a Message, Specifying Queue Name and Payload	7-6
7-2	Enqueuing a Message, Specifying Priority	7-7
7-3	Creating an Enqueue Procedure for LOB Type Messages	7-7
7-4	Enqueuing a LOB Type Message	7-7



7-5	Enqueuing Multiple Messages	7-7
7-6	Adding Subscribers RED and GREEN	7-8
7-7	Enqueuing Multiple Messages to a Multiconsumer Queue	7-9
7-8	Enqueuing Grouped Messages	7-9
7-9	Enqueuing a Message, Specifying Delay and Expiration	7-10
7-10	Enqueuing a Message, Specifying a Transformation	7-10
7-11	Enqueuing an Array of Messages	7-11
7-12	Listening to a Single-Consumer Queue with Zero Timeout	7-12
7-13	Dequeuing Object Type Messages	7-17
7-14	Creating a Dequeue Procedure for LOB Type Messages	7-17
7-15	Dequeuing LOB Type Messages	7-18
7-16	Dequeuing Grouped Messages	7-18
7-17	Dequeuing Messages for RED from a Multiconsumer Queue	7-19
7-18	Dequeue in Browse Mode and Remove Specified Message	7-19
7-19	Dequeue in Locked Mode and Remove Specified Message	7-20
7-20	Dequeuing an Array of Messages	7-21
7-21	Registering for Notifications	7-23
7-22	Posting Object-Type Messages	7-24
8-1	Setting REMOTE_LISTENER Parameter for Cross Instance Enqueues	8-8
12-1	Setting Up AQ Administrative Users	12-6
12-2	Setting Up AQ Administrative Example Types	12-7
12-3	Creating a Queue Table for Messages of Object Type	12-7
12-4	Creating a Queue Table for Messages of RAW Type	12-7
12-5	Creating a Queue Table for Messages of LOB Type	12-7
12-6	Creating a Queue Table for Messages of XMLType	12-7
12-7	Creating a Queue Table for Grouped Messages	12-8
12-8	Creating Queue Tables for Prioritized Messages and Multiple Consumers	12-8
12-9	Creating a Queue Table with Commit-Time Ordering	12-8
12-10	Creating an 8.1-Compatible Queue Table for Multiple Consumers	12-8
12-11	Creating a Queue Table in a Specified Tablespace	12-8
12-12	Creating a Queue Table with Freelists or Freelist Groups	12-9
12-13	Altering a Queue Table by Changing the Primary and Secondary Instances	12-10
12-14	Altering a Queue Table by Changing the Comment	12-10
12-15	Dropping a Queue Table	12-10
12-16	Dropping a Queue Table with force Option	12-10
12-17	Purging All Messages in a Queue Table	12-12
12-18	Purging All Messages in a Named Queue	12-12



12-19	Purging All PROCESSED Messages in a Named Queue	12-12
12-20	Purging All Messages in a Named Queue and for a Named Consumer	12-12
12-21	Purging All Messages from a Named Sender	12-12
12-22	Upgrading a Queue Table from 8.1-Compatible to 10.0-Compatible	12-13
12-23	Creating a Queue for Messages of Object Type	12-15
12-24	Creating a Queue for Messages of RAW Type	12-15
12-25	Creating a Queue for Messages of LOB Type	12-15
12-26	Creating a Queue for Grouped Messages	12-16
12-27	Creating a Queue for Prioritized Messages	12-16
12-28	Creating a Queue for Prioritized Messages and Multiple Consumers	12-16
12-29	Creating a Queue to Demonstrate Propagation	12-16
12-30	Creating an 8.1-Style Queue for Multiple Consumers	12-16
12-31	Altering a Queue by Changing Retention Time	12-17
12-32	Starting a Queue with Both Enqueue and Dequeue Enabled	12-17
12-33	Starting a Queue for Dequeue Only	12-17
12-34	Stopping a Queue	12-17
12-35	Dropping a Standard Queue	12-18
12-36	Creating a Transformation	12-19
12-37	Granting AQ System Privileges	12-20
12-38	Revoking AQ System Privileges	12-21
12-39	Granting Queue Privilege	12-22
12-40	Revoking Dequeue Privilege	12-22
12-41	Adding a Subscriber at a Designated Queue at a Database Link	12-24
12-42	Adding a Single Consumer Queue at a Dababase Link as a Subscriber	12-24
12-43	Adding a Subscriber with a Rule	12-24
12-44	Adding a Subscriber and Specifying a Transformation	12-24
12-45	Propagating from a Multiple-Consumer Queue to a Single Consumer Queue	12-25
12-46	Altering a Subscriber Rule	12-25
12-47	Removing a Subscriber	12-26
12-48	Scheduling a Propagation to Queues in the Same Database	12-28
12-49	Scheduling a Propagation to Queues in Another Database	12-28
12-50	Scheduling Queue-to-Queue Propagation	12-28
12-51	Verifying a Queue Type	12-29
12-52	Altering a Propagation Schedule to Queues in the Same Database	12-29
12-53	Altering a Propagation Schedule to Queues in Another Database	12-30
12-54	Enabling a Propagation to Queues in the Same Database	12-30
12-55	Enabling a Propagation to Queues in Another Database	12-30
12-42 12-43 12-44 12-45 12-46	Adding a Single Consumer Queue at a Dababase Link as a Subscriber Adding a Subscriber with a Rule Adding a Subscriber and Specifying a Transformation Propagating from a Multiple-Consumer Queue to a Single Consumer Queue Altering a Subscriber Rule	12-24 12-24 12-24 12-25
	Removing a Subscriber	12-26
12-45	Propagating from a Multiple-Consumer Queue to a Sing	le Consumer Queue
,		
2-46	Altering a Subscriber Rule	12-25
12-47	Removing a Subscriber	12-26
	-	
12-48	Scheduling a Propagation to Queues in the Same Database	12-28
12-49	Scheduling a Propagation to Queues in Another Database	12-28
12-50	Scheduling Queue-to-Queue Propagation	12-28
12-51	Verifying a Queue Type	12-29
12-52	Altering a Propagation Schedule to Queues in the Same Database	12-29
12-53	Altering a Propagation Schedule to Queues in Another Database	12-30
12-55	Enabling a Propagation to Queues in Another Database	12-30



12-56	Disabling a Propagation to Queues in the Same Database	12-30
12-57	Disabling a Propagation to Queues in Another Database	12-31
12-58	Unscheduling a Propagation to Queues in the Same Database	12-31
12-59	Unscheduling a Propagation to Queues in Another Database	12-31
C-1	Adding Static Service Information for a Listener	C-8
C-2	Configuring MGW_AGENT	C-9
C-3	Creating a Messaging Gateway Administrator User	C-10
C-4	Creating a Messaging Gateway Agent User	C-10
C-5	Configuring Messaging Gateway Connection Information	C-11
C-6	Setting Java Properties	C-13
C-7	Creating a Messaging Gateway Agent	C-20
C-8	Removing a Messaging Gateway Agent	C-20
C-9	Setting Database Connection Information	C-21
C-10	Setting the Resource Limits	C-21
C-11	Starting the Messaging Gateway Agent	C-22
C-12	Shutting Down the Messaging Gateway Agent	C-22
C-13	Configuring a WebSphere MQ Base Java Link	C-25
C-14	Configuring a WebSphere MQ JMS Link	C-27
C-15	Configuring a WebSphere MQ Base Java Link for SSL	C-28
C-16	Configuring a TIB/Rendezvous Link	C-30
C-17	Altering a WebSphere MQ Link	C-30
C-18	Removing a Messaging Gateway Link	C-31
C-19	Listing All Messaging Gateway Links	C-31
C-20	Checking Messaging System Link Configuration Information	C-31
C-21	Registering a WebSphere MQ Base Java Queue	C-32
C-22	Unregistering a Non-Oracle Queue	C-33
C-23	Checking Which Queues Are Registered	C-33
C-24	Creating a Messaging Gateway Propagation Job	C-35
C-25	Enabling a Messaging Gateway Propagation Job	C-35
C-26	Disabling a Messaging Gateway Propagation Job	C-35
C-27	Resetting a Propagation Job	C-36
C-28	Altering Propagation Job by Adding an Exception Queue	C-36
C-29	Altering Propagation Job by Changing the Polling Interval	C-36
C-30	Removing a Propagation Job	C-37
C-31	Transformation Function Signature	C-49
C-32	Creating a Transformation	C-49
C-33	Registering a Transformation	C-49



C-34	Outbound LCR Transformation	C-50
C-35	Inbound LCR Transformation	C-51
C-36	Sample Messaging Gateway Log File	C-62
C-37	Sample Exception Message	C-63

