第8章:执行备份和恢复

目的

本章向您介绍通过 Enterprise Manager 执行的 Oracle Database 备份和恢复操作。

主题

本章讨论了以下内容:

- 配置闪回恢复区和 ARCHIVELOG 模式
- 配置备份设置和策略
- 定义 DBID 和 DB_UNIQUE_NAME 的值
- 执行完整的数据库备份
- 利用 Oracle 建议的备份策略对数据库进行备份
- 还原和恢复整个数据库
- 执行闪回表
- 执行闪回丢弃
- 管理备份

配置 闪回恢复区和 ARCHIVELOG 模式

闪回恢复区是为 Oracle 数据库中的所有与恢复相关的文件和活动提供的一个统一的存储位置。将数据库从 介质故障中完全恢复过来所需的全部文件都属于闪回恢复区。可以在闪回恢复区中创建的与恢复相关的文件包 括:存档重做日志文件、控制文件、由恢复管理器 (RMAN) 创建的备份、闪回日志和修改跟踪文件。Oracle 推 荐在与数据库文件所在相同的磁盘上创建修改跟踪文件。实际上,如果您安装了 OMF,并执行了启用修改跟踪 的命令,那么将自动在为数据库文件指定的目录中创建跟踪文件。通过分配一个存储位置并将相关的恢复文件统 一在一个特定的区域内,Oracle 数据库服务器使数据库管理员不必再管理由这些组件创建的磁盘文件。当创建 闪回恢复区时,您可以选择一个目录、文件系统或自动存储管理磁盘组来存放文件,并为闪回恢复区中用于存储 所有文件的最大空间设置一个磁盘限额。您必须选择一个足够大的区域,以容纳所需的磁盘限额。当接近磁盘空 间界限时,Oracle 服务器可以根据 RMAN 保留策略的界限来删除非必要的文件,为新文件腾出空间。闪回恢 复区应该在一个与工作区分离的磁盘上,其中存储着在增量备份中使用的活动数据库文件(如数据文件、控制文 件、在线重做日志和修改跟踪文件)。将闪回恢复区和工作区置于相同的磁盘上,当出现磁盘故障时,很容易使 您同时丢失活动的数据库文件以及备份。当您创建数据库时,可以配置闪回恢复区和 ARCHIVELOG 模式。如 果您在您创建数据库时没有执行这些任务,那么请按照以下步骤来配置闪回恢复区和 ARCHIVELOG 模式。 1. 在操作系统提示符下为闪回恢复区创建一个目录。执行下列命令:

cd \$ORACLE_BASE mkdir flash_rec_area

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Red Hat Linux Advanced Server release 2.1AS/i686 (Pensacola)	
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Last login: Tue Jan 6 08:50:54 from 141.144.96.236	
[oracle@EDCDR26P1 oracle]\$ cd \$ORACLE_BASE	
[oracle@EDCDR26P1 oracle]\$ mkdir flash_rec_area	
[oraclegebCuk26P1 oracle]	
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2. 打开浏览器,并指定用户名为 SYS,口令为 SYSDBA,以登录 Enterprise Manager Database Console。单击 Login 。

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3. 单击 Oracle Database Home 页面上的 Maintenance 。

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4. 在 Backup/Recovery 部分中选择 Configure Recovery Settings 。您可以使用 Configure Recovery Settings 页 面来配置恢复实用工具的设置,包括闪回恢复区。

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5. 出现 Configure Recovery Settings 页面。滚动至 Flash Recovery Area 部分。在相应字段中输入下列值来配置 闪回恢复区:

Flash Recovery Area Location: <在第 1 步中创建的目录步中创建的目录闪回恢复区所需的大小 pGY 0<> Flash Recovery Area Size: <闪回恢复区所需的大小> 向上滚动至窗口顶部。

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Flash	h Reco	overy Area					
It is hi	ighly reci	ommended that you use flash recovery area to automate you	ır disk backup managem	ient.			
	Flash	Recovery Area Location /u01/app/oracle/flash_rec_area/					
	FI	lash Recovery Area Size 2 GB Flash Recovery Area Size must be set wit	ien the location is set				
Use	ed Flash	Recovery Area Size (B) 0					
The flag	table flas sh recover ed point-in	hback logging for fast database point-in-time recovery" ry area must be set to enable flashback logging. When using flashback k -time recovery method in the recovery wizard when appropriate.	ogs, you may recover your e	ntire database to	a prior point-in-t	ine without restoring files. Flashback is the	
:	Specify	how far back you wish to flash the database in the future					
		Flashback Retention Time 24 Hou	rs 💌				
	С	urrent size of the flashback logs(GB) n/a					
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C Apply static par	changes ameters.	s to SPFILE only. Otherwise the changes will be made to bot	th SPFILE and the runni	ng instance w	hich requires t	hat you restart the database to invoke	+
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6. 选中 Archive Log Mode , 为数据库配置 ARCHIVELOG 模式。单击 Apply 。

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The FAST_START_M internal parameters and	TTR_TARGET initialization parameter specifies nd sets the recovery time as close as possible	the number of seco to these parameter	onds estimated s. Setting FAST	for crash reco _START_MT	very. Oracle converts this in IR_TARGET to 0 will disab	number into a le this functior	set of nality.	
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data may be lost in th	e event of database corruption.	s make a backup m	nineulatery. In N	OMPORTIVEL	oo mode, you can make o	my cold backt	ihe aun	
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Log Archive File	ename Format* [%t_%s_%r.dbf							
The naming conver	ntion for the archived log files. %s: log sequence number	r; %E thread number; 9	6S and %T: paddin	g the filename to	the left with zeroes.			
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7. 显示一条确认修改的消息。要完成 ARCHIVELOG 模式的配置,必须关闭数据库例程。单击 Yes,关闭例 程并重新启动它。



8. 显示 Restart Database:Specify Host and Target Database Credentials 页面。输入主机证书和数据库证书。单击 OK 。

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Restart Database:Specify Host and Target Database Credentials			
Specify the following credentials in order to restart the database.			
Host Credentials			
Specify the OS user name and password to login to target database machine.			
Usemame oracle			
Password			
Database Credentials			
Specify the credentials for the target database. To use OS authentication, leave the user nerve and cassword fields blank.			
Usemame sys			
Password			
Database orcl.us.oracle.com			
Connect As SYSDBA			
Save as Preferred Credential			
10 Note that you need to login to the database as SYSDBA or SYSOPER in order to restart the database.			
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9. 显示 Restart Database:Confirmation 页面。单击 Yes ,关闭例程并重新启动它。

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Restart Database:Confirmation		
Operation restart database after shutdown immediate Are you sure you want to perform this operation?		
Note that the following parameters have been used to startup the database. Please replace your initialization parameter file with the	following contents.	
spfile=7/u01/app/oracle/product/10.1.0/dbs/spfileorcl.ora"		
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10. 显示 Restart Database:Activity Information 页面。单击 Refresh , 登录 Enterprise Manager Database Control。

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Restart Database:Activity Information		
The database is currently being shutdown and restarted, this operation may take some time. Once this operation is complete you can log back in to the database.	press refresh and be prompted to	
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配置 备份设置和策略

您可以配置许多设置和策略来确定如何存储备份、备份哪些数据、如何执行备份,以及备份在从恢复区中清 除之前保留多久。您还可以配置特性来提高备份性能。

1. 单击 Oracle Database 主页上的 Maintenance 页面 。

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High Availability	Space Usage	Diagnostic Summary	
Instance Recovery Time (seconds) 10 Last Backup n/a Archiving <u>Disabled</u> Archive Area Used (%) n/a Flashback Logging <u>Disabled</u>	Database Size (GB) 1 Problem Tablespaces V 0 Segment Findings Violations Q Policy Violations Q Dump Area Used (%) Unavailable	Performance Findings 0 All Policy Violations 3 Alerts 0 Critical 8	
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2. 在 Backup/Recovery 区域中选择 Configure Backup Settings 。

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3. 滚动至 Configure Backup Settings 页面的 Host Credentials 区域。输入操作系统用户名和口令。向上滚动至 Disk Settings 部分。

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A bit-by-bit copy of database files that can be used as-is to perform recovery.	-
Tape Settings	
Tape drives must be mounted before performing a backup. You should verify that the tape settings are valid, by clicking on Test Tape Backup', before saving them.	(Test Tape Backup)
Tape Drives 1	
Concurrent streams to tape drives	
Media Management Vendor Library Parameters	
Example: ENV+(NSR_COMPRESSION+TRUE, NSR_DATA_VOLUME_POOL+test_pool)	
Tape Backup Type	
C Compressed Backup Set An Oracle proprietary format in compressed format which has to be restored before use.	
Host Credentials	
To save the backup settings, supply operating system login credentials.	
Username oracle	
* Password	
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Device Backup Set Policy	
	Cancel OK
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4. 接受 Device 页面上的 Disk Settings 部分中的 Parallelism 字段中的值 1。设置 Disk Backup Location 字段 为 null,以使用闪回恢复区进行备份。对 Disk Backup Type 选择 Backup Set 。单击 Test Disk Backup 。

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	An existing directory or diskgroup name where database files will be backed up. If you do not specify a location, database will be backed up to the first recovery area location.	files	
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	C Compressed Backup Set An Oracle proprietary format in compressed format which has to be restored before use.		
	C Image Copy A bt-by-bit copy of database files that can be used as-is to perform recovery.		
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5. 显示一条消息,指示磁盘设置备份测试成功完成。现在您将配置备份策略设置。单击 Policy ,访问 Policy 页面。

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Parallelism		Test Disk Backup
	Concurrent streams to disk drives	
Disk Backup Location		
	An existing directory or diskgroup name where database files will be backed up. If you do not specify a location, database file will be backed up to the flash recovery area location.	15
Disk Backup Type	Backup Set	
	An Oracle proprietary format which has to be restored before use.	
	C Compressed Backup Set An Crack proprietary formal in compressed formal which has to be restored before use.	
	C Image Copy A bit-by-bit copy of database files that can be used as-is to perform recovery.	
Tape Settings		
Tape drives must be mounted before before saving them.	performing a backup. You should verify that the tape settings are valid, by clicking on 'Test Tape Backup'	Test Tape Backup
Tape Drives	1	
	Concernment interaction to have deliver.	

6. 选择 Automatically backup the control file and server parameter file (SPFILE) with every backup and database structural change 。选择 Optimize the whole database backup by skipping unchanged files such as read-only and offline datafiles that have been backed up 。选择 Enable block change tracking for faster incremental backups 。为 Block Change Tracking File 输入一个文件名。然后向下滚动到 Retention Policy 部分。

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Database: orcl.us.oracle.com > Configure Backup Settings	*
Configure Backup Settings	
Derice Backup Set Policy	
Backup Policy	
Automatically backup the control file and server parameter file (SPFILE) with every backup and database structural change	
Autobackup Disk Location	
An existing directory or disigroup name where the control file and server parameter file will be backed up. If you do not specify a location, the files will be backed up to the flash recovery area location.	
C Optimize the whole database backup by skipping unchanged files such as read-only and offline datafiles that have been backed up	
Enable block change tracking for faster incremental backups	
Block Change Tracking File /u01/app/oracle/oradata/orcl/blkchg	
Specify a location and file, otherwise an Oracle managed file will be created in the database area.	
Tablespaces Excluded From Whole Database Backup	
Populate this table with the tablespaces you want to exclude from a whole database backup. Use the Add button to add tablespaces to this table.	
(bbA)	
Select Tablespace Name Tablespace Number Status Contents	
No Items Selected	
IIP Inese tablespaces can be backed up separately using tablespace backup.	
Retention Policy	
C Retain All Backups	ß
You must manually delete any backups	
C Retain backups that are necessary for a recovery to any time within the specified number of days (point-in-time recovery) Days 31	-
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7. 选择 Retain backups that are necessary for a recovery to any time within the specified number of days (point-in-time recovery),并接受默认值(31天)。单击 OK。返回到 Maintenance 页面。

File Edit Werker File States Search Sector Sector Setect Tablespace Sector Sector Setect Tablespace No terms Select Tablespace Sector Setect Tablespace Setect Tablespace Setect Tablespace Setect Tablespace Setect Tablespace No terms Selected G TIP These tablespaces can be backed up separately using tablespace backup. Contents No terms No terms Setect Setect Tablespace Setect Table	Dracle Enterprise Manager (SYS) - Microsoft Internet Ex	plorer					8)
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Specify a location and file, otherwise an Oracle nanaged file will be created in the database area. Tablespaces Excluded From Whole Database Backup Populate this table with the tablespaces you want to exclude from a whole database backup. Use the Add button to add tablespaces to this table. Add Select Tablespace Name Tablespace Number Status Ontents No items Selected Tablespace Name Tablespace Number Status Tablespace Name	Address 🕘 http://144.25.8.226:5500/em/console/database/rec/c	onfig?target=orcl.us.oracle.com&type=oracle_databas	9		*	60	Link
Tablespaces Excluded From Whole Database Backup Populate this table with the tablespaces you want to exclude from a whole database backup. Use the Add button to add tablespaces to this table. Image: Select Tablespace Name Selected No terms Selected Image: Select Tablespace Name Selected Image: Select Tablespace	Specify a location and file,	otherwise an Oracle managed file will be created in the	e database area.				- 1
Populate this table with the tablespaces you want to exclude from a whole database backup. Use the Add button to add tablespaces to this table. Select Tablespace Name Tablespace Number Status Contents No herms Selected Tablespace Number Status Contents @ TIP These tablespaces can be backed up separately using tablespace backup. Retention Policy Retain All Backups You must naroudy dete any backups Precovery to any time within the specified number of days (point-in-time recovery) Days @ Retain at least the specified number of full backups for each datafile Backups Incovery Window Mest Credentials Image: Supply operating system login credentials. Image: Window @ Save as Preferred Credential Image: Statup Selected Credential Image: Statup Selected Credential Copyright @ 1995, 2000, Oracle. At rights reserved. Attabase I Selup Preferences Help Legout Copyright @ 1995, 2000, Oracle. At rights reserved.	Tablespaces Excluded From Whole D	atabase Backup					
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No Items Selected If TIP These tablespaces can be backed up separately using tablespace backup. Retention Policy Image: Control of the second	Select Tablespace Name	Tablespace Number	Status	Contents			
IP These tablespaces can be backed up separately using tablespace backup. Retention Policy Retain All Backups You must nervasily delete any backups Retain backups that are necessary for a recovery to any time within the specified number of days (point-in-time recovery) Days Retain backups that are necessary for a recovery to any time within the specified number of days (point-in-time recovery) Days Retain at least the specified number of full backups for each datafile Backups Host Credentials Imedundancy To save the backup settings, supply operating system login credentials. # Username # Username Oracle # Password Imedundancy Image: Backup Set Policy Copyright @ 1996, 2003, Oracle. At rights reserved. Massee Setup Preferences Help Legout About Benchman Bander in Database Setup Preferences Help Legout Image: Database Setup Preferences Help Legout	No Items Selected						
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Retain backups that are necessary for a recovery to any time within the specified number of days (point-in-time recovery) Days 31 Recovery Window Backups 1 Recovery Window Backups 2 Interview of full backups for each datafile Backups 2 Host Credentials • Username foracle • Password for save the backup settings, supply operating system login credentials. • Username foracle • Password for Save as Preferred Credential Derice Backup Set Policy Cance Operating to 1996, 2003, Oracle. All rights reserved. Copyright © 1996, 2003, Oracle. All rights reserved. Adout Oracle Extension Masser 100 Database Control Database Setup Preferences Help Logout	You must manually delete any backups						
Retain at least the specified number of full backups for each datafile Backups	Retain backups that are necessary for a recover	y to any time within the specified number of da	ys (point-in-tin	ne recovery) Days	31		
Cance Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle. All rights r					Recovery Window		
Host Credentials To save the backup settings, supply operating system login credentials. • Username • Password • Password • Save as Preferred Credential Detabase Setup Preferences Help Lopout Copyright © 1996, 2003, Oracle. All rights reserved.	C Retain at least the specified number of full back	ups for each datafile		Backups	1	1	
Host Credentials To save the backup settings, supply operating system login credentials. Username oracle Password Cance Cance Cance Cance Cance Cance Cance Cance Cance Copyright © 1996, 2003, Oracle. All rights reserved. Copyright © 1996, 2004					Redundancy		
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确定 DBID 和 DB_UNIQUE_NAME 的值

如果您丢失了数据库控制文件或 SPFILE, Enterprise Manager 可以从备份中恢复它们 — 只要您能够为数 据库提供 DB_UNIQUE_NAME 和 DBID 。执行以下步骤,确定 DB_UNIQUE_NAME 的值:



1. 单击 Administration 页面上的 Instance 区域中的 All Initialization Parameters 。

ORACLE Enterprise I Database Control	Manager 10g				Setup	Preferences Help Loasut Database	
Database: orcl.us	s.oracle.com	ance				Logged in As S1	/S
Instance Memory Parameters Undo Management All Initialization Parame	Store Contro Tables Datali Redo Archire Temps	ige Ifies paces 33 54 55 55 55 55 55 55 55 55 55 55 55 55	Security Users Roles Profiles	Enterprise Mana Administrators Notification Schedule Blackouts	ager Admi	nistration	-
Schema Tables Indexes Views Synonyms Sequences Database Links	Packages Package Bodies Procedures Functions Iniggens Java Sources Java Classes	<u>Array Types</u> <u>Object Types</u> Table Types	Cui OL Me	irehouse les AP Dimensions asure Folders	Dimensions Materialized Materialized Refresh Gro	LViews LView Logs ups	-
Configuration Mar Last Collected Configur Database Usage Statist	nagement ation tics	Workload Automatic Workload Repository SQL Tuning Sets	Resource Resource Resource Resource	rce Manager a Monitors a Consumer Group Mapy a Consumer Groups a Plans	oings	Scheduler Jobs Schedules Programs Job Classes Window Groups Global Attributes	-

2. 出现 Current 属性页面。在 Filter 字段中输入 db_unique_name, 然后单击 Go。

ORACLE Enterprise M Database Control	anage	r 10g			Setup	Preferences	Database
Database: orcl.us.oracle.com	1 > In	itialization Parameters				Lo	ogged in As SYS
Initialization Parar	nete	rs					
					Show	SQL) (R	event) (Apply)
Current SPFile							
The parameter values listed	here a	e currently used by the running instance(s). You can change static parameters in	SPFile n	node.			
Filter db_unique_name					(Save to Fil	(Show All)
Filter on a name or partial	name	R			_		
				Previo	us 1-25	5 of 255	Next 25 @
Name	Help	RevisionsValue	Туре	Basic //	Defaul	lt Dynami	c Category
cluster_database	Ð	FALSE	Boolean	1	1		Cluster Database
compatible	D	10.1.0.2.0	String	~		-	Miscellaneous
control_files	D	7u01/app/oracle/oradata/orcl/controlD1.ctl", 7u01/app/oracle/oradata/orcl/controlD2.ctl", 7u01/app/oracle/oradata/orcl/controlD3.ctl"	String	1			File Configuration
db_block_size	ø	8192	Integer	~			Memory
db_create_file_dest	ø		String	1	1	1	File Configuration
db_create_online_log_dest_1	ø		String	1	~	~	File Configuration
db_create_online_log_dest_2	2 D		String	1	1	1	File Configuration
db_create_online_log_dest_3	Ð		String	1	1	1	File Configuration
db_create_online_log_dest_4	۵		String	1	~	1	File Configuration
db_create_online_log_dest_6	ē 🕡		String	~	~	~	File Configuration

3. 出现的页面显示了一行,该行的 Name 列为 db_unique_name , Value 列中给出了数据库的 db_unique_name 的值

abase Control	anager 10g							Setup Prefere	Database
abase: orcl.us.oracle.com) > Initializati	ion Parameters							Logged in As SYS
tialization Paran	neters								
								Show SQL	Revert Apply
rrent SPFile									
parameter values listed l	here are curre	ntly used by th	e running ins	stance(s). You	can change	static paramet	ers in SPFile m	ode.	
er db_unique_name		6							Save to File
ne /	Heln	Revisions	Value	Типе	Rasic	Default	Dynamic	Category	
unique_name	D	100100000	orcl	String	Uusic	~	oynamic	Database Identificati	ion
			12						Save to File
rrent SPEile			-						
								(Show SQL)	Revert Apply)
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记录这个值,以便将来您需要它来进行恢复操作时,可以获得它。 执行以下步骤来确定 **DBID**:

1. 单击 Administration 页面的 Storage 区域中的 Controlfiles 。

ORACLE Enterprise Manager 10g Database Control	9			Setup	Preferences Helo Losout Database	*
Database: orcl.us.oracle.	.com				Logged in As SYS	
Instance	Storage	Security	Enterprise Ma	nager Admi	nistration	
Undo Management All Initialization Parameters	Tabli Spaces Datalles Boliback Segments Redo Log Groups Archive Logs Temporary Tablespace Groups	Boles Profiles	Notification Sched Blackouts	ule		
Schema		Wa	rehouse			
Tables Packag Indexes Packag Views Proceds Synonyms Function Sequences Triggers Database Links Java So Java Cla	es <u>Array Types</u> <u>e Bodies Object Types</u> ures Table Types ns urces urces urces	Cub QL2 Mes	ies NP Dimensions asure Folders	Dimensions Materialized Materialized Refresh Gro	<u>Views</u> View Logs ups	
Configuration Management	Workload	Resour	rce Manager		Scheduler	
Last Collected Configuration Database Usage Statistics	Automatic Workload Repository SQL Tuning Sets	Resource Resource Resource	Monitors Consumer Group M Consumer Groups Plans	appings	Jobs Schedules Programs Job Classes Windows Window Groups Global Attributes	•

2. 出现 Controlfiles 属性页面。选择 Advanced 属性页面。

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Database Cont Database cort u Controlfile General Add	nterprise Manager 10g rol s.oracle.com > Controlfiles S anced Record Section	Sthue Preferences bills Logout Database Logged in As SYS
Controlfile	Mirror Images	
Oracle stron disk failure, file.	gly recommends that your database i it could be restored using the intact c	has a minimum of two control files and that they are located on separate disks. If a control file is damaged due to a opy of the control file from the other disk. You can specify their location in the database's initialization parameter
Valid	File Name	File Directory
VALID	control01.ctl	/u01/app/oracle/oradata/orcl/
VALID	control02.ctl	/u01/app/oracle/oradata/orcl/
VALID	control03.ctl	/u01/app/oracle/oradata/orcl/
General Adv	anced Record Section	
Copyright @ 1996, 2 About Oracle Enterp	003, Oracle. All rights reserved. rise Manager 10g Database Control	Database Setup Preferences Help Logout

3. Database ID 字段包含 DBID 值。

		10
ORACLE Enterprise Manager 10g	Setup Preferences Help Logout	Ĩ
Database Control	Database	
Database: orcl.us.oracle.com > Controlfiles	Logged in As SYS	
Controlfiles		
General Advanced Record Section		
Controlfile Information		
Control files store the status of the database physical structure. It is crucial to database operation.		
Database ID 1043807434		
Controlfile Type CURRENT		
Controlfile Creation Date January 21, 2004 12:45:00 PM		
Controlfile Sequence Number 692		
Last Change Number 653496		
Date Last Modified January 28, 2004 10:06:48 AM		
General Advanced Record Section		
Copyright © 1996, 2003, Oracle. All rights reserved. Boost Grasile Enterprise Manager 10g Database Control		
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记录这个值,以便将来您需要它来进行恢复操作时,可以获得它。

执行完整的数据库备份

您可以通过执行一次完整的数据库备份来备份数据库的全部内容。所有数据文件的完整备份都将被创建。结 果可能作为镜像拷贝或作为备份集存储,但在任意情况下,数据库的所有数据文件以及控制文件、存档重做日志 和服务器参数文件的全部内容都将在备份中反映出来。利用这个文件集,可以完整的恢复数据库。

1. 在 Backup/Recovery 区域中选择 Schedule Backup 。



http://144.25.8.226:5500/em/console/database/instance	/sitemap?event=doLoad8itarget=orcl.us.oracl - Microsol	t Internet Explorer		₫ ×
File Edit View Favorites Tools Help				20
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Address a http://144.25.8.226:5500/em/console/database/instance	e/sitemap?event=doLoad8target=orcl.us.oracle.com8type=oracle,	database&pageNum=4	₹ (?©	Links
ORACLE Enterprise Manager 10g Database Control		Setua Profess	nces Help Logout Database	×
Database: orcl.us.oracle.com			Logged in As SY	s
Home Performance Administration Maintenance				- 1
Utilities	Backup/Recovery	Deployments		
Export to Files Import from Files Import from Database Load Data from File Gather Statistics Reorganize Objects Make Tablespace Locally Managed	Schedule Backup Perform R Dovery Manage Current Backups Configure Backup Settings Configure Recovery Settings Configure Recovery Catalog Settings	Patch Clone Database View Patch Cache Configuration Collection Sta Manage Policy Library Manage Policy Violations	dus	
Related Links				
Advisor Central All Metrics Jobs Monitoring Configuration	Alert History Blackouts Manage Metrics User-Defined Metrics	Alert Log Content ISQL*Plus Metric Collection Errors		
Copyright @ 1996, 2003, Cracle. All rights reserved. About Grade Enterprise Manager 10s Suitabase Control	Database <u>Setup</u> <u>Preferences</u> <u>Help</u> <u>Logout</u>			F
http://144.25.8.226/5500/em/console/database/rec/backup?event	=start⌖=ord.us.oracle.com&type=oracle_database		😏 Internet	_

2. 出现 Schedule Backup:Strategy 页面。从 Backup Strategy 下拉菜单中选择 Customized 。选择 Whole Database, 如果需要, 在 Host Credentials 部分中输入用户名和口令。单击 Next 。

le_database
le_database
le_database ▼ ∂r6o Un Setup Preferences Help Lopout Database
Setup Preferences Help Losout Database
Cancel) (Next)
D Backup Strategies
Oracle-suggested:
 Provides an out-of-the-box backup strategy based on the backup destination. Options may vary based on the database version. Sets up recovery window for backup management Automates backup management Schedules recurring backups
Customized:
 Specify the objects to be backed up Choose a disk or tape backup destination Override the default backup settings Schedule the backup
Cancel Next

出现 Schedule Backup:Options 页面。在 Backup Type 部分中选择 Full Backup 。在 Backup Mode 部分中选
 择 Online Backup 。在 Advanced 部分中选中 Back up all archived logs on disk 。单击 Next 。

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Schedule Backup: Options - Microsoft Internet Explorer					8×
File Edit View Favorites Tools Help					- 862
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iddress 👔 http://144.25.8.226:5500/em/console/database/rec/backup?target=orcl.us.oracle.com@type=oracle_database			¥ (260	Link
ORACLE Enterprise Manager 10g Database Control	Setur	p Prefer	nces Help Lo Databa	se se	Ĵ
Options Settings Schedule Review					
Schedule Backup: Options					
Database orcl.us.oracle.com Backup Strategy Customized Object Type Whole Database	0	Cancel	Step 1 of 4	Next)
Backup Type					
@ Full Backup					
Use as the base of an incremental backup strategy C Incremental Backup (Level 1) Level 1 Incremental Backup includes at the changed blocks since the most recent level 0 backup (cumulative).					
Refresh the latest datafile copy on disk to the current time using the incremental backup					
Backup Mode					
Online Backup The backup can be performed when the database is OPEN.					-
C Offine Backup If the database is OPEN at the time of backup, the database will be shut down and nounted before the backup. The database will be opened after the back	aup.				
Advanced					
R Back up all archived logs on disk					
Delete all archived logs from disk after they are successfully backed up					
Use proxy copy supported by media management software to perform a backup					
http://144.25.8.226:5500/em/console/database/rec/backup?target=ord.us.orade.com8type=orade_database#			🔮 Internet		

4. 出现 Schedule Backup:Settings 页面。适当地选择 Disk 或 Tape 。单击 Next 。



5. 出现 Schedule Backup: Schedule 页面。接受默认的作业名称。选择 Immediately , 立即执行作业, 或输入在 稍后执行的时间。单击 Next 。

|--|

Schedule Backup: Schedule - Microsoft In	iternet Explorer	X
File Edit View Favorites Tools Help		- #D
⇔Back • ⇒ - 🥥 🕃 🐴 🖏 Search	🖬 Favorites 🞯 Media 🦪 🛂 - 🎿 🕅 - 🖃 🎘	
Address at http://144.25.8.226:5500/em/conso	le/database/rec/backup?target=orcl.us.oracle.com8type=oracle_database	▼ (PiGo Links
ORACLE Enterprise Manager 10g Database Control		Setur Preferences Hele Logout Database
·	Options Settings Schedule Review	
Schedule Backup: Schedu	ule	
	Database orcl.us.oracle.com Backup Strategy Customized Object Type Whole Database	Cancel Back Step 3 of 4 Next
Job		
	Job Name BACKUP_ORCL.US.ORACLE.COM Job Descripton Whole Database Backup	
Schedule		
Time Zone GMT -8:00 💌		
Start		
Immediately		_
C Later		
Date Jan 6, 2004		
(example: Jan 6, 20 Time 2 • 00 •	04) @ AM C PM	
Repeat	Repeat Until	
One Time Only	Indefinite	-1
) http://144.25.8.226:5500/em/console/databas	e/rec/backup?target=orcl.us.oracle.com@type=oracle_database#	💣 Internet

6. 出现 Schedule Backup:Review 页面。单击 Submit Job 。

Schedule Backup: Review - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	
부·Back + 수 + 🗿 😭 🖧 🖏 Search 🝙 Favorites 중 Media 🎯 🖏 •	
ddress 🔞 http://144.25.8.226:5500/en/console/database/rec/backup?target=orcl.us	de.com8type=oracle_database 💌 🔗 😡 🛛
ORACLE Enterprise Manager 10g	Setue Preferences Help Logout Database
Options	rtings Schedule Review
Schedule Backup: Review	
Database orcl.us. Backup Strategy Customi Object Type Whole I Backup Type Full Bar Backup Mode Online I	Cancel (Edit RMAN Script) (Back Step 4 of 4 (Submit Job)
Settings	and b
Flash Recovery Area /w01/a	oracle/flash_rec_area/
Return to Strategy Type Selection	Cancel) (Edit RMAN Script) (Back Step 4 of 4 (Submit Job)
Copyright @ 1996, 2003, Oracle. All rights reserved. About Gracie Enterprise Manager 10g Database Control	a Preferences Help Logout

7. 显示 Backup Submit Successful 消息。单击 OK 。

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The job has been successfully submitted. You can view the status of the job by clicking on the View Job button.	
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利用 Oracle 建议的备份策略对数据库进行备份

Oracle 建议的备份策略的基础是创建数据库的一个镜像拷贝,然后利用 RMAN 增量备份继续生成备份。 Oracle Enterprise Manager 调度 RMAN 备份作业。按照以下步骤来设置备份计划:

1. 在 Backup/Recovery 区域中选择 Schedule Backup 。



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2. 出现 Schedule Backup:Strategy 页面。从 Backup Stratgy 下拉菜单中选择 Oracle-suggested 。在 "Select your backup destination" 下选择 Disk 。在 Host Credentials 部分中输入操作系统用户名和口令。单击 Next 。

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or you can develop your own backup strategy with customized options.	D Backup Strategies
Backup Strategy Oracle-suggested	Oracle-suggested:
Select your backup destination © Disk Use dak as the only storage for backups © Tape Use tape as the only storage for backups © Both Disk and Tape Use dak to store the most recent database backup and archivelogs for fast complete recovery. Use tape to store older backups for extended recovery window. Use to Conclusion	 Provides an out-of-the-box backup strategy based on the backup destination. Options may vary based on the database version. Sets up recovery window for backup management Automates backup management Schedules recurring backups
Host Credentials	 Creative the abjects to be backed on
• Username oracle • Password For Save as Preferred Credential	Operating the default backup destination Override the default backup settings Schedule the backup
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3. 出现 Schedule Backup:Setup 页面。请仔细查看信息, 然后单击 Next 。

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Backup Strategy Oracle-suggested Storage Type Disk		
Daily Backup		
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Disk Settings		
Flash Recovery Area /u01/app/oracle/flash_rec_area/		
TIP Disk backups that are necessary for a recovery to any time within the past 1 day are retained.		
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Database Setup Preferences Help Lopput		
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4. 出现 Schedule Backup:Schedule 页面。仔细查看信息,并相应地调整开始日期和时间。单击 Next 。

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Schedule Backup: Schedule - Microsoft Internet Explorer	<u>_8</u> ×
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Specify a time to start the backup. An appropriate time would be when the database is least active during the day.	
Time Zone GMT -8.00	
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5. 出现 Schedule Backup:Review 页面。请仔细查看信息, 然后单击 Submit Job 。

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6. 出现 Status 页面和一条指示作业成功提交的消息。您可以单击 View Job 来访问作业状态页面或单击 OK 来完成操作。

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还原和恢复整个数据库

在这一部分中,您将通过 Enterprise Manager 来恢复数据文件。

1. 在 Backup/Recovery 区域中选择 Perform Recovery 。



2. 出现 Perform Recovery: Type 页面。从 Type 部分中的 Object Type 下拉菜单中选择 Whole Database 。选择 Recover to the current time or a previous point-in-time 作为 Operation Type。在 Host Credentials 部分中输入操作系

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统用户名和口令。单击 Next 。

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3. 显示 Recovery Wizard 页面,指示例程将关闭并重启。单击 Refresh ,继续使用 Recovery Wizard。

Oracle Enterprise Manager (SYS) - Recovery Wizard - Microsoft Internet Explorer		
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4. 单击 Perform Recovery ,恢复数据库。

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The database status is currently unavailable. It is possible that the database is in mount or nomount state. Click 'Startup' open the database. If the database cannot be opened, click 'Perform Recovery' to perform an appropriate recovery operation of the database is in a propriate recovery operation.	to obtain the on.	current status and	
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Copyright @ 1996, 2000, Oracle. All rights reserved. About Oracle Enterprise Manager 10g Database Control			
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5. 在 Host Credentials 区域中输入操作系统用户名和口令。在 Database Credentials 区域中输入 SYS 和 SYS 的口令。单击 Continue 。

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6. 再次出现 Perform Recovery:Type 页面。数据库现在处于加载状态。单击 Next 。

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Object Type Whole Database Operation @ Recover to the current time or a previous point-in-time Type Datatiles will be restored from the latest usable backup as required. C Restore all datafiles Need to specify Time, SCN or log sequence. The backup taken at or prior to that time will be used. C Recover from previously restored datafiles Host Credentials	Restore and/or recover the entire database or selected objects Restore files to a new location Recover tablespaces to a point-in-time based on a timestamp, system change number (SCN), or log sequence number Recover datafile data blocks that are marked as corrupted, or based on datafile block IDs or tablespace block addresses
To perform recovery, supply operating system login credentials. Username oracle Password	 Flashback database or tables to a specific system change number (SCN) or timestamp
Save as Preferred Credential Save as Preferred Credential http://144.25.8.226/5500/em/console/database/rec/recovery?target=orcl.us.orade.com8tvpe=orade_datab	Cancel Next .

7. 出现 Perform Recovery:Point-in-time 页面。选择 Recover to the current time 。单击 Next 。



8. 出现 Perform Recovery: Rename 页面。选择 No. Restore the files to the default location (如果您希望这样)或者选择 Yes. Restore the files to a new, common location,并输入位置。单击 Next。

|--|

🛃 Perform Recovery: Rename - Microsoft Internet Explorer		<u>_8</u> ×
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Database Control		Database
-	Point-Ime Rename Review	
Perform Recovery: Rename		
		Cancel Back Step 2 of 3 Next
Database Object Type	orcl.us.oracle.com Whole Database	0
Operation Type	Restore and Recover	
Do you want to restore the files to a different location? If so, the	controlfile will be updated to use the new location.	
No. Restore the files to the default location.		
C Yes. Restore the files to a new, common location.		
TIP This option will execute an RMAN 'rename' operation.		
Location		
Return to Recovery Type Selection		(Cancel) (Back Step 2 of 3 Next)
	Database Help	
Copyright @ 1996, 2003, Oracle. All rights reserved. About Grade Enterprise Manager 10g Database Costrol		
) bitp://144.25.8.226:5500/em/console/database/rec/recovery?target=ord	.us.orade.comötype=orade_database#	Internet

9. 出现 Perform Recovery: Review 页面。仔细查看信息, 然后单击 Submit 。

Perform Recovery: Review - Microsoft Internet Explorer					12
File Edit View Favorites Tools Help					11
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Point	in-time Rename Review				
Perform Recovery: Review					
Database orcl.us. Object Type Whole I Operation Type Restore Backup The mo Point-in-time Recove	oracle.com Database and Recover st recent backup r to the current time	Cancel) (Edit RMAN Script	Back Step 3 of 3	Supmit	
Click on the 'Edit RMAN Script' button to view or edit the RMAN script bef	ore submitting the operation.				
RMAN Script datab	restore database; recover databa ase open; }	ase; alter			
Return to Recovery Type Selection	Ca	ncel) (Edit RMAN Script)	Back Step 3 of 3 (S	ubmit	
Copyright @ 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager 10g Database Control	Database <u>Help</u>				
					1
http://144.25.8.226:5500/em/console/database/rec/recovery?target=orcl.us.oracle.v	comôtype=oracle_database#		Internet		

10. 收到 "Operation succeeded" 消息。单击 OK 。

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执行闪回表

完成以下任务来执行闪回表操作:

- 启用行转移
- 模拟用户错误
- 执行闪回表

启用行转移

您必须在表上启用行转移,以在表上执行闪回表操作。在这一部分中,您将在 HR.EMPLOYEES 表上启用 行转移。

1. 在 Oracle Database Home 页面上单击 Administration 。



2. 出现 Administration 属性页面。在 Schema 部分中选择 Tables 。

Oracle Enterprise Manager	(SYS) - Database: orclu	s.oracle.com - Microsoft Internet Expl	orer					
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3. 出现 Tables 页面。从 Object Type 下拉菜单中选择 Table 。在 Schema 字段中输入 HR ,在 Object Name 字段中输入 REGIONS 。单击 Go 。

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Search						
Select an object type and optionally enter a sch Object Type Schema Table In	ema name and an object n of earch, double quote the search	ame to filter the data tha Nbject Name egions criteria. The wildcard (%) sy	t is displayed in your resumption of the second statement of the second statement of the second	its set. ile quoted search string.		
Results						
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Select Schema	Table Name	Tablespace	Partitioned	Rows Last Analyzed		
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Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager 10g Database Control	Database <u>Setup</u>	: Preferences Help	I Logout			
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4. REGIONS 表显示在 Results 部分中。单击 Edit 。

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Copyright © 1996, 2003, Cracle, A Shout Grade Enterodise Manager f	ll rights reserved. Ga Cutabase Control	Database <u>Setup</u> E	Yreferences Help Logaut	l	(Recycle Bin)

5. 出现 Edit Table 页面。单击 Options 标签。

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Edit Table: HR.REGIONS	
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Schema HR	
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(Set Default LOB Attrib	utes
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Select Name Data Type Size Scale Not NULL Default Value	
REGION_ID NUMBER V 0	
C REGION_NAME VARCHAR2 Z 25	
Add 5 Table Columns	
ITIP Only table columns with a data type of BLOB, CLOB, NCLOB and TableType have advanced attributes.	
General Constraints Segments Storage Options Statistics	
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6. 从 Enable Row Movement 下拉菜单中选择 Yes 。单击 Apply 。

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7. 收到一条消息,指示表成功修改。选择路径式导航栏中的 Tables 导航项。

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模拟用户错误

在这一部分中,您将通过修改 REGIONS 表中的数据来模拟用户错误。执行以下操作: 1. 通过打开一个终端窗口和执行以下命令来查看 REGIONS 表中的数据:

sqlplus hr/hr col region_name format a30 select * from regions;

🔜 144.25.8.266-Session.STE - TN¥TPlus	
Session Edit View Commands Script Help	
Password: Last login: Fri Jan 9 08:38:23 from 141.144.96.57 [oracle@EDCDR26P1 oracle]\$ sqlplus hr/hr	
SQL*Plus: Release 10.1.0.2.0 - Production on Fri Jan 9 08:39:44 2004	
Copyright (c) 1982, 2003, Oracle. All rights reserved.	
Connected to: Oracle Database 10g Enterprise Edition Release 10.1.0.2.0 - Production With the Partitioning, OLAP and Data Mining options	
SQL> col region_name format a30 SQL> select * from regions;	
REGION_ID REGION_NAME	
1 Europe 2 Americas 3 Asia 4 Middle East and Africa	
sql>	Ţ

2. 通过执行以下 SQL 命令来修改所有行中的 region_name 列中的值,以模拟用户错误: update regions set region_name = 'ORACLE'; commit;

I44.25.8.266-Session.STE - TNVTPlus	
Session Edit View Commands Script Help	
Connected to: Oracle Database 10g Enterprise Edition Release 10.1.0.2.0 - Production With the Partitioning, OLAP and Data Mining options	-
SQL> col region_name format a30 SQL> select * from regions;	
REGION_ID REGION_NAME	
l Europe 2 Americas 3 Asia 4 Middle East and Africa	
SQL> update regions set region_name = 'ORACLE';	
4 rows updated.	
SQL> commit;	
Commit complete.	
SQL> ■	•
	11.

- 3. 再次执行以下命令来查看修改:
- select * from regions;

🔜 144.25.8.266-Session.STE - TNYTPlus	×
Session Edit View Commands Script Help	
1 Europe 2 Americas	▲
3 Hsia 4 Middle East and Africa	
SQL> update regions set region_name = 'ORACLE';	
4 rows updated.	
SQL> commit;	
Commit complete.	
SQL> select * from regions;	
REGION_ID REGION_NAME	
1 ORACLE	
2 ORACLE	
4 ORACLE	
sql>	-

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在 执行闪回表 部分中, 您将把表闪回到您更新表之前的时间点上。

执行闪回表

在这一部分中,您将闪回 HR.REGIONS 表。

1. 验证在表的列表中仍然选中了 REGIONS 。从 Actions 下拉菜单中选择 Flashback Table 。单击 Go 。

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Results					Create	5
			Edit View	Delete Actions Flashback Table		1
Select Schema /	Table Name	Tablespace	Partitioned	Rows Last Analyzed	- 0	11
@ HR	REGIONS	EXAMPLE	NO	4 2004-01-08 09:40:50	2	
Copyright © 1996, 2003, Oracle Bhout Oracle Enterprise Manag	n. All rights reserved. er 10g Database Control	Database <u>Setup</u> E	ireferences Help Logout		(Recycle Bin)	
http://144.25.8.226:5500/en	n/console/database/databaseObject:	sSearch?target=orcl.us.orade.c	omôtype=oracle_database&otype=	schema#	Internet	_

2. 出现 Perform Recovery:Point-in-time 页面。选择 Flashback to a timestamp , 然后输入几分钟以前的一个日期 和时间。单击 Next 。

3. 出现 Perform Recovery: Flashback Tables 页面。仔细查看页面上的信息,然后单击 Next 。

http://144.25.8.226:5500/em/console/database/rec/flashback?source=tableNav&value=2&pageSeq=1&ev - Microsoft Intern	et Explorer		@_×
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ORACLE Enterprise Manager 10g Database Control	Setup	Preferences Help Datab	losout in initial init
Point-In-time Flashback Versions Query Filter Choose SCN Flashback Tables Dependency Options	Dependencies		
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Object Type Tables Operation Type Flashback Existing Tables	Cancel	Back Step 4 of	7 Next
Specify the tables you would like to flashback.			
Flashback Time Jan 9, 2004 08:15 AM			
Tables To Flashback			
Return to Recovery Type Selection	(Cancel) (B	ack Step 4 of 7	Next
Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager 10g Database Control			
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4. 出现 Perform Recovery: Review 页面。仔细查看信息, 然后单击 Submit 。

ttp://144.25.8.226:5500/em/console/database/rec/flashback?source=tableNav&value=5&pageSeq=4&fl - Microsoft Internet Explorer		. e ×
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ORACLE Enterprise Manager 10g Database Control	Setus Preferences Help Lossut Database	×
Previous Dependency Options Dependencies Review		
Perform Recovery: Review		
Cancel Show Row Changes Show SQL Object Type Tables Operation Type Flashback Existing Tables The following tables will be flashed back. All these tables will be locked while the flashback operation is in progress. SCN 689097 Timestamp Jan 9, 2004 08:15 AM Tables HR.REGIONS Dependent Tables) (Back Step 7 of 7 (Subg	2
Return to Recovery Type Selection (Cancel) (Show Row Changes) (Show SOL)	Back Step 7 of 7 (Submit	5
Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager 10g Database Control		
http://144.25.8.226/5500/em/console/database/rec/flashback?source=tableNav8value=58page5eq=48flashbackTablesStr=HR.REGIONS8type	Internet	

5. 接收到一条消息,确认表已被闪回。单击 OK 。

Recovery Wizard - Microsoft Internet Explorer				ð
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🕬 👔 http://144.25.8.226:5500/em/console/database/rec/flashback?source=&value=&pageSeq=7&type=oracle_database⌖=ord.us.oracle.com&ev	ent=submit	۲	200	Lin
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atabase: orcl.us.oracle.com				
Confirmation				
he selected tables, HR.REGIONS, have been flashed back.				
Database Setup Preferences Help Lopout asyright @ 1996, 2003, Oracle. All rights reserved. acust Oracle Entroprise Manager 10g Database Control			- AS	

6. 切换回 SQL*Plus 会话,执行以下命令来验证闪回表操作: select * from regions;

🔜 144.25.8.266-Session.STE - TN¥TPlus	
Session Edit View Commands Script Help	
SQL> commit;	-
Commit complete.	
SQL> select * from regions;	
REGION_ID REGION_NAME	
1 ORACLE 2 ORACLE 3 ORACLE 4 ORACLE	
SQL> select * from regions;	
REGION_ID REGION_NAME	
1 Europe	
2 Americas 3 Asia 4 Middle East and Africa	
sql>	•

执行闪回丢弃

在这一部分中,您将使用闪回丢弃特性来取回被丢弃的表。为了完成本练习,您将创建一个新的表、丢弃该 表,然后用闪回丢弃来恢复它。

按照下列步骤来创建一个新的表,然后丢弃它:

1. 在 Schema Name 字段中输入 HR,并在 Object Name 字段中输入 REGIONS 或 REGIONS 的一部分,然 后单击 Go 。

If the last two Provides Tool Help Understand Address Image: Tool Provides Tool Help Understand Organization Description Sector Description Descrin Descripti	Oracle Enterprise Manager (SYS) - Tables - Microsoft	Internet Explorer	2				-1812
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2. 从 Action 下拉菜单中选择 Create Like 。单击 Go 。

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3. 出现 Create Table 页面。在 Name 字段中输入 REG_HIST 。取消 REGION_ID 列选定的 Not Null 。单击 Constraints 。

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4. 出现 Constraints 页面。选中每一个约束条件, 然后单击 delete 来删除表上的约束条件。本练习不需要这些 约束条件。

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5. 单击 OK , 创建 REG_HIST 表。

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6. 收到一条消息,指示表已创建。在 Object Name 字段中输入 REG_HIST,然后单击 Go。

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7. 显示 Tables 页面,并在 Results 部分中显示 REG_HIST 表。单击 Delete 来删除 REG_HIST 表。

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8. 单击 Yes,确认删除表。



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9. 显示一条消息,指示表已删除。单击 Go,尝试取回表。

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10. 在结果部分中显示 No object found 。

要恢复您刚刚删除的表,您将需要执行一次闪回丢弃。执行以下操作:

1. 单击 Recycle Bin 。

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2. 在 Schema Name 字段中输入 HR , 然后单击 Go 。

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3. 验证选中了 REG_HIST , 然后单击 Flashback Drop 。

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4. 出现 Perform Recovery: Rename 页面。单击 Next 。

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5. 出现 Perform Recovery: Review 页面。仔细查看信息, 然后单击 Submit。

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\$ress 🔊 http://144.25.8.226:5500/em/console/database/rec/Nashback?source=&value=&pageSeq=3&type=oracle_database⌖=orcl.us.oracle.com&event	=submit	*	60	Link
DRACLE Enterprise Manager 10g	Setup Prefere	nces <u>Helo</u> Datab	ase	Ì
atabase: orcl.us.oracle.com				
Confirmation				
he selected tables, HR.REG_HIST, have been flashed back from the recycle bin.				
Database Setup Preferences Help Logout bott Grade Extensive Manager 10g butebas Control			æ	

7. 回收站中不再有该表。单击路径式导航栏中的 Tables 导般项。

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//http://	144.25.8	1.226:55	00/em/console/data	base/rec,	/flashback?ev	ent=red	splayRec	vcleBin&t	arget=orc - Microsoft Internet Explorer			_@×	
File Edit	t View	Favorit	es Tools Help									- 2 6	l
🕁 Back 🔹	$\cdot \rightarrow \cdot$	3	쇼 QSearch 庙	Favorites	@Heda 3) 집~ /	• 🖬 🛍	🖻 🕅					1
Address	📄 hittp://	144.25.8	226:5500/em/console/d	latabase/re	c/flashback?eve	nt=redispl	ayRecycleB	inôtarget=	ord.us.orade.com&type=orade_database		*	@Go Links	J
Databa	CLE E ase Cont	interpris trol	se Manager 10 <i>g</i> 🗌							Setur	Preferences Help Datal	Logout A]
				Desure	0.								
Databas	se: orci u	IS. OFACIE	Com > Taples >	кесусіе	Bin								
Recy	cie B	nin	0										
When y where, i	ou drop in case t	a table, he table	Oracle does not im was dropped in erro	mediately or, it can b	reclaim the s recovered (pace ass Flashbac	sociated v :k Drop) a	rith the ta t a later t	ble. Oracle places the table and any a ime.	ssociated	l objects in Recycle	Bin,	
Sea	arch												
Sch HR	hema Na	ime		Table				6					
Res	sults												
							P	urge) Fla	ishback Drop				
Sel	ect All	Select N	None Expand All	Collapse A	<u>All</u>	Dron	Create						
Sel	lect Nan	ne	Schema	Туре	Tablespace	Time	Time	Size	Operation				
r		lecycle lin							(View Content)				
Copyright About On	t © 1996, 3 acte Enterp	2003, Ora prise Man	cle. All rights reserved. aser 10s Database Contr	ш	Databa	se <u>Se</u>	tup I Pre	ferences	I Help I Lopout				1
http://l	144.25.8.2	226:5500)	em/console/database/d	at abaseOb(ectsSearch?eve	nt=redispl	ay6target=	ord.us.ora	cle.com@type=oracle_databa		Internet		T

8. REG_HIST 表现在被包含在表的列表中。

🛃 Oracle Enterprise Manager (SYS) - Tables - Microsoft Interne	t Explorer			_ 8	x
File Edit View Favorites Tools Help					1
⇔Back • → - 🗿 🚰 🐴 🕲 Search 📾 Favorites @Med	6 🕑 🗗 - 🎒 🖬 - 🛛	e A			
Address a http://144.25.8.226:5500/em/console/database/databaseO	bjectsSearch?event=redisplay@	target=ord.us.orade.com&type=orade_	database&otype=schema&objectType=	TÆ≝ (∂Go Lini	ks
ORACLE Enterprise Manager 10g Database Control			Setup Preferences	Heb Looxat Database	*
Database: orcl.us.oracle.com > Tables			Lo	gged in As SYS	
Seereb				Recycle Bin	
Search Select an object type and optionally enter a schema nam Object Type Schema Table To run an exact match search or to run a case sensitive search, dou	e and an object name to f Object Na & REG_HIS ble quote the search criteria. T	ter the data that is displayed in yo me T Go te wildcard (%) symbol can still be used i	ur results set. n a double quoted search string.		
Results		Edit View Dalate	Constal Sec	Create	
Select Scheme / Table Name	Tablemace	Partitioned	Actions Create Like	<u> </u>	
HR REG HIST	EXAMPLE	NO	Nuws Last Analyzeu		
Copyright @ 1996, 2003, Oracle. All rights reserved. About Granie Enterprise Manager 10g Database Control	atabase <u>Setup</u> <u>Prefe</u>	rences i Help i Logout		Recycle Bin	4
<u>ا</u>				ternet	
8				itemet	×

管理备份

管理备份包括两个任务:管理存在于磁盘或磁带上的备份自身,和管理保存在 RMAN 信息库中的备份记录。 在这一部分中,您将执行备份维护和更新 RMAN 信息库。在这一部分中,您将执行以下任务:

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- 使用 Manage Current Backups 页面
- 交叉查对备份
- 删除过期备份
- 删除废弃备份
- 标记备份为 UNAVAILABLE
- 编制备份的目录

使用 Manage Current Backups 页面

您可以使用 Manage Current Backups 页面来查看在 RMAN 信息库中记录的备份。从这个页面中,您可以 执行在这整个部

分中说明的备份维护操作。

1. 单击 Maintenance 属性页面的 Backup/Recovery 区域中的 Manage Current Backups 。

ORACLE Enterprise Manager 10g	1	Setus Preferences Hels Losout Database	
Database: orcl.us.oracle.com		Logged in As SYS	
Home Performance Administration Maintenance			
Utilities	Backup/Recovery	Deployments	
Export to Files Import from Files Load Data from File Gather Statistics Reorganize Objects Make Tablespace Locally Managed	Schedule Backup Perform Recovery Manage Current Backups Configure Electup Settings Configure Recovery Settings Configure Recovery Catalog Settings	Patch Clone Database Clone Oracle Home Yiew Patch Cache Configuration Collection Status Manage Policy Library Manage Policy Violations	
Home Performance Administration Maintenance			
Related Links			
Advisor Central All Metrics Jobs Monitoring Configuration	Alert History Blackouts Manage Metrics User-Defined Metrics	Alert Log Content (SQL*Plus Metric Collection Errors	
Copyright @ 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager 10g Database Control	Database Setup Preferences Help Lopout		
			Ŧ

2. 显示 Manage Current Backups 页面。 Backup Sets 属性页面显示在 RMAN 信息库中记录的备份集。单击 Contents 列中的链接来查看关于一个备份集的内容的详细信息。

ORACLE Enterprise Manager 10g Database Control				Setup	Preferences	Helo Logost Database	Ì
Patabase and S. Manage Connet Bashara					1.00		
Database: orci > Manage Current Backups					Log	gged in As ST2	2
Manage Current Backups							
This hashes data use astricted from the database control of	Catalog	Additional Files Crossc	heck All De	lete All Obsole	ete) (Dele	te All Expired	2
This backup data was retrieved from the database control to Backup Sate Image Conjes	ile.						
Backup Sets mingar Strains							- 1
Search							
Status Available							
Contents 😿 Datafile 🗹 Archived Redo Log 🕅	SPFILE 🗹 Control File						
Completion Time Within a month	GO						
Results							
			Crosschee	k) Change t	o Unavailab	le) Delete)	
Select All Select None							
Select Key Tag	Completion Time	Contents	Device Type	Status	Obsolete	Keep Pieces	
BACKUP_ORCL_000003_021304102616	Feb 13, 2004 10:29:41 AM	ARCHIVED LOG	DISK	AVAILABLE	NO	NO <u>1</u>	
BACKUP_ORCL_000003_021304102616	Feb 13, 2004 10:28:54 AM	SPFILE, CONTROLFILE	DISK	AVAILABLE	NO	NO 1	
BACKUP_ORCL_000003_021304102616	Feb 13, 2004 10:28:41 AM	DATAFILE	DISK	AVAILABLE	NO	NO 1	
		13					
Host Credentials							
To perform backup management operations, supply op	erating system login credentia	ls.					
• Osemame oracle							
* Password							
Save as	Preferred Credential						
Backup Sets Image Copies							



3. 显示 Contents 属性页面。单击 Manage Current Backups ,返回 Manage Current Backups 属性页面。

Database Con	Enterprise Manager 10g trol				Setua Preferences Hela Loaout Database
Database: ord	Manage Current Backups > Contents in Backup Sat:	1			Longed in Art SVS
Contents	in Rackup Wat: 1				Logged in As 313
Contents	in backup Set. 1				
	Datafile	Size	File Creation	File Checkpoint	File Checkpoint/Last Modified
File Type	Number File Name	(bytes) Tablespace	SUN	SUN	Lime
DATAFILE	7 /u01/app/oracle/oradata/orcl/flowers_indx.dbf	66536 F SINDX	521269	530098	Feb 13, 2004 10:26:32 AM
DATAFILE	4 /u01/app/oracle/oradata/orcl/users01.dbf	1843200 USERS	9473	530098	Feb 13, 2004 10:26:32 AM
DATAFILE	2 /u01/app/oracle/oradata/orcl/undotbs01.dbf	28065792 UNDOTBS1	356909	530098	Feb 13, 2004 10:26:32 AM
DATAFILE	6 /u01/app/oracle/oradata/orcl/flowers_data.dbf	237568 FSDATA	521221	530098	Feb 13, 2004 10:26:32 AM
DATAFILE	3 /u01/app/oracle/oradata/orcl/sysaux01.dbf	138485760 SYSAUX	6253	530096	Feb 13, 2004 10:26:32 AM
DATAFILE	5 /u01/app/oracle/oradata/orcl/example01.dbf	68100096 EXAMPLE	380003	530098	Feb 13, 2004 10:26:32 AM
DATAFILE	1 /u01/app/oracle/oradata/orcl/system01.dbf	343924736 SYSTEM	6	530098	Feb 13, 2004 10:26:32 AM
Copyright @ 1996, About Oracle Enter	Database (2004, Oracle. All rights reserved. prime Manager 10g Database Control	Setup <u>Preferences</u> b	telp Logout		œ

4. 单击 Image Copies , 查看 Image Copies 页面。

ORACLE Enterprise Manager 10g Database Control				Setup	Preferences	Database	st.
Database: orcl > Manage Current Backups					Lo	ogged in As	SYS
Manage Current Backups							
This backup data was retrieved from the database contr	Catalog A	Additional Files Crossc	heck All) De	lete All Obsol	ete) De	lete All Exp	ired
Backup Sets Image Copies							
Search							_
Status Available							
Contents R Datafile Archived Redo Log	SPFILE M Control File						
Completion Time Within a month 💌	60						
Completion Time Within a month	(0)						
Completion Time Within a month Results	6		Ground	1 Your		ble V Delet	
Completion Time Within a month Results	<u>ه</u>		Crossche	ck) Change t	o Unavaila	ble) Delet	2
Completion Time Within a month Results Select All Select None Select Kend Tan		Contents	Crossche	ck) Change t	o Unavaila	ble Delet	2)
Completion Time Within a month Results Select All Select None Select Key Tag	Completion Time 7	Contents ARCHIVED LOG	Crosscher Device Type	ck) Change t Status	o Unavaila Obsolete	Keep Pic	e) eces
Completion Time Within a month Results Select All Select None Select Key Tag C 3BACKUP_ORCL_000003_0213041026 C 2BACKUP_ORCL_000003_0213041026	Completion Time 16 Feb 13, 2004 10:29:41 AM 15 Feb 13, 2004 10:29:54 AM	Contents ARCHIVED LOG SPEILE CONTROLELE	Crosscher Device Type DISK DISK	Change t Status AVAILABLE	o Unavaila Obsolete NO	NO	eces 1
Completion Time Within a month Results Select All Select None Select Key Tag Select Key Tag Select Key DRCL_000003_0213041026 Select Key DRCL_00003_0213041026 Select Key DRCL_00003_0213041026 Select Key DRCL_00003_0213041026 Select Key DRCL_00003_0213041026 Select Key DRCL_00003_0213041026 Select Key DRCL_00003_0213041026 Select Key DRCL_00003_0213041026 Select Key DRCL_00003_0213041026 Select Key DRCL_00003_0213041026 Select Key DRCL_00003_0213041026 Select Key DRCL_000003_0213041026 Select Key DRCL_000003_0213041026 S	Completion Time 16 Feb 13, 2004 10:29:41 AM 16 Feb 13, 2004 10:28:54 AM 16 Feb 13, 2004 10:28:54 AM	Contents ARCHIVED.LOG SPEILE.CONTROLFILE DATAFILE	Crosscher Device Type DISK DISK DISK	Change t Status AVAILABLE AVAILABLE AVAILABLE	Obsolete NO NO	NO NO NO	eces
Completion Time Within a month Results Select All Select None Select Key Tag Select Key Tag Select Key Tag Select Key Tag I 3 BACKUP_ORCL_000003_0213041026 3 BACKUP_ORCL_000003_0213041026 I 3 BACKUP_ORCL_000003_0210 I 3 BACKUP_ORCL_0000003_021 I 3 BACKUP_ORCL_000000000000	Completion Time 16 Feb 13, 2004 10:29:41 AM 16 Feb 13, 2004 10:28:54 AM 16 Feb 13, 2004 10:28:41 AM	Contents ARCHIVED LOG SPFILE, CONTROLFILE DATAFILE	Crosscher Device Type DISK DISK DISK	ck) Change t Status AVAILABLE AVAILABLE AVAILABLE	Obsolete NO NO NO	NO NO NO NO	•ces
Completion Time Within a month Results Select All Select None Select Key Tag Select Mone Select Key Tag Select All Select None Select Key Tag Select All Select None Select All	Completion Time Feb 13, 2004 10:29:41 AM Feb 13, 2004 10:28:54 AM Feb 13, 2004 10:28:41 AM	Contents ARCHIVED LOG SPFILE, CONTROLFILE DATAFILE	Crosscher Device Type DISK DISK DISK	Ck Change t Status AVAILABLE AVAILABLE AVAILABLE	Obsolete NO NO NO NO	NO NO NO NO	2) 1 1 1
Completion Time Within a month Results Select All Select None Select Key Tag Select Key	Completion Time Completion Time 16 Feb 13, 2004 10:29:41 AM 16 Feb 13, 2004 10:28:54 AM 16 Feb 13, 2004 10:28:41 AM operating system login credentials	Contents ARCHIVED LOG SPFILE, CONTROLFILE DATAFILE 8.	Crosscher Device Type DISK DISK DISK	Change t Status AVAILABLE AVAILABLE AVAILABLE	0 Unavaila 0 bisolete NO NO NO	NO NO NO NO	eces 1 1
Completion Time Within a month Results Select All Select None Select Key Tag 3 BACKUP_ORCL_000003_0213041026 2 BACKUP_ORCL_000003_0213041026 Host Credentials To perform backup management operations_supply Usemame oracle	Completion Time Completion Time 16 Feb 13, 2004 10:29:41 AM 16 Feb 13, 2004 10:28:54 AM 16 Feb 13, 2004 10:28:41 AM operating system login credentials	Contents ARCHIVED LOG SPFILE, CONTROLFILE DATAFILE 8.	Crosscher Device Type DISK DISK DISK	Change t Status AVAILABLE AVAILABLE AVAILABLE	0 Unavaila Obsolete NO NO NO	NO NO	2 Ces
Completion Time Within a month Results Select All Select None Select Key Tag 3 BACKUP_ORCL_000003_0213041026 2 BACKUP_ORCL_000003_0213041026 Host Credentials To perform backup management operations, supply Usemame oracle Password	Completion Time Completion Time 16 Feb 13, 2004 10:29:41 AM 16 Feb 13, 2004 10:28:54 AM 16 Feb 13, 2004 10:28:41 AM operating system login credential:	Contents ARCHIVED LOG SPFILE, CONTROLFILE DATAFILE 8.	Crosscher Device Type DISK DISK DISK	Change t Status AVAILABLE AVAILABLE AVAILABLE	0 Unavaila Obsolete NO NO NO	NO NO NO	eces 1 1 1
Completion Time Within a month Results Select All Select None Select Key Tag 3 BACKUP_ORCL_000003_0213041026 2 BACKUP_ORCL_000003_0213041026 Host Credentials To perform backup management operations, supply Usemame [oracle] Password Save	Completion Time Completion Time 16 Feb 13, 2004 10:29:41 AM 16 Feb 13, 2004 10:28:54 AM 16 Feb 13, 2004 10:28:41 AM operating system login credentials * as Preferred Credential	Contents ARCHIVED LOG SPFILE, CONTROLFILE DATAFILE 8.	Crosscher Device Type DISK DISK DISK	Change t Status AVAILABLE AVAILABLE AVAILABLE	NO NO NO	ble Delet	e) 1 1 1

5. 显示 Image Copies 页面,该页面显示记录在 RMAN 信息库中的镜像拷贝。

Datal	ACLE	Enterprise Manager 10g		Setup Pre	ferences Help Lo	aout e	ŕ
							1
Datab	ase: or	> Manage Current Backups			Logged in A	s SYS	1
Mar	nage	Current Backups					
		Catalog Additional Files)	rosscheck All	Delete All Obsolete	Delete All Ex	pired	
Back	ackup o	ata was retrieved from the database control hie.					
DALK	up cers	Image Copies					
S	earch						
		Status Available 👱					_
	Co	ntents 🗵 Datafile 🗹 Archived Redo Log 🗹 Control File					
Co	mpletio	n Time Within a month 💌 😡					
R	esults	là -				~	=
-		v		Crosscheck) C	hange to Unavail	able	2
S	elect Al	Select None	law as the	© P	revious 1-25 of 2	6 🔳	Ν
S	elect K	yName	File Type	Tag Completion Tim	e 🛛 Status	Obsole	61
		26/u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_02_13/o1_mf_1_48_02t5vg2g_ar	LOG	n/a Feb 13, 2004 10:29:03 AM	AVAILABLE	NO	
		///u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_02_13/o1_mf_1_47_02t28br6_ ar	c ARCHIVED LOG	n/a Feb 13, 2004 9:22 AM	39 AVAILABLE	YES	
		24/u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_02_13/o1_mf_1_46_02sxp5sc_a	ARCHIVED LOG	n/a Feb 13, 2004 8:05 AM	3:46 AVAILABLE	YES	
		(3)/u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_02_13/o1_mf_1_45_02st639f_ar	c ARCHIVED LOG	n/a Feb 13, 2004 7:05 AM	56 AVAILABLE	YES	
		22/u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_02_13/o1_mf_1_44_02sp387o_a	ARCHIVED	n/a Feb 13, 2004 6:00 AM	0:08 AVAILABLE	YES	
		1/u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_02_13/o1_mf_1_43_02slltrp_arc	ARCHIVED	n/a Feb 13, 2004 5:00):12 AVAILABLE	YES	-
4							•

交叉查对备份

当您交叉查对一个备份时,RMAN 验证记录在信息库中的信息与实际备份状态是否保持一致。如果不一致,则将更新信息库来反映正确的状态。您可以按以下方式来交叉查对所有的备份文件:

1. 单击 Maintenance 属性页面的 Backup/Recovery 区域中的 Manage Current Backups 。

ome Performance Administration Maintenance		
Utilities	Backup/Recovery	Deployments
Export to Files Import from Files Import from Database	Schedule Backup Perform Recovery Manage Current Backups	Patch Clone Database Clone Oracle Home
Conc Casha Teom Frie Gather Statistics Reorganize Objects Make Tablespace Locally Managed	Configure Recovery Settings Configure Recovery Catalog Settings	Configuration Collection Status Manage Policy Library Manage Policy Violations
Related Links		
Advisor Central All Metrics Jobs Monitoring Configuration	Alert History Blackouts Manage Metrics User-Defined Metrics	Alert Log Content (SQL*Plus Metric Collection Errors
vyright © 1996, 2003, Oracle. All rights reserved. out Drasile Enterprise Manager 10g Database Control	Database Setup Preferences Help Lopout	

2. 显示 Manage Current Backups 页面。单击页面顶部的 Crosscheck All 来交叉查对 RMAN 信息库中的所有文件。

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ORACLE Enterprise Manager 10g Database Control	Setup Preferences Help Losout
Database: orcl.us.oracle.com > Manage Current Backups	Logged in As SYS
Manage Current Backups	
Catalog Additional Files) (Crosscheck All) (Delete All	Obsolete) (Delete All Expired)
This backup data was retrieved from the database control file.	
Backup Sets Image Copies	
Search	
Status Available 🔹	
Contents IZ Datafile IZ Archived Redo Lon IZ SPEILE IZ Control File	
Completion Time Mithing works w	
Completion rime within a month a	
Results	
Crosscheck) Ch	ange to Unavailable) Delete)
Select All Select None	
Select Key Tag Completion Time V Contents Device Type Status	s Obsolete Keep Pieces
3 BACKUP_ORCL.US.ORA_012804115339 Jan 28, 2004 11:55:19 AM SPFILE, CONTROLFILE DISK AVAIL	ABLE NO NO 1
2 BACKUP_ORCL.US.ORA_012804115339 Jan 28, 2004 11:55:16 AM DATAFILE DISK AVAIL	ABLE NO NO 1
Host Credentials	
To perform backup management operations, supply operating system login credentials.	
• Osemarne joracie	
* Password	
I Save as Preferred Credential	
Backup Sets Image Copies	
	/ 🖃

3. 显示 Crosscheck All:Specify Job Parameters 页面。您可以接受 Job Name、Job Description、Start time 和 Repeat 规范的默认值,或输入自己的值。单击 Submit Job,提交交叉查对作业。

ORACLE Enterprise Manager 10g		Setus Preferences Hels Loaout Database
Database: orcl.us.oracle.com > Manage Current Backups	> Crosscheck All: Specify Job Parameters	Logged in As SYS
Crosscheck All: Specify Job Parameter	ers	
An Enterprise Manager job will be created to perform the ope	Cancel ration you chose on all backup sets and image copies. Please specify the	Show RMAN Script Submit Job
Job Name Bkp_Mgmt_orcl.us.oracle.com_0000		~
. Job Description Backup Management Job for 'Crosscher:	k All'	
- oo boonpron particip management doo in crosseneo	1.3.80	
Schedule		
Time Zone GMT -8:00 💌		
Start		
Immediately		
C Later		
Data Jan 28, 2004		
(example: Jan 28, 2004)		
Time 12 • 35 • C AM @ PM		
Repeat	Repeat Until	
One Time Only		
C Interval	C Custom	
Frequency 1 Minutes 💌	Date Jan 28, 2004	
C Monthly	(example: Jan 28, 2004)	
C Yearly	Time 12 X 45 X C AM © PM	

4. 在 Manage Current Backups 页面上显示了一条 Job Submission Succeeded 消息。您可以单击 View Job 来查看作业的状态。

RACLE tabase C	Enterprise Manager 10g				Setup	Preferences	Help Logout Database
abase: or	cl.us.oracle.com > Manage Current Backups					Lo	gged in As SY
ol G	b Submission Succeeded						
The	job 'Bkp Mgmt orcl.us.oracle.com 000008' w	as successfully submitted for	the operation 'Crosscheck	All', It will be i	executed at th	e schedule	d time.
Vie	w.lob .	,					
anage	Current Backups						
unugo	ourient buonapo	Catalog	Additional Files Crosso	heck All) (De	lete All Obsol	ete) (Deli	ete All Expired
s backup	data was retrieved from the database control fi	le.					
ackup Se	ets Image Copies						
Search							
	Status Available						
~	esteries IR Details IR Archived Dade Lee IR S	DEILE R Control File					
	ontents IN Datable IN Archived Redo Log IN S	PriLE M Control File					
Completio	on Time Within a month 💌	60					
Results							
				Crossche	ck) Change I	n Unavailat	
Select Al	Select None			Carottene	en enange		
Select #	(ey Tag	Completion Time V	Contents	Device Type	Status	Obsolete	Keep Piece
	3 BACKUP_ORCL.US.ORA_012804115339	Jan 28, 2004 11:55:19 AM	SPFILE, CONTROLFILE	DISK	AVAILABLE	NO	NO
	2 BACKUP_ORCL.US.ORA_012804115339	Jan 28, 2004 11:55:16 AM	DATAFILE	DISK	AVAILABLE	NO	NO
Host Ci	redentials						
To perform	n backup management operations, supply ope	rating system login credential	s.				

5. 在 Summary 区域中,您可以查看作业的状态。

-					
ORACLE Enterprise Manag Database Control	er 10g			Setu	2 Preferences Help Logout Database
Joh Run: BKP, MGMT, ORCL, US	ORACLE COM 0	000008 at Jan 28, 2004 12:40:10 PM (3MT.08:00 > F	vecution: orcl us oracle com	
Execution: orcl.us.ora	acle.com	0000000 01 0011 K02, K0007, 14, 79, 10 1 111	2111.302.002		
			F	Page Refreshed Jan 28, 2004 12:42:3	39 PM Delete Run Edit
Summary					
Status Succeeder Scheduled Jan 28, 200 Started Jan 28, 200 Start Delayed O seconds Ended Jan 28, 200 Elapsed Time 11 seconds	d 14 12:40:10 PM G 14 12:40:10 PM G 14 12:40:21 PM G s	SMT-08:00 SMT-08:00 B SMT-08:00 Database Datab	Type Owner Description lost Username Connect String lase Username Database Role Oracle Home Oracle SID covery Catalog RMAN Script	Backup Management SYS Backup Management Job for 'Cre oracle (DESCRIPTION=(ADDRESS_LIST= SYS [SYSDBA] [/w01/app/oracle/product/10.1.0] [orcl] NO CROSSCHECK BACKUPSET; CRO	v(ADDR v(ADDR
Logs					
Search	60				Advanced Search
Name Targets	Status St	larted	Ended	E	lapsed Time (seconds)
RMAN orcl.us.oracle.com	Succeeded Jan	in 28, 2004 12:40:17 PM GMT-08:00	Jan 28, 20	04 12:40:21 PM GMT-08:00 4	
Copyright © 1996, 2003, Gracle. All right About Gracie Enterprise Manager 10g Dat	s reserved. Jab ale Control	<u>Database</u> <u>Setup</u> <u>Prefere</u>	nces I Help I	Logout	Delete Run) Edit

删除过期备份

您可以通过执行以下步骤来删除 RMAN 信息库中标记为 EXPIRED 的所有备份:

1. 单击 Maintenance 属性页面的 Backup/Recovery 区域中的 Manage Current Backups 。

ORACLE Enterprise Manager 10g Database Control		Setus Preferences Hela Losout Database
		Logged in As SYS
Database: orcl.us.oracle.com		
Home Performance Administration Maintenance		
Utilities	Backup/Recovery	Deployments
Export to Files Import from Database Import from Database	Schedule Backup Perform Recovery Manage Current Backups Configure RPsikup Settinge	Patch Clone Database Clone Oracle Home View Patch Cache
Gather Statistics Reorganize Objects Make Tablespace Locally Managed	Configure Recovery Settings Configure Recovery Catalog Settings	Cenfiguration Collection Status Manage Policy Library Manage Policy Violations
Home Performance Administration Maintenance		
Related Links		
Advisor Central All Metrics Jobs Monitoring Configuration	Alert History Blackouts Manage Metrics User-Defined Metrics	Alert Log Content ISQL"Plus Metric Collection Errors
Copyright @ 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager 10g Database Control	Database Setup Preferences Help Lopout	
		<u>v</u>

2. 显示 Manage Current Backups 页面。单击页面顶部的 Delete All Expired ,从 RMAN 信息库中删除标记为 EXPIRED 的那些备份。

							_
ORACLE Enterprise Manager 10g				Setup 8	Preferences H	elo Logout	
							J
Database: orcl.us.oracle.com > Manage Current Backups					Logg	ed in As SYS	\$
Manage Current Backups							
This healther data use retrieved form the database control file	Catalog	Additional Files) Crossc	heck All Del	ete All Obsole	te) Delete	All Expired)
Backup Sets Image Copies	<i>a</i> ,					15	
Occupit							1
search							
Status Available 💌							
Contents 😿 Datafile 🗹 Archived Redo Log 🕅 SF	PFILE 🗹 Control File						
Completion Time Within a month 💌	60						
	_						
Results							
			Crossched	k) Change to) Unavailable	Delete)	
Select All Select None							.
Select Key Tag	Completion Time	Contents	Device Type	Status	Obsolete K	eep Pieces	
3 BACKUP_ORCL.US.ORA_012804115339	Jan 28, 2004 11:55:19 AM	SPFILE, CONTROLFILE	DISK	AVAILABLE	NO N	0 1	
2 BACKUP_ORCL.US.ORA_012804115339	Jan 28, 2004 11:55:16 AM	DATAFILE	DISK	AVAILABLE	NO N	0 1	
Host Credentials							
To perform backup management operations, supply oper	ating system login credential	e					
Username oracle	aning system rogin creational						
* Pageward							
- Password	Destroyed Constantial						
M Save as r	resened Credential						.
Backup Sets Image Copies							IJ

3. 显示 Delete All Expired:Specify Job Parameters 页面。您可以接受 Job Name、Job Description、Start time 和 Repeat 规范的默认值,或输入自己的值。如果您没有执行交叉查对操作,选择 Perform the operation 'Crosscheck All' before 'Delete All Expired'。 单击 Submit Job , 提交作业。

ORACLE Enterprise Manager 10g Database Control		Setus Preferences Help Logout
Database: orcl.us.oracle.com > Manage Current Backups	> Delete All Expired: Specify Job Parameters	Logged in As SYS
Delete All Expired: Specify Job Para	meters	
		Cancel Show RMAN Script Submit Job
An Enterprise Manager job will be created to perform the op	veration you chose on all backup sets and image copies	 Please specify the parameters to run the job.
 Job Name [Bkp_Mgmt_orcl.us.oracle.com_0000] 		
 Job Description Backup Management Job for 'Delete All 	Expired	
Perform the operation 'Crosscheck All' before 'Delete A	II Expired'.	
Schedule		
Time Zone GMT -8:00		
Shart		
start		
@ Immediately		
C Later	_	
Date Jan 28, 2004	0	
(example: Jan 28, 2004)		
Time 1 💌 05 💌 C AM @ PM		
Repeat	Repeat Until	
One Time Only	Indefinite	
C Interval	C Custom	
Frequency 1 Minutes	Date Jan 28, 2004	-1
A 11	(examples, easy poly poorly	

4. 在 Manage Current Backups 页面上显示了一条 Job Submission Succeeded 消息。您可以单击 View Job 来查看作业的状态。

ORACLE Enterprise Manager 10g				Setup	Preferences Help Data	Logod				
Database: orcl.us.oracle.com > Manage Current Backups					Logged	in As SYS				
(i) Job Submission Succeeded										
The job Bkp_Mgmt_orcl.us.oracle.com_000010' was successfully submitted for the operation 'Delete All Expired'. It will be executed at the scheduled time.										
View Job	<u>View Job</u>									
Manage Current Backups										
	Catalog	Additional Files Cros	scheck All Del	ete All Obsol	ete) Delete A	I Expired				
This backup data was retrieved from the database control file	e.									
Backup Sets Image Copies										
Search										
Status Available										
Contents 🗵 Datafile 🗹 Archived Redo Log 🗹 S	PFILE 🗹 Control File									
Completion Time Within a month 💌	GO									
Paculta	_									
Results				V						
			Crossched	K) Change t	to Unavailable	Delete				
Select All Select None	Completion Time 7	Contents	Device Type	Statue	Obsolate Kee	n Pieces				
BRACKUP OPCLUS OPA 012804115339	lan 28, 2004 11:55-19 AM	SPELE CONTROLEU	E DISK	AVAII ARI E	NO NO	1				
2 BACKUP ORCL US ORA 012804115339	Jan 28, 2004 11:55:16 AM	DATAFILE	DISK	AVAILABLE	NO NO	1				
	1	and and a little to the test	Start.		10					
Host Credentials										
To perform backup management operations, supply oper	ating system login credential	s.								
Ilsemame Inracle										

5. 在 Summary 区域中,您可以查看作业的状态。

ORACLE Enterprise Mana Database Control Job Run: BKP_MGMT_ORCL.UX Execution: orcl.us.or	ger 10g CORACLE.COM	1_000010_at_Jan 28, 200	14 1:13:38 PM GMT-0	<u>8:00</u> > 8	S Execution: orcl.us.oracle.com	etture.	Preferences Hele Lo Darabas	e e
Summary					Page Refreshed Jan 28, 2004 1:1	14:49	PM Delete Run	Edit
Status Succeeded Type Scheduled Jan 28, 2004 1913:38 PM GMT-08:00 Owner Started Jan 28, 2004 1913:39 PM GMT-08:00 Description Start Delayed 1 seconds Host Username Ended Jan 28, 2004 1:13:49 PM GMT-08:00 Database Connect String Elapsed Time 10 seconds Database Role Oracle Home Oracle SID RMAN Script RMAN Script			rpe Backup Management ner SYS ion Backup Management Job for 'Delete All Expired' oracle (DESCRIPTION=(ADDRESS_LIST=(ADDR e SYS ole [SYSDBA] me [/u01/app/oracle/product/10.1.0] 31D [orcl] log NO ript CROSSCHECK BACKUPSET; CROSSCHECK					
Logs								_
Search	6						Advanced 5	earch
Name Targets	Status	Started	A CHE 00.00	Ended	2004 1-12-10 EN1 ONE 00-00	Elap	osed Time (second	s)
EMAN orci.us.oracle.com	Succeeded	Jan 20, 2004 1:13:45 F	-MIGMI-08:00	Jan 26, 2	2004 1:13:49 PM GMT-08:00	4		
Copyright @ 1996, 2003, Oracle. All righ About Oracle Enterprise Manager 100 D	ts reserved. stabase Control	<u>Database</u>	Setup Preferences	<u>Help</u>	Logout		Delete Run)	at)

删除废弃备份

您可以通过执行以下步骤来删除所有废弃的备份:

1. 单击 Maintenance 属性页面的 Backup/Recovery 区域中的 Manage Current Backups 。

ORACLE Enterprise Manager 10g		Stelae Preferences Hele Losout Database
Database: orcl.us.oracle.com		Logged in As SYS
Home Performance Administration Maintenance		
Utilities	Backup/Recovery	Deployments
Export to Files Import from Database Load Data from File Gather Statistics Reorganize Objects Make Tablespace Locally Managed	Schedule Backup Perform Revent Manage Current Backups Configure Epickup Settings Configure Recovery Settings Configure Recovery Catalog Settings	Patch Clone Database Clone Oracle Home <u>View Patch Cache</u> <u>Configuration Collection Status</u> <u>Manage Policy Library</u> <u>Manage Policy Violations</u>
Home Performance Administration Maintenance Related Links		
Advisor Central All Metrics Jobs Monitoring Configuration	Alert History Blackouts Manage Metrics User-Defined Metrics	Alert Log Content ISQL'Plus Metric Collection Errors
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2. 显示 Manage Current Backups 页面。单击页面顶部的 Delete All Obsolete,从 RMAN 信息库中删除所有过时的备份。注意:您可以从 Backup Sets 或 Image Copies 页面中执行这一操作。

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Dat	abase (Enterprise Manager 10g Setus Preferences Hels Losout Control Database	-
			I.
Data	base: o	erclus.oracle.com > Manage Current Backups Logged in As SYS	I.
Ma	inage	e Current Backups	I.
		Catalog Additional Files) Crosscheck All (Delete All Obsolete) (Delete All Expired)	I.
This	backup	p data was retrieved from the database control file.	
Bag	kup Se	Image Copies	I.
5	Search	h	L
		Status Available •	L
		Contents 🗵 Datafie 🗹 Archèved Redo Loo 🗹 Control File	I.
	`omolot	tion Turon Militian a month	I.
È	20mpier		I.
F	Result	ts	L
		Crosscheck) Change to Unavailable) De	L
	Select A	All Select None	I.
	Select	Key Name File Type Tag Completion Time V Status Obsolete	I.
		4/u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_01_28/o1_mf_1_48_01jdr3wl_arc ARCHIVED n/a Jan 28, 2004 2:09:08 AVAILABLE NO LOG PM	l
		3 /u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_01_28/o1_mf_1_47_01j9j36w_arc ARCHIVED v/a Jan 28, 2004 1:13:39 AVAILABLE NO	1
		2 /u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_01_28/o1_mf_1_46_01)6508b_arc ARCHIVED /v/a Jan 28, 2004 AVAILABLE NO LOG 12:16:33 PM	
		1 /u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_01_28/o1_mf_1_45_01j2sdnq_arc ARCHIVED n/a Jan 28, 2004 AVAILABLE YES LOG 11:19:09 AM	
	-lost C	Credentials	
	o perfor	m backup management operations, supply operating system login credentials.	
			1
	_		

3. 显示 Delete All Obsolete:Specify Job Parameters 页面。您可以接受 Job Name、Job Description、Start time 和 Repeat 规范的默认值,或输入自己的值。单击 Submit Job ,提交作业。

ORACLE Enterprise Manager 10g		Setus Preferences Hels Losout Database
Database: orcl.us.oracle.com > Manage Current Backups Delete All Obsolete: Specify Job Para	> Delete All Obsolete: Specify Job Parameters meters	Logged in As SYS
An Enterprise Manager job will be created to perform the op • Job Name Bkp_Mgmt_orcl.us.oracle.com_0000	ration you chose on all backup sets and image copies. Ple	Cancel) Show RMAN Script) Submit Job ase specify the parameters to run the job.
Schedule Time Zone GMT-8:00	Josoiete	
Start © Immediately		
C Later Date Jan 28, 2004 (example: Jan 28, 2004) Time 2 10 C AM © PM		
Repeat	Repeat Until	
One Time Only	 Indefinite 	-
C Interval	C Custom	
Frequency 1 Minutes	Date Jan 28, 2004	
C Monthly	(example: Jan 20, 2004)	
C Yearly	Time is a solution of the	

4. 在 Manage Current Backups 页面上显示了一条 Job Submission Succeeded 消息。您可以单击 View Job 来查看作业的状态。

ORACLE Enterprise Manager 10g S Database Control	ietup Preferences Help Lopout Database
Database: orcl.us.oracle.com > Manage Current Backups	Logged in As SYS
(j) Job Submission Succeeded	
The job 'Bkp_Mgmt_orcl.us.oracle.com_000013' was successfully submitted for the operation 'Delete All Obsolete'. It will be exec	uted at the scheduled time.
View Job	
Manage Current Backups	
This backup data was retrieved from the database control file.	Obsolete Delete All Expired
Backup Sets Image Copies	
Search	
Status Available 💌	
Contents R Datafile R Archived Redo Log R Control File	
Completion Time Within a month 💌	
Results	
Crossch	eck) Change to Unavailable) De
Select All Select None	
Select Key[Name File Type Tag Completion	an Time V Status Obsolete
4.001/approraciemash_recovery_area/URCL/archivelog/2004_01_26/o1_mf_1_48_01jdr3wl_arc_VARCHIVED in/a Sain 20, 20	04 2.00.00 AVAILABLE NO
3/u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_01_28/o1_mf_1_47_01j9j36warc ARCHIVED n/a Jan 28, 20 LOG PM	04 1:13:39 AVAILABLE NO
2/u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_01_28/o1_mf_1_46_01j6508b_arc ARCHIVED n/a Jan 28, 20 LOG 12:16:33 F	04 AVAILABLE NO

5. 在 Summary 区域中,您可以查看作业的状态。

	RACL itabase	Enterprise Manag Control KP_MGMT_ORCLUS	ger 10g CORACLE.COM	1_000013 at Jan 28, 2004	2-22:08 PM GMT-08:00 >	Execution: orcl.us.oracle.com	Setue Preferences Help Losout
	_					Page Refreshed Jan 28, 2004 2:	23:06 PM Delete Run Edit
	Summ	ary					
	S Start Elap	Status Succeede icheduled Jan 28, 20 Started Jan 28, 20 I Delayed 2 seconde Ended Jan 28, 20 sed Time 11 second	ed 104 2:22:08 PM 104 2:22:10 PM 5 104 2:22:21 PM 104 2:22:21 PM	I GMT-08:00 I GMT-08:00 I GMT-08:00	Type Owner Description Host Username Database Connect String Database Role Oracle Home Oracle Home Oracle Home Oracle Stor Recovery Catalog RMAN Script	Backup Management SYS Backup Management Job for 'D oracle (DESCRIPTION=(ADDRESS_LIST SYS [SYSDBA] [/v01/app/oracle/product/10.1.0] [orcl] NO DELETE NOPROMPT OBSOLETI	elete All Obsolete* T=(ADDR E;
	Search		Go				Advanced Search)
	Name	Targets	Status	Started	Ended		Elapsed Time (seconds)
	RMAN	orcl.us.oracle.com	Succeeded	Jan 28, 2004 2:22:17 PN	1 GMT-08:00 Jan 28	2004 2:22:21 PM GMT-08:00	4
Cog	veright © 15 rut Oracle I	996, 2003, Oracle. All righ Enterprise Manager 10g D	ls reserved. Habase Control	<u>Database</u> I <u>S</u> e	etup Preferences Help	I Logout	Delete Run) Edit
							*

6. 返回 Image Copies 和/或 Backup Sets 属性页面来验证废弃的备份是否已被删除。

Dat	abase (Enterprise Manager 10 <i>g</i> Stella Preferences Hele Losout Introl Database	Î
Data	base: o	us oracle.com > Manage Current Backups Logged in As SY:	S
Ma	inage	Current Backups	
		Catalog Additional Files) Crosscheck All (Delete All Obsolete) (Delete All Expired	
This	backup	ta was retrieved from the database control file.	
Bac	kup Se	Image Copies	
5	Search		
		tatus Available 💌	
	0	tents 🔽 Datafile 🗹 Archived Redo Log 🗹 Control File	
	omnlati	Time Mithin a month x (60)	
`	2011preu		
F	Result		
		Crosscheck) Change to Unavailable)	De
-	Select A	Select None	
	Select	Hame File Type Tag Completion Time V Status Obsol	lete
		4/u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_01_28/o1_mf_1_48_01jdr3wl_arc ARCHIVED n/a Jan 28, 2004 2.09:08 AVAILABLE NO	
		3/u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_01_28/o1_mf_1_47_01/9/36warc_ARCHIVED_n/a_Jan 28, 2004 1:13:39 AVAILABLE NO	
		2/u01/app/oracle/flash_recovery_area/ORCL/archivelog/2004_01_28/o1_mf_1_46_01;6508barc ARCHIVED_n/a Jan 28, 2004 AVAILABLE NO	
	Host C	dentials	
T	o perfor	packup management operations, supply operating system login credentials.	
		• Usemame joracie	
4		* Password	<u>م</u>
<u> </u>	_		-

标记备份为 UNAVAILABLE

您可以通过执行以下步骤来把信息库中的备份标记为 UNAVAILABLE :

1. 单击 Maintenance 属性页面的 Backup/Recovery 区域中的 Manage Current Backups 。

ORACLE Enterprise Manager 10g Database Control		Setus Preferences Hels Looput Database
Database: orcl.us.oracle.com		Logged in As SYS
Home Performance Administration Maintenance		
Utilities	Backup/Recovery	Deployments
Export to Files Import from Files Load Data from File Gather Statistics Reorganize Objects Make Tablespace Locally Managed	Schedule Backup Perform Recovery Manage Current Backups Configure Electory Settings Configure Recovery Settings Configure Recovery Catalog Settings	Patch Clone Database Clone Oracle Home <u>View Patch Cache</u> <u>Cenfiguration Collection Status</u> <u>Manage Policy Unitary</u> <u>Manage Policy Violations</u>
Related Links		
Advisor Central All Metrics Jobs Monitoring Configuration	Alert History Blackouts Manage Metrics User-Defined Metrics	Alert Log Content ISQL'Plus Metric Collection Errors
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2. 显示 Manage Current Backups 页面。选择您希望标记为 UNAVAILABLE 的备份,并单击 Change to Unavailable 。

ORACLE Enterprise Manager 10g				Setup	Preferences Help Data	Logout A
Database: orcl.us.oracle.com > Manage Current Backups					Logged i	n As SYS
Manage Current Backups						
	Catalog	Additional Files Crosso	heck All) De	lete All Obsole	ne) (Delete All	Expired
This backup data was retrieved from the database control fil	e.					
Backup Sets Image Copies						
Search						
Status Accilable						_
Contents R Datafia R Asshingt Data Las R S	DEILE IX Control Eile					
Contents IN: Datanie M Archived Redo Log M S	Prile M Control File					
Completion Time Within a month	60					
Results						
			Crosscher	k) Change to	u Unavailable) [Delete
Select All Select None			(armine	A service of	2	
Select Key Tag	Completion Time 🗸	Contents	Device Type	Status	Obsolete Keep	Pieces
3 BACKUP_ORCL.US.ORA_012804115339	Jan 28, 2004 11:55:19 AM	SPFILE, CONTROLFILE	DISK	AVAILABLE	NO NO	1
Z BACKUP_ORCL.US.ORA_012804115339	Jan 28, 2004 11:55:16 AM	DATAFILE	DISK	AVAILABLE	NO NO	1
Host Credentials						
To perform backup management operations, supply oper	ating system login credential	s.				
Username oracle						_
· Password						
☑ Save as	Preferred Credential					
Backup Sets Image Copies						
						/ 💌

3. 显示 Confirmation 页面。单击 Yes ,继续操作。

ORACLE Enterprise Manager 10g Database Control	Setup	Preferences Help Logout Database
Database: orcl.us.oracle.com > Manage Current Backups > Confirmation		Logged in As SYS
Confirmation		
The operation 'Change to Unavailable' will be executed immediately and may take some time to complete. Are you sure you want to executed script will be executed:	ecute it	t now? The following RMAN
CHANGE BACKUPSET 2 UNAVAILABLE;		
Copyright @ 1996, 2003, Oracle. All rights reserved. <u>About Grasis Enterprise Manager 10g Database Control</u>		No Yes

4. 显示 Request in process 页面。

ORACLE Enterprise Manager 10g Database Control	Setua Preferences Hela Losout Database
	Logged in As SYS
Request in process	
т	he server is processing your request. Please wait
Copyright @ 1996, 2003, Oracle. All rights reserved. About Oracle Enterplice Manager 10g Database Control	latabase Setup Preferences Help Lopout

编制备份的目录

您可以为利用操作系统命令获取的备份编制目录,以便 RMAN 可以在恢复操作中使用它们。在本例中, 您将使用操作系统命令来备份属于 EXAMPLE 表空间的数据文件。然后您将使用 Enterprise Manager 来为 RMAN 信息库中的备份文件编制目录。

1. 调用 SQL*Plus,并作为一个拥有 SYSDBA 权限的用户登录。通过执行以下命令来使 EXAMPLE 表空间处于在线备份模式:

ALTER TABLESPACE example BEGIN BACKUP;

🗮 GESPC.STE - TNYTPlus	
Session Edit View Commands Script Help	
SQL> connect / as sysdba	
Connected.	
SQL> HLTER THBLESPHCE example BEGIN BHCKUP;	
Tablespace altered.	
SQL>	
	_
	<u> </u>
	111

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2. 返回操作系统提示符,创建属于 EXAMPLE 表空间的数据文件的一个拷贝。在本例中,拷贝创建在一个名称为 backup 的目录中。您可以使用您自己选择的一个目录。

🔜 GESPC.STE - TNYTPlus	
Session Edit View Commands Script Help	
SQL> host	
[oracle@EDRSR8P1 oracle]\$ cd \$ORACLE_BASE	
[[oracle@EDRSR8P1 oracle]\$ cp oradata/orcl/example01.dbf \$HOME/backup	
	•
	11.

3. 执行以下命令,使 EXAMPLE 表空间退出在线备份模式: ALTER TABLESPACE example END BACKUP;

GESPC.STE - TNYTPlus	
Session Edit View Commands Script Help	
SQL> ALTER TABLESPACE example END BACKUP;	-
Tablespace altered.	
sql> ∎	
	-

4. 现在您已经做好准备,可以利用 Enterprise Manager Database Control 来为 RMAN 信息库中的备份编制目录。单击 Maintenance 属性页面的 Backup/Recovery 区域中的 Manage Current Backups 。

ORACLE Enterprise Manager 10g Database Control		Setun Preferences Hela Lozost Database
Database: orcl.us.oracle.com		Logged in As SYS
Home Performance Administration Maintenance		
Utilities	Backup/Recovery	Deployments
Export to Files Import from Files Load Data from File Gather Statistics Reorganize Objects Make Tablespace Locally Managed	Schedule Backup Perform Recovery Manage Current Backups Configure Electrup Settings Configure Recovery Settings Configure Recovery Catalog Settings	Patch Clone Database Clone Oracle Home View Patch Cache Configuration Collection Status Manage Policy Library Manage Policy Violations
Home Performance Administration Maintenance		
Related Links		
Advisor Central All Metrics Jobs Monitoring Configuration	Alert History Blackouts Manage Metrics User-Defined Metrics	Alert Log Content (SQL*Plus Metric Collection Errors
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5. 选择 Manage Current Backups 页面顶部的 Catalog Additional Files 。

Database Control				Setup	Preferences	Help Lo Databa	se
Detabases and up and a core b. Manage Correct Realises						and in 1	4- CVC
Manage Current Backups					Lo	igged in 7	Asata
This backup data was retrieved from the database control file	Catalog .	Additional Files Crossc	heck All) De	lete All Obsole	ete) Del	ete All E	xpired
Backup Sets Image Copies		- M2-					
Search							
Status Available 💌							
Contents R Datafile R Archived Redo Log R S	PFILE 🗹 Control File						
Completion Time Within a month 💌	(60)						
Results							
			1	N		N	~
			Crossche	ck) Change t	o Unavailat	ble) Del	lete)
Select All Select None	Completion Time 7	Contents	Crossche	ck) Change t	o Unavailal	Del Del	lete)
Select All Select None Select Key Tag	Completion Time V	Contents SPELE CONTROLFILE	Crossche Device Type	Change to Change	o Unavailai Obsolete	Keep I	lete) Pieces
Select All Select None Select Key Tag Select Key Tag Select Key ORCL US ORA_012804115339 Select Kup ORCL US ORA_012804115339	Completion Time Jan 28, 2004 11:55:19 AM Jan 28, 2004 11:55:16 AM	Contents SPFILE, CONTROLFILE DATAFILE	Crossche Device Type DISK DISK	Change to Status AVAILABLE AVAILABLE	o Unavailat Obsolete NO NO	NO NO	Pieces
Select All Select None Select Key Tag Image: Select Key 3 BACKUP_ORCL US.ORA_012804115339 Image: Select Key 2 BACKUP_ORCL US.ORA_012804115339	Completion Time ♥ Jan 28, 2004 11:55:19 AM Jan 28, 2004 11:55:16 AM	Contents SPFILE_CONTROLFILE DATAFILE	Crossche Device Type DISK DISK	Status AVAILABLE AVAILABLE	o Unavailai Obsolete NO NO	NO NO	Pieces
Select All Select None Select Key Tag	Completion Time ♥ Jan 29, 2004 11:55:19 AM Jan 28, 2004 11:55:16 AM	Contents SPFILE_CONTROLFILE DATAFILE	Crossche Device Type DISK DISK	Change t Status AVAILABLE AVAILABLE	Obsolete NO NO	Keep I NO NO	Pieces
Select All Select None Select Key Tag	Completion Time ♥ Jan 29, 2004 11:55:19 AM Jan 29, 2004 11:55:16 AM ating system login credential	Contents SPFILE, CONTROLFILE DATAFILE S.	Crossche Device Type DISK DISK	Change to Status AVAILABLE AVAILABLE	o Unavailat Obsolete NO NO	Keep I NO NO	Pieces
Select All Select None Select Key Tag	Completion Time V Jan 28, 2004 11:55:19 AM Jan 28, 2004 11:55:16 AM ating system login credential	Contents SPFILE, CONTROLFILE DATAFILE S.	Crossche Device Type DISK DISK	Change to Status AVAILABLE AVAILABLE	o Unavailat Obsolete NO NO	Keep I NO NO	Pieces
Select AI Select None Select Key Tag	Completion Time Jan 28, 2004 11:55:19 AM Jan 28, 2004 11:55:16 AM ating system login credential	Contents SPFILE, CONTROLFILE DATAFILE S.	Crossche Device Type DISK DISK	Change to Status AVAILABLE AVAILABLE	o Unavailat Obsolete NO NO	Keep I NO NO	Pieces
Select All Select None Select Key Tag	Completion Time V Jan 28, 2004 11:55:19 AM Jan 28, 2004 11:55:16 AM ating system login credential	Contents SPFILE. CONTROLFILE DATAFILE S.	Crossche Device Type DISK DISK	Ck Change to Status AVAILABLE AVAILABLE	o Unavailai Obsolete NO NO	Keep I NO NO	lete) Pieces 1 1

6. 选择 Catalog files in the specified disk location into the Recovery Manager repository, 然后输入位置和备份文件的名称(无需文件扩展名)。单击 OK 。

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ORACLE Enterprise Manager 10g Database Control	Setup	Preferences Help Logout Database
Database: orcl > Manage Current Backups > Catalog Additional Files Catalog Additional Files		Logged in As SYS
C Catalog all files in the recovery area into the Recovery Manager repository Catalog files in the specified disk location into the Recovery Manager repository Starts With //home/oracle/backup/example01 Enter the directory and the lettmost part of the filename, e.g. Ausr/oracle/dest		
Database Setup Preferences Help Logout Copyright © 1996, 2004, Oracle. All rights reserved. About Craste Enterprise Manager 10g Database Control		Cancel OK
		-

7. 显示 Request in process 页面。

ORACLE Enterprise Manager 10g Database Control		Setup	Preferences Help Loadut Database
			Logged in As SYS
Request in process			
	The server is processing your request. Please wait		
Copyright @ 1996, 2003, Oracle. All rights reserved. About Grade Enterprise Manager 10g Database Control	Database Setup Preferences Help Logout		
	De		

8. 显示一条确认消息,指示已完成文件的目录编制。

Oracle DBA 两日速成课程 Http://www.yangwenjun.com 制作人:杨文军 摘自 Oracle 网站

ORACLE Enterprise Manager 10g				Setup	Preferences	<u>Helo</u> Los Databas	
							_
Database: orcl > Manage Current Backups					Lo	gged in A	s SYS
(j) Information							
The operation 'catalogFile' has been successfully executed.							
Manage Current Backups							
Catalog Additional Files Crosscheck All Delete All Obsolete Delete All Expired							
This backup data was retrieved from the database control file.							
Backup Sets Image Copies							
Search							
Status Available 💌							
Contents 🗹 Datafia 🗹 Archaed Pada Lon 🗹 SPEILE 🖾 Control File							
Completion Time Mithin a month X							
Results							
Crosscheck) Change to Unavailable Delete							
Select All Select None							_
Select Key Tag	Completion Time 💎	Contents	Device Type	Status	Obsolete	Keep P	ieces
BACKUP_ORCL_000003_021304102616	Feb 13, 2004 10:29:41 AM	ARCHIVED LOG	DISK	AVAILABLE	NO	NO	1
BACKUP_ORCL_000003_021304102616	Feb 13, 2004 10:28:54 AM	SPFILE, CONTROLFILE	DISK	AVAILABLE	NO	NO	1
BACKUP_ORCL_000003_021304102616	Feb 13, 2004 10:28:41 AM	DATAFILE	DISK	AVAILABLE	NO	NO	1
Host Credentials To perform backup management operations, supply ope	rating system login credentia	IS.					

