

Chapter 1: DB2 Replication and Publishing Overview

Client Specific Performance Objectives and Examples	1
Introduction	2
Replication Options	3
DB2 Versions	4
Replication Uses	4
Data Distribution	5
Data Consolidation	6
Bidirectional Replication	7
Peer-to-Peer Replication	8
SQL Replication Components	9
Administration	10
Capture	11
Control Tables for Capture and Apply	11
Capturing Data from a Source Table	12
Bi-directional Replication	13
Peer-to-Peer Replication	14
Apply	15
Applying Data to a Target	15
Creating a Subscription Set	16
Applying Data to a Target	17
Alert Monitor	18-19
SQL Replication Tasks	20
Defining Source and Target Servers	21
Control Tables for Capture and Apply	21-22
Alert Monitor	23
Registering a Source Table	24
Defining a Subscription Set	25
Creating a Subscription Set	26
Defining an Empty Subscription Set	27
Creating a Subscription Set	27
Defining Subscription Set Members	28
Creating a Subscription Set	28-30
Capture Threads	31
SQL Replication	31
Apply Threads	32
LSN: Log Sequence Number	33
Apply Operation	34
Alert Monitor Operation	35-36
New in Version 8: Administration	37
New in Version 8: Capture	38
New in Version 8: Apply	39
New in Version 8: Monitor	40
New in Version 8: Troubleshooting	41
Memory Utilization: Capture	42
Memory Utilization: Apply	43
Storage	44
Replicating Data Between Databases with Compatible Code Pages	45
asncpl Commands for SQL Replication	46

Chapter 5: Subscription Set

Client Specific Performance Objectives and Examples	1
Introduction	2
Creating a Subscription Set	2
Subscription Set Members	2-3
Planning	4-5
Grouping Members to Subscription Sets	6
Apply Qualifier	6
One Apply Qualifier Per Subscription Set	6
One Apply Qualifier Processes Multiple Subscription Sets	7
Defining Subscriptions Using the Replication Center	8-9
Adding Subscription Members to Existing Subscription Sets	10-12
Target Types	13-15
Scheduling Replication	16

Chapter 6: Capture and Apply Operations

Client Specific Performance Objectives and Examples	1
Introduction	2
Capturing Data from a Source Table	2
Basic Operations from the Replication Center	3
Starting Capture	4
Capturing Data from a Source Table	5
Capture Commands	6
Capture Parameters	7
Running Apply	8
Applying Data to a Target	8
Starting Apply	9
Stopping Capture	10
Stopping Apply	11
Querying Status	12
Apply Commands	13
Apply Parameters	14
Pruning Control Tables	15
Reinitializing Capture	16
Suspend and Resume Capture	17
Using ANSLOAD	18

Chapter 2: Using the Replication Center

Client Specific Performance Objectives and Examples	1
Introduction	2
Hardware Requirements	3
Replication Server Requirements	4
Opening DB2 Replication Center	5
SQL Replication Icons	6
The DB2 Replication Center Profile	7-9
Password Management	10
asnpwd Command	11
Replication Center Dialog Windows	12
Run Now or Save SQL	13
Launchpad	14
Updates to the Replication Center	15

Chapter 3: Replication Control Tables

Client Specific Performance Objectives and Examples	1
Introduction	2
Control Tables for Capture and Apply	2
Creating Control Tables	3-4
Capture Tables	5-6
Creating Apply Control Tables	7-9
Applying Tables	10
Creating Multiple Sets of Capture Control Tables	11

Chapter 4: Replication Sources

Client Specific Performance Objectives and Examples	1
Introduction	2
Capturing Data from a Source Table	2
Define a Replication Source using the Replication Center	3
Selecting the Replication Sources	4
Defining the Registration Options	5
Row Capture Options	6
Before Images	6-7
Conflict Detection	8-9
Vertical Subsetting	10
CD Table	11-12
CD Table Size	13
Views as Replication Sources	14
Views Over Multiple Tables	15
Restrictions on Views	16

Chapter 7: Monitoring SQL Replication

Client Specific Performance Objectives and Examples	1
Introduction	2
Examining Program Throughput	3-4
Apply Reports	5
Creating Monitor Control Tables	6
Monitor Control Tables: Contacts	7
Monitor Control Tables: Conditions	8-9
Monitor Control Tables: Alerts	10
Monitor Control Tables: Monitor Servers	11
Monitor Control Tables: Monitor Parameters	12
Monitor Control Tables: Monitor Trace	13
Creating Contacts	14-15
Alert Conditions	16-19
asnmom Command	20
Receiving an Alert	21
Examining Historic Data	22
Replication Analyzer - asnanalyze	23-25
Replication Trace - antrc	26