Sybase® IQ Quick Start

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Торіс	Page
Introduction	2
Demo database	2
Table names	2
Creating and using an IQ demo database	3
Converting the IQ demo database to multiplex	9
Starting the IQ Agent	9
Converting to multiplex	10
Adding a multiplex server (manual method)	24
Creating the multiplex server definition	24
Synchronizing and starting the multiplex server (manual method)	26
Adding a temporary store file (manual method)	28
Loading data	28

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Introduction

This document describes how to create and query an IQ demo database. You can create any number of copies of the database in any directory that you choose, and can re-create it at any time.

You can also use the demo database to create and use an IQ multiplex. An IQ multiplex is multiple IQ servers that access the same IQ store by way of a shared disk cluster. For demonstration purposes, you can use a file system file that is shared by multiple IQ servers. This setup simulates an IQ multiplex environment.

To query or update the database, you can use either Interactive SQL (dbisql) or Sybase Central, both of which are provided with the IQ server installation.

Sybase suggests that you do not cut and paste the commands directly from this document; extra characters have been added for formatting. Either manually type the command, or cut and paste it to Notepad or vi, edit it to remove any formatting characters, then copy and paste it to the command line.

Demo database

The demo data supports an imaginary sporting goods company. The iqdemo database has been updated for IQ version 15.0.

Table names

If you are upgrading from an earlier version, see the following table for a list of current table names in the iqdemo database. Use this table to update scripts or applications.

12.7 name	15.0 name	15.0 owner
contact	Contacts	GROUPO
customers	Customers	GROUPO
department	Departments	GROUPO
emp1	emp1	DBA
employee	Employees	GROUPO
fin_code	FinancialCodes	GROUPO
fin_data	FinancialData	GROUPO
product	Products	GROUPO
sale	sale	DBA
sales_order_items	SalesOrderItems	GROUPO
sales_order	SalesOrders	GROUPO

Table 1: Demo database table names

Creating and using an IQ demo database

- 1 Install Sybase IQ Server. See the *Sybase IQ Installation and Configuration Guide*.
- 2 Create the demo database.
 - On UNIX
 - Change to the IQ install directory and source the IQ environment:
 - cd <IQ install directory>/IQ-15_0
 - source IQ-15_0.csh
 - Change to the directory where you want to create the database:
 - cd /myiqdemo
 - Run the following command:
 - \$IQDIR15/demo/mkiqdemo.sh
 - On Windows
 - Open a command window:
 - Start | Programs | MS-DOS Prompt or Start | Run and enter cmd.
 - Change to the directory where you want to create the database, using either of the following:

- c:
- cd c:\myiqdemo
- Run:

"%ALLUSERSPROFILE%\SybaseIQ\demo\mkiqdemo"

• To create the demo database in a predetermined location, click:

Start | Programs | Sybase | Sybase IQ 15.0 | Start Sybase IQ Demo Database.

- To list all the options to customize database creation, execute:
 - On UNIX -\$IQDIR15/demo/mkiqdemo.sh -help
 - On Windows -"%ALLUSERSPROFILE%\SybaseIQ\demo\mkiqdemo" -help

An IQ database consists of multiple stores. The paths to an IQ store can be relative or absolute.

You can create the demo database using either relative or absolute paths. If you want to copy or move your demo database around, it is easier to use a relative path. This is the default option for *mkiqdemo*.

Note IMPORTANT: To convert your demo database to a multiplex, you must use absolute paths.

- On UNIX
 - Change to the directory where you want to create the database:

cd /myiqdemo

• Use the -absolute switch:

\$IQDIR15/demo/mkiqdemo.sh -absolute

- On Windows
 - Open a command window:
 - Select **Start | Programs | MS_DOS Prompt** or **Start | Run** and enter **cmd**.
 - Change to the directory where you want to create the database

с:

cd: \myiqdemo

- Run: "%ALLUSERSPROFILE%\SybaseIQ\demo\mkiqdemo"
 -absolute
- 3 If SQL Anywhere or an earlier version of Sybase IQ resides on the same machine or subnet as Sybase IQ 15.0, edit the *iqdemo.cfg* configuration file. By default, both products use the default port 2638; therefore, you must change the port for your IQ Server.

In addition, to avoid confusion on shared systems, add your user name to the server name to make it unique. For example, if your user name is *jsmith*, you might use *jsmith_iqdemo* as the server name for the demo database.

The *iqdemo.cfg* file is created in the same directory as the demo database. You can edit this file and change the startup parameters. You can also copy this file and change the startup parameters to make configuration files for any of your databases.

4 Start the IQ server. Change to a directory where the configuration and database files reside and issue a command in this format:

start_iq @configuration_file.cfg dbname.db

For example, to start the demo database, enter:

start_iq @iqdemo.cfg iqdemo.db

- 5 Start Interactive SQL Java, the query tool.
 - On UNIX, type dbisql at the system prompt.
 - On Windows, click **Start | Programs |Sybase IQ 15.0 | Interactive SQL Java** and enter dbisql in a command shell, or select **Start | Run** and enter dbisql.

- 6 Connect to the demo database:
 - In the Connect dialog, enter **DBA** for the User ID and **sql** for the Password.

Figure 1	:	Connect	dialog
----------	---	---------	--------

Connect	×
Identification Database Network Advanced	\otimes
The following values are used to identify yourself to the database	
Supply user ID and password	
User ID: DBA	
Password: ***	
C Use integrated login	2)
You can use default connection values stored in a profile None ODBC Data Source name	
Browse	1 991
C ODBC Data Source file	
Browse	
SQL Anywhere	Help

• On the Database tab, click **Find** and select the server name. If the server name is not listed, type the server name, and then click **OK**.

onnect				
Identification Database	e Network Advanced			8
The following i	nformation identifies the	database server		
Server name: pc6	2573_iqdemo			Find
Start line:		· · · · · · · · · · · · · · · · · · ·		•
Database <u>n</u> ame:				
Database <u>f</u> ile:	[•	Browse
Encryption key:	Γ			
🔽 Start database	automatically			
🔽 Stop database	after last disconnect			

Figure 2: Finding the server

7 Run a test query to view columns in the sale table. In the top window (SQL Statements), type:

SELECT * FROM sale

Click **Execute** (right-facing triangle in the button bar) or use the F5 key.

ର୍ଷ iqde	mo (DBA)	on PC62573_iq	demo		- 02
Elle Ed	sk ∑QL I	Data Favorites	<u>I</u> ools <u>₩</u> ir	ndow Help	
(1)	1 時 🕨				
SQL St	atements				
1	select *	from sale			
2					
3					
4					
5					2
	•			-	<u>></u>
Result	5				
	prod_id	month_num	rep_id	sales	
1	10	1	1	100	
2	10	1	:2	150	
3	10	2	1	120	
4	10	3	1	100	
5	10	4	1	130	
6	10	5	1	120	
7	10	5	2	31	
8	10	6	1	110	
9	20	1	1	20	
10	20	2	1	30	
11	20	3	1	25	
12	20	4	1	30	×
Results	Message	s			
Line 1	Column 19	I.	191	ows	

Figure 3: Running a test query

8 To exit Interactive SQL Java, select File | Exit or enter quit and click Execute or use the F5 key.

Converting the IQ demo database to multiplex

Verify that the demo database was created using absolute paths (–absolute option). If the demo database uses relative paths, the multiplex creation fails.

A single server (IQ demo database) is converted to a multiplex server by adding a secondary server; you can do this using Sybase Central. After the conversion, you can use Sybase Central to manage the multiplex. All servers in the multiplex appear in a single Multiplex folder.

Starting the IQ Agent

Before you start Sybase Central, start the IQ Agent on the machines where the IQ servers will be running.

On UNIX

On UNIX, start the agent using the S99SybaseIQAgent15 script.

- Command S99SybaseIQAgent15 starts the agent at default port 1099.
- Command S99SybaseIQAgent15 –port 3871 starts the agent at port 3871.

To verify the agent is Execute: running

stop_iq-agent

For example, the following agent is owned by user 'smith'

##owner	PID	Started	CPU Time	Additional Information
1: smith	15549	Feb. 18	10:38	PORT:2008
java -Diq.ag	ent=/sun	625742/user	s/smith/syba	ase/IQ-15_0/java/IQAgent15.jar -D

To verify the agent log The agent log file is \$*IQDIR15/logfiles/SybaseIQAgentNNNN.MMM.log* where *NNNN* is the port number and *MMM* is a sequential number. If the environment variable *IQLOGDIR15* is set, the agent log files are in the \$*IQLOGDIR15* directory.

On Windows

On Windows, the agent is configured to run as a service. Start the Services Manager application to verify the agent is running.

Services					
The Action New					
		1-		1	1
මය Services (Local)	Name /	Description	Status	Startup Type	Log On As 🕴 🔺
	Rea Smart Card	Manages a	Started	Automatic	Local Service
	SQL Server (SQLEXPRESS)	Provides st		Manual	Network S.,
	SQL Server Active Directory Helper	Enables int		Disabled	Network 5
	SQL Server Browser	Provides S		Disabled	Network S
	SQL Server VSS Writer	Provides th	Started	Automatic	Local System
	SSDP Discovery Service	Enables dis	Started	Manual	Local Service
	Sybase IQ Agent 15		Started	Automatic	Local System
	System Event Notification	Tracks syst	Started	Automatic	Local System
	System Restore Service	Performs s	Started	Automatic	Local System
	Stask Scheduler	Enables a	Started	Automatic	Local System
	TCP/IP NetBIOS Helper	Enables su	Started	Automatic	Local Service
	a Telephony	Provides T	Started	Manual	Local System
	40 Teinet	Enables a r		Disabled	Local System
	Rea Terminal Services	Allows mult	Started	Manual	Local System
	Rea Themes	Provides u	Started	Automatic	Local System
	Counterruptible Power Supply	Manages a	3.99464	Manual	Local Service
	Subjects and Play Device Host	Provides s		Manual	Local Service
	Revisual Studio 2005 Remote Debugger	Allows me.		Disabled	Local System
	SavNC Server Version 4			Manual	Local System
	Burning Shaday Came	Minner's		54 nores of	Lard Carton
	Extended & Standard				
(A STATE OF A		T		

Figure 4: Services manager

To verify the agent log:

The agent log file is

%ALLUSERSPROFILE%\SybaseIQ\logfiles\SybaseIQAgent.NNN.log where NNN is a sequential number. If the environment variable IQLOGDIR15 is set, the agent log files are in the %IQLOGDIR15% directory.

Converting to multiplex

- Converting the IQ demo database to multiplex
 - 1 Launch Sybase Central.
 - On UNIX, type **scjview** at the system prompt.

- On Windows, click Start | Programs | Sybase | Sybase IQ 15.0 | Sybase Central Java Edition.
- 2 Select Connections | Connect with Sybase IQ 15... In the Connect dialog, type DBA for the User ID and sql for the Password.

Figure 5: Connecting, ID tab

Connect	×
Identification Database Network Advanced	\bigotimes
The following values are used to identify yourself to the database	
Supply user ID and password	
User ID: DBA	
Password: ***	
C Use integrated login	
You can use default connection values stored in a profile Ngne ODBC Data Source name Erowse	1
C ODBC Data Source file	
Browse	
<u>T</u> ools ▼ OK Cancel H	elp

On the Database tab, click **Find** and select the server name. If the server name is not listed, type the server name, then click **OK**.

Connect		2
Identification Database	Network Advanced	8
The following in	ormation identifies the database s	server
Server name: pc62	i73_iqdemo	Find
Start line:		
The following in Database name: Database file:	ormation identifies the database	Browse
Encryption key:		
🔽 Start database g	utomatically	
☑ Stop database a	ter last disconnect	
	<u> </u>	OK Cancel Help

Figure 6: Connecting, Database tab

3 Increase the file size in IQ_SYSTEM_MAIN: In the folders view, double-click the DBSpaces folder. Then select the IQ_SYSTEM_MAIN folder. On the Files tab, right-click the file IQ_SYSTEM_MAIN and select **Properties**. In the Properties dialog, enter 50 in **Modify In Use**. This increases the IQ_SYSTEM_MAIN space to 50MB.

🖄 File Prope	erties		×
General			
<u>N</u> ame:	IQ_SYSTEM_MA	IN	
<u>P</u> ath:	C:\myiqdemo\id	idema.iq	
		E	towse
Mode:	€ Read <u>W</u> rite	C Read <u>O</u> nly	
In Use:	25	<u>U</u> nits:	МВ
Reserved:	200		
Total Size:	225	Modify <u>I</u> n Use:	50
DBSpace:	IQ_SYSTEM_MAI	N	
Status:	Online		
0	Cancel	Apply	Help

Figure 7: File Properties

4 Click **OK**.

5 To confirm the agent port in the folders view, under the Servers folder, right-click the **iqdemo** server icon and click **Properties**.

Figure 8: iqdemo	Server Properties
------------------	-------------------

PC62573_iqdemo Serv	er Properties
Seneral Configuration E×	tended Information Options Request Logging
1	PC62573_jqdemo
Type:	Coordinator Server
Product:	Sybase IQ
Version:	15.0.0.5120 (Build ID: 090218)
Host/Port:	PC62573 / 2638
Operating system:	WindowsXP
Operating system version:	Windows XP Build 2600 Service Pack 2, 32bit
Agent Version:	15.0.0 Properties
The server configuration fil	e contains server startup parameters (options).
Server <u>C</u> onfiguration File:	C:\myiqdemo\params.cfg
	Edit Config File
Multiplex Role:	C Reader C Writer © Coordinator
Multiplex Status;	Included C Excluded
	OK Cancel Apply Help

Click the **Properties** button next to Agent Version.

Figure 9: Agent Properties

🖳 Agent	Properties		×
General	1		
-	IQ Agent for P	C62573_iqdemo	
	Host Machine:	PC62573	
	Agent Version:	15.0.0 - 090218	
	IQ Version:	15.0.0	
	Port Number:	1099	
	Timeout:	<u>.</u>	
	member agent se	ttings	
ОК	Cancel	Apply	Help

Verify that the agent port is the one on which you started the agent.

6 In the folders view, under the Servers folder, right-click the **iqdemo server** icon and choose **Convert to Multiplex**.

gpc62573 - Remote Des	sktop						المالد.
Sybase Central							
Elle Edit Yiew Iools S	onnections Mode Help)					
** • • •	1 3 • 5 •	P • 0	X 🗈	₿ × ×) (≈] 6 7		
Context: 🏦 Sybase Central	/Sybase IQ 15/Servers/P	C62573_jqdetno					
% Tools • 区 资 (9 88						
Folders	×	PC62573_)	qdemo	*****			*****
Sybase Central		Databases Al	Connected	Users Perfor	mance Monitor		
Sybase IQ 15		Name	ID	Page Size	Database File	User	Conn. ID
B Servers		iqdemo	0	409	6 ⊂:\myiqdemo\iqdemo.db	DBA	3
PC62573	Agent	•					
	Create Database						
* Qo	Start Database						
⊕ ⊡ €	Convert to Multiplex						
de la	Stop Server						
α¶α÷ α¶α÷	P Properties						
Õ.	View logs	,					
田 田 Pr 田 G Public	ations	T.					
🕀 🚽 Remo	te Servers						
SQL R	tempte Subscriptions						
E 20 Syste	tn Triggers						
🕀 🋄 Table	\$						
(# E) Trigge	8 Groups						
d 22 Users	Doliciac						
							<u></u>

Figure 10: Folders view

7 This starts the Create Server wizard.

Figure 11: Create Server Wizard

Lreate Server Wiz	ard				
Je Configuration ecify configuration in rds, unique names ar	formation for the new r Id ports may be specifie	multiplex node. On a host with multiple ad for each card.	e network		\prec
Specify the name fo	r this new <u>m</u> ultiplex:	PC62573_jqdemo_mpx			
Specify the new sec	ondary server's informa	stion:			
Connection Profile:	<other></other>				
Server Name:	PC62573_iqdemo_w1				
Host Information:	Hostname	Port Number		-1	
	PC62573	2639	Add		
			Drop		
Agent Port:	1099				
Mode:	C Reader	G Writer			
🔽 Register new no	ide as the designated f	all-gyer node.			
☑ Create administ	rative shell scripts.				

Fill all fields as shown.

- Multiplex Name:
 - Defaults to the original single server name.
 - This is a logical name of the multiplex used to uniquely identify the multiplex within Sybase Central.
- Server Name:
 - Name of the first secondary server.

- Must be different from the original server, which becomes the coordinator server for the multiplex.
- Host Information:
 - Host name For the demonstration, use the same host as the original server. This sets up the multiplex with multiple servers on the same host. In a production setup, use different hosts for each multiplex server.
 - Port Number Specify a unique port number for the secondary server. This Port Number defaults to the original server port number + 1.
 - You can add multiple host and port pairs here, to configure a single server with multiple network addresses. In most cases, a multiplex server only has a single network address.
- Agent Port enter the port where the agent is started. The default port is 1099.
- Mode select **Writer** (the default is Reader). Later, you will load data from this node.
- Select Create administrative shell scripts.
- 8 Click Next. Choose the path for the catalog database. This should be a different directory than where you created the IQ demo database. You can create a subfolder under the directory where the demo database was created.

Create Server Wizard		×
Specify Paths To Db Stores		
Specify the path to the new database file on the sec	condary host:	
C:\myiqdemo\w1\iqdemo.db		
This path should exist locally on the given host.		Browse
✓ Use coordinator's configuration options		
	< Back	nish Cancel

Figure 12: Database Path

Complete the information on the Database Path page:

- Database path
 - The database path is an absolute path to the *db* file for the new multiplex secondary server.
 - This path must be different from the existing database's *db* file path. Sybase suggests that you use *iqdemo.db* as the file name; typically you can use any name you want.

- Select **Use coordinator's configuration options**. This option copies the params.cfg options used for the existing database to the new multiplex server's *db* directory.
- 9 Click Next. If the directory does not exist, click Yes when you are asked if you want to create it. The Temporary Dbspace Configuration page appears.

Figure 13:	: Temporary	Dbspace	Configuration
------------	-------------	---------	---------------

🖄 Create Server Wizard			×
Temporary Dbspace Con Specify Temp Dbspace Path Reserve space allows the DI once set.	hanged		
Specify the path to the te	mporary dbspace file:		
iqdemo_w1.iqtmp			
🦵 This is a raw dev	ice.		Browse
Fijle size:	300 MB 💌		
Reserve Size:	300 Megabytes		
		< Back Next >	Errish Cancel

Complete the information on the Temporary Dbspace Configuration page.

• Temporary dbspace file path: *iqdemo_w1.iqtmp*. The temporary *dbspace* file path may be absolute or relative to the database *.db* file path. Choose a unique file name.

- This is a raw device leave unselected.
- The file size is 300 MB.
- The reserve size is 300.
- 10 Click Next. Review your settings.

Figure 14: Review of settings

🖄 Create Server Wizar	d		×
Review of settings			
Review configuration infor	mation prior to creating a new multiplex server.		6
Server Name:	PC62573_jqdemo_w1 (Writer)		
Host / Port:	PC62573 / 2639		
Agent Port / Version:	1099 / 15.0.0		
Database Name:	iqdemo		
Database File:	C:\myiqdemo\w1\iqdemo.db		
IQ Store:	C:\myiqdemo\iqdemo_main.lq		
Temp Store:	iqdemo.iqtmp		
Create Conne	ection Profile for PC62573_iqdemo_w1		
	Press the Finish button to create the multiplex server		
	< <u>Back</u> Mext > Einish	Can	cel

11 Click **Finish**. This creates the new multiplex secondary server files and configures the database for multiplex. This operation may take several minutes.

In the Sybase Central Folders view, note that the multiplex name has been inserted into the Multiplexes folder. Expand the multiplex name to view the servers in the multiplex.



Figure 15: Sybase Central

12 In the Sybase Central main window, click the **Topology** tab to display the multiplex topology view. This is a graphical view of the multiplex configuration, which displays the status of each server and the communication links between servers. You can execute most multiplex operations either from this view or from the Servers view.



Figure 16: Topology tab

Adding a multiplex server (manual method)

The current multiplex configuration contains two servers: the coordinator server and one multiplex writer server. Use the instructions in this section to manually add a second multiplex server using Interactive SQL, and a reader role. The new server is called PC62573_iqdemo_r2.

Alternatively, you can launch the Create Server wizard in Sybase Central by selecting **File** | **Add Server**.

The following steps are required when you are manually creating a multiplex server; if you are using the Create Server wizard, these steps are automatically performed by Sybase Central.

Creating the multiplex server definition

Define the multiplex server in the database system table SYSIQMPXSERVER.

- Defining the multiplex server manually
 - 1 From the Sybase Central Folders view, launch Interactive SQL.



Figure 17: Sybase Central

- 2 In Interactive SQL, type the following command, providing the following:
 - DATABASE
 - A full *db* file path in a local directory to contain the PC62573_iqdemo_r2 server's files
 - A correct path, as an incorrect path is not detected until it is time to synchronize the new multiplex server.
 - HOST the name of the local host
 - PORT a unique port number on the local host. Following the conventions of this demo uses port 2640.

On UNIX -

```
CREATE MULTIPLEX SERVER SUN62574_iqdemo_r2
DATABASE '/myiqdemo/r2/iqdemo.db' ROLE READER
HOST 'SUN62574' PORT 2640
```

On Windows -

```
CREATE MULTIPLEX SERVER PC62573_iqdemo_r2
DATABASE 'C:\myiqdemo\r2\iqdemo.db' ROLE READER
HOST 'PC62573' PORT 2640
```

- 3 Click the **Play** icon or press **F5** to execute the command.
- 4 To view the new multiplex configuration for all servers, execute the sp_iqmpxinfo stored procedure, which produces the following output:

server_name

1 PC62573 jgdemo

2 PC62573_iqdemo_w1

3 PC62573_jqdemo_r2

S ige

Ele da i SQL

server_id

Results Messages

1

2

3

lemo (DBA) on Pl	C62573_iqdemo					
Edit SQL Qata	Favorites Looks	Window B	elp			
0 🔶 🕨 🔳						
itatements						
sp_iqapxinfo						

db_path

C:1mysgdemoligdemo.db

C:lymyiqdemolw1lygdemo.db

c:\myiqdemo\r2\u00e9qdemo.db

status

included

included

included

mpx_mode

coordinator

writer

unknown

role

coordinator

virker

reader

Figure 18: iqdemo (DBA)

connection_info

host=10.18.60.119:2638

host=PC62573:2639

host=PC62573:2640

111 3 rows

Synchronizing and starting the multiplex server (manual method)

Generate a *db* file from the coordinator's catalog store and copy it to the newly created reader server's directory, then start the new server.

Alternatively, you can do this in Sybase Central by right-clicking the multiplex server icon and selecting **Control | Synchronize**.

Manually starting the multiplex server

- 1 If it has not been created already, create the multiplex server directory. Following the convention of this demo, the multiplex directory is:
 - **On UNIX** /myiqdemo/r2
 - **On Windows** *C*:*myiqdemo*
- 2 Change to the newly created multiplex server directory:
 - **On UNIX** *cd /myiqdemo/r2*
 - **On Windows** *cd C:\myiqdemo*
- 3 If it does not exist, copy the *params.cfg* from the coordinator directory to the reader's directory.

- 🗆 X

inc_state

21

NIA

active.

timed out

- 4 If a previous transaction log file exists in the directory (for example, *mpx.log*), remove it. Leaving old transaction logs in a multiplex server directory after synchronizing may stop the server from starting.
- 5 From the command line, run the following commands, substituting the appropriate path name, host name, and server name for the new multiplex server:
 - On UNIX –

```
dbbackup -y -d -c
'uid=DBA;pwd=sql;eng=SUN62574_iqdemo;links="tcp
ip{host=SUN62574;port=2638}"' .
rm -rf "iqdemo.log"
dblog -r -t "iqdemo.log" "iqdemo.db"
start_iq @params.cfg -n SUN62574_iqdemo_r2 -x
"tcpip{host=SUN62574;port=2640}" iqdemo.db
```

• On Windows –

```
dbbackup -y -d -c
"uid=DBA;pwd=sql;eng=PC62573_iqdemo;links=tcpip
{host=PC62573;port=2638}" .
erase /F /Q "iqdemo.log"
dblog -r -t "iqdemo.log" "iqdemo.db"
start_iq @params.cfg -n PC62573_iqdemo_r2 -x
"tcpip{host=PC62573;port=2640}" iqdemo.db
```

Generally, you would use ODBC DSN for dbbackup, and edit the configuration file, add the links information, and the server name in the configuration file to start the server.

6 Confirm that the server is running by connecting to it using Interactive SQL.

Adding a temporary store file (manual method)

This procedure adds a temporary store file for the secondary node. You cannot perform queries on IQ data until you add a temporary store file. You can repeat this step as needed to add additional temporary store files if you require more temporary storage. Both the coordinator node and the secondary node must be running to perform this operation.

Adding a temporary store

- 1 Use Interactive SQL to connect to the reader.
- 2 Run the following command, substituting the appropriate file path. The temporary store file path must be a unique path for each server or host. The path may be absolute or relative, as long as the path resolves to a separate physical file for each multiplex server.
 - On UNIX –

ALTER DBSPACE IQ_SYSTEM_TEMP ADD FILE iqdemo_r2_temp 'iqdemo_r2_temp.iqtmp' SIZE 300 RESERVE 300

• On Windows –

ALTER DBSPACE IQ_SYSTEM_TEMP ADD FILE iqdemo_r2_temp 'iqdemo_r2_temp.iqtmp' SIZE 300 RESERVE 300

Execute sp_iqdbspace 'IQ_SYSTEM_TEMP' to confirm that reader now has free temporary space.

Loading data

In this section, you load data into the multiplex database using the coordinator and a writer. This is the most efficient use of multiplex resources because it distributes the workload to multiple servers. In this demonstration, different servers are used in serial to load data. In a production environment, you can perform loads on separate tables in parallel from multiple servers.

This demonstration uses the Contacts and SalesOrderItems tables using the load files that ship with IQ 15.0.

On UNIX, these files are in \$IQDIR15/demo/adata.

On Windows, these files are in %ALLUSERSPROFILE%\SybaseIQ\demo\adata.

Substitute the appropriate path to these input files in the LOAD statements below.

* Loading data from the coordinator

- 1 Use Interactive SQL to connect to the coordinator server PC62573_iqdemo.
- 2 Truncate the *Contacts* table because it gets loaded with the same data during the creation of the demo database.
- 3 Load the Contacts table.

On UNIX –

TRUNCATE TABLE Contacts;

```
LOAD TABLE Contacts (ID, Surname,GivenName,
Title, Street, City, State, Country, PostalCode,
Phone, Fax, CustomerID)
USING FILE '/IQ-15_0/demo/adata/contact.dat'
ROW DELIMITED BY '|'
ESCAPES OFF;
```

COMMIT;

On Windows -

TRUNCATE TABLE Contacts;

```
LOAD TABLE Contacts (ID, Surname,GivenName,
Title, Street, City, State, Country, PostalCode,
Phone, Fax, CustomerID)
USING FILE
'C:\Documents and Settings\All
Users\SybaseIQ\demo\adata\contact.dat'
ROW DELIMITED BY '|'
ESCAPES OFF;
```

COMMIT;

* Loading data from the writer

1 Use Interactive SQL to connect to the writer server PC62573_iqdemo_w1 server.

- 2 Truncate the *SalesOrderItems* table, as it gets loaded with the same data during the creation of the demo database.
- 3 Load the *SalesOrderItems* table.

On UNIX -

TRUNCATE TABLE SalesOrderItems;

```
LOAD TABLE SalesOrderItems (ID, LineID,
ProductID, Quantity, ShipDate)
USING FILE '/IQ-15_0/demo/adata/sales_oi.dat'
ROW DELIMITED BY '|'
ESCAPES OFF;
```

COMMIT;

On Windows -

TRUNCATE TABLE SalesOrderItems;

```
LOAD TABLE SalesOrderItems (ID, LineID,
ProductID, Quantity, ShipDate)
USING FILE 'C:\Documents andSettings\All
Users\SybaseIQ\demo\adata\sales_oi.dat'
ROW DELIMITED BY '|'
ESCAPES OFF;
```

COMMIT;

Now that data has been loaded into the database, you can execute queries against the data from any server in the multiplex. You can use this base multiplex for further experimentation. You can also explore how to perform additional operations on this data by adapting the iqdemo scripts.

Note If you have questions about installing or running the software, contact Sybase Technical Support or the Sybase subsidiary in your area.