北亚 ORACLE 数据恢复软件 V1.12 软件使用说明

北亚 ORACLE 数据恢复软件是一款用于恢复 ORACLE 数据库文件的软件产品,主要 功能为重组 ORACLE 数据库碎片并导出完整的文件。

一、适用的灾难情况:

(1)ORACLE 数据库文件被误删除(2)存储重新分区、格式化导致 ORACLE 数据库文件丢失(3)存储突然断电、文件系统故障、fsck 导致 ORACLE 数据库文件丢失(4)ASM 存储故障导致 ORACLE 数据库文件丢失

二、支持的文件系统特性:

(1)支持的文件系统类型:

NTFS/EXT3/EXT4/REISERFS/REISER4/XFS/HTFS/UFS1/UFS2/JFS1/JFS2/VXFS /ASM

(2)支持的文件系统平台: Little Endian/Big Endian

(3)支持的文件系统块大小: 512 Bytes/1 KB/2 KB/4 KB/8 KB/16 KB/32 KB

、支持的数据库特性:

(1)支持的数据库版本: ORACLE 8i/ORACLE 9 i/ORACLE 10g/ORACLE 11g
(2)支持的数据库表空间模式: Smallfile Tablespace/Bigfile Tablespace
(3)支持的数据库文件块大小: 512 Bytes/1 KB/2 KB/4 KB/8 KB/16 KB/32 KB 及 自定义块大小

四、其他特性:

(1)支持虚拟磁盘文件扫描及恢复

(2)支持保存当前的扫描信息或加载已保存的扫描信息

- (3)支持创建自定义磁盘扫描区域或 ASM 磁盘组
- (4)支持千万级文件碎片扫描及多种不同的缓冲区大小
- (5)支持从数据库文件 ID/Size/Integrity/Version/Block Size 多方面进行过滤搜索(针 对数据库文件)
- (6)支持从数据库文件碎片 File ID/Block ID/Block Count/Block Size 多方面进行过滤 搜索(针对数据库文件碎片)
- (7)支持生成数据库文件可恢复性的技术报告

http://www.frombyte.cn

五、软件界面菜单介绍

(1)软件主界面介绍 图 1 所示为北亚 ORACLE 数据恢复软件的主界面:

Physical	Disk			[number]	I Burrent an Marca	Description	7.0
E - Hard	Disk O(Start:0	sector Size:1	6301488 sectors)	Parameter Type	Parameter Name	Parameter Value	_ ğ v
	ardDisk 0 Part	ition 1(Start:6	3 sector Size:6291	riesystem Parameters	Filesystem Platform	Little Endian	P
Line He	ardDisk 0 Part	ition 2(Start:6	2926605 sector Siz		Filesystem Type	NONE	2
B 🛩 Hard	Disk 1(Start:0	sector Size:20	9000001 sectors)	Database Parameters	Oracle Version	Auto	2
	ardDisk 1 Part	ition 1(Start:6	3 sector Size:4096!		Tablespace Mode	Smallfile Tablespace	Ť
	ardDisk 1 Part	ition 2(Start:4	0965750 sector Siz	and the second second	Database Block Size	512 Bytes/1 KB/2 KB/4 KB/8 KB/16 KB/32 KB	
- Ser Ha	ardDisk 1 Part	ition 3(Start:1	22881185 sector Si	Software Parameters	Support File Fragment Level	Ten Millions Level	9
- Virtual I	Disk				Buffer Size	8 MB	7
😏 Oracle /	SM			Source Parameters	Scan Member And Progress	None	le l
							=
				-			5
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h.		10	<u>ا ا</u>				
Abs	Date	Time	Message				
of a second second second	2012-2-9	11:11:42	Started to get al	I physical disk information.			
normation			a final state of the second state of the secon				

图 1

图 2 左侧为北亚 ORACLE 数据恢复软件的磁盘/磁盘组区域及相应菜单栏:

Construct to the construction of the cons	I Disk Disk (Ostart: 0 ardDisk 0 Parti ardDisk 0 Parti ardDisk 0 Parti ardDisk 10 Parti ardDisk 1 Part	e Oreals VI: BAP Sector Size: 1: dion 1(Start:6 dion 2(Start:6 sector Size: 1: dion 2(Start:6 dion 2(St	12 Guty://www. Gotty://wwwwwww. Gotty://www. Gotty://www. Gotty://www. Gotty://www. Gotty://www. Gotty://www. Gotty://www. Gotty://wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww	Parameter Type Filesystem Parameters Software Parameters Software Parameters Software Parameters Software Parameters Software Parameters	Parameter Name Parameter Name Plessystem Block Size Plessystem Platform Plessystem Platform Plessystem Platform Platebase Block Size Support File Fragment Level Buffer Size Scan Member And Progress	For Oracle In Data Recovery Center Parameter Value 4 KB Big Endan EX13 Auto Smallle Tablespace 512 Bytes J. KB/2 KB/4 KB/4 KB/16 KB/32 KB Ten Millions Level 8 MB HardDisk 1 Region(Start:63 sector Size: 40965607 sectors)(100% 5	Scan Parameters DB Files Info Fragments Info
•				<u>دا</u>			

>图2

图 3 右侧为北亚 0RACLE 数据恢复软件的磁盘/磁盘组详细信息、扫描参数信息、数据库文件信息、数据库文件碎片信息区域及相应菜单栏:

FROMBTTE R	econstructor	for Oracle VI.	12 (http://www.fro	abyte.com)		110 110 110 110 110 110 110 110 110 110					- III - IIII - III - IIII - IIIII - IIII - IIII - IIII - IIII - IIIII - IIII - IIII - IIII - IIIII - IIIII - IIII - IIIII - IIIII - IIII - IIII - IIII - IIIIII	8 >
File Tools &	ettings Becover	ry Help										
\bigcirc	C	FR	OMBY		Rec(01150 6-201:	TUCÌOF 1 by Beil	for O la Data	rade Recover	y Conta	F	
🖻 📝 Physica	al Disk			File Number	DB File ID	DB File Size	DB File Integrity	DB File Version	DB File Block Size	Instance Name	Tablespace Name	78
B-Hard	dDisk 0(Start:0	sector Size:1	56301488 sectors)		0	7.68 MB	100.00% Perfect	10g	16 KB	JWGL		- 8
- 50 H	lardDisk 0 Part	ition 1(Start:6	i3 sector Size:6291		0	7.68 MB	100.00% Perfect	109	16 KB	JWGL		1
-Se H	lardDisk 0 Part	ition 2(Start:0	2926605 sector Siz	2	0	7.68 MB	100.00% Perfect	10g	16 KB	JWGL		E I
🗄 🗇 Hard	dDisk 1(Start:0	sector Size:2	69000001 sectors)	03	9	500.0 MB	0.81% Perfect	10g	8 KB	JWGL	INDX	1B
-9 H	lardDisk 1 Part	ition 1(Start:6	i3 sector Size:4096	II 4	5	1.95 GB	Biles Billion		8 KB	JWGL	JWGL	
	lardDisk 1 Part	ition 2(Start:4	10965750 sector Siz	5	6	1.95 GB	Erres Litters		8 KB	JWGL	JWGL	10
- Ger H	lardDisk 1 Part	ition 3(Start:)	22001105 sector 5	06	7	1.95 GB	Explorer 18 Files Inf	Eo	8 KB	JWGL	JWGL	5
-See H	lardDisk 1 Reg	on(Start:63 s	ector Size:4096568	07	8	1.95 GB	Greate Diagnostic Rep	ort.	B KB	JWGL	3WGL	4
D Virtual	Disk			8	12	1.95 GB	Becover Marked Files	and the second se	8 KB	JWGL	JWGL	10
🔵 E:\d	fisk.001(Start:	0 sector Size:	(000000 sectors)	09	13	1.95 GB	b4.40% Perfect	rug	8 KB	JWGL	JWGL	12
E:\d	lisk.002/Start:	0 sector Size:-	1000000 sectors)	10	0	50.0 MB	100.00% Perfect	10g	1 KB			1
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ASM	1 Disk Group 1			0 12	0	50.0 MB	100.00% Perfect	10g	1 KB			13
OF.	\disk.001(Sta	rt:0 sector Sk	e:400000 sectors	0 13	3	930.0 MB	100.00% Perfect	10g	8 KB	JWGL	SYSAUX	- 19
do F	·\disk nn2fsta	rt:0 sector Siz	e-400000 sectors	14	10	800.0 MB	5.51% Perfect	10g	8 KB	JWGL	SYSAUX	1e
0.	. Juniorant are	i co sector on		0 15	1	1020.0 MB	100.00% Perfect	10g	8 KB	JWGL	SYSTEM	3
				16	11	800.0 MB	2.51% Perfect	10g	8 KB	JWGL	SYSTEM	15
				0 17	1	1000.0 MB	99.30% Perfect	109	8 KB	JWGL	TEMP	8
				18	2	1.22 68	100.00% Perfect	10g	8 KB	JWGL	UNDOTBS1	- 6
				19	•	5.U MB	100.00% Perfect	10g	ВКВ	JWGL	USERS	
•			L 1									
Туре	Date	Time	Message									1
Information	2012-2-9	11:16:47	Started to get a	I physical disk	information	۱.						-
Information	2012-2-9	11:16:47	Get all physical d	isk informatio	n completer	l						
Information	2012-2-9	11:24:10	Create scan regi	on of HardDis	k 1 succeed							
Information	2012-2-9	11:36:24	Scan HardDisk 1	Region(Start:	:63 sector S	ize:40965687	7 sectors) started.			SEJ.	10 1 F	

图 3

图 4 下方为北亚 ORACLE 数据恢复软件的日志区域:

			*						XN 7	2		
FROMBTTE Re	constructor I	or Gracle VI.	12 (http://www.fro	abyte.com)	deserver and the second second						الم ا	9 ×
file Lools Se	ttings Becover	FR	OMBY		Recc : 200	0 10 12 12 12	UCLOF by Beil	for O la Data	rade Recover	y Conto	e.	
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Date Hard	Dick O/Start-O	sector Size:1	(anti-sectors)	He Number	DB He ID	DB He Size	DB He Integrity	DB He Version	DB HIE Block Size	Instance Name	Tablespace Name	B
Line Ha	ardDick D Dorti	tion 1/Start:6	3 sector Size:6201	190	0	7.68 MB	100.00% Perfect	109	16 KB	JWGL		2
tie He	edDick 0 Part	tion 2/Start:6	2026605 contor Siz		U	7.68 MB	100.00% Perfect	10g	16 KB	JWGL		8
- Cir Lined	Diek 1/Chartel	contar Circul	2920003 sector 32	112	0	7.08 MB	100.00% Perfect	10g	10 KB	JWGL	an internet	믴
Hard	unat 1(Start:0	Sector Size:20	a constant Cincut 4006	113	9	500.0 MB	U.81% Perfect	10g	BKB	JWGL	INDX	99
- Ha	IndDisk 1 Part	tion 1(start:6	3 sector Size:409b	144	5	1.95 68	100.00% Perfect	109	8 KB	JWGL	JWGL	19
Se Ha	ardDisk 1 Part	tion 2(Start:4	0965750 sector 5iz	H:	6	1.95 68	100.00% Perfect	109	BKB	JWGL	JWGL	1
- Ha	ardDisk 1 Parti	tion 3(Start:1	22881185 sector 5	100	1	1.95 68	100.00% Perfect	10g	BKB	JWGL	JWGL	DB
Ha	ardDisk 1 Regi	on(Start:63 se	ctor Size:4096568	147	8	1.95 68	100.00% Perfect	10g	8 KB	JWGL	JWGL	1
🗄 😏 Virtual C	Disk			198	12	1.95 68	69.80% Perfect	10g	8 KB	JWGL	JWGL	100
E:\di	sk.001(Start:0	sector Size:4	000000 sectors)	19	13	1.95 68	64.40% Perfect	109	8 KB	JWGL	JWGL	Ŧ
E:\di	sk.002(Start:0	sector Size:4	000000 sectors)	0 10	0	50.0 MB	100.00% Perfect	10g	1 KB			f
🖻 🞯 Oracle A	SM			<u><u><u>u</u></u><u>n</u></u>	0	50.0 MB	100.00% Perfect	10g	1 KB			-
ASM	Disk Group 1			112	0	50.0 MB	100.00% Perfect	109	1 KB	1.000	1000000	6
- D E:	disk.001(Sta	t:0 sector Siz	e:4000000 sectors	1 13	3	930.0 MB	100.00% Perfect	10g	8 KB	JWGL	SYSAUX	18
20 E:	disk.002(Sta	t:0 sector Siz	e:4000000 sectors	14	10	800.0 MB	5.51% Perfect	10g	8 KB	JWGL	SYSAUX	18
	forest and forest			LI 15	1	1020.0 MB	100.00% Perfect	10g	8 KB	JWGL	SYSTEM	3
				16	11	800.0 MB	2.51% Perfect	10g	8 KB	JWGL	SYSTEM	E
				0 17	1	1000.0 MB	99.30% Perfect	10g	8 KB	JWGL	TEMP	<u> </u>
				18	2	1.22 68	100.00% Perfect	10g	8 KB	JWGL	UNDOTBS1	
				19	4	5.0 MB	100.00% Perfect	10g	вкв	JWGL	USERS	
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9		-	<u> </u>	1								1
Туре	Date	Time	Message									1
Information	2012-2-9	11:16:47	Started to get a	I physical disk	information	1.						-
Information	2012-2-9	11:16:47	Get all physical d	isk informatio	n completed	Save Log	To					
Information	2012-2-9	11:24:10	Create scan regi	on of HardDisi	k 1 succeed							-
Information	2012-2-9	11:36:24	Scan HardDisk 1	Region(Start:	63 sector S	ize:40965687	sectors) started.			E + + + 0	FTT # 6	*

(2)File 菜单介绍

图 5 所示为北亚 ORACLE 数据恢复软件的 File 菜单栏:



图6所示为北亚ORACLE数据恢复软件打开两个虚拟磁盘镜像 文件后的状态:

Virtual Virtual	al Disk dibisk O(Start: fardDisk O Part ardDisk O Part ardDisk I (Start: fardDisk 1 Part ardDisk 1 Part bisk.002(Start: ASM) sector Size:1 fitton 1(Start:6 fitton 2(Start:6 is sector Size:2 fitton 2(Start:4 fitton 2(Start:4 fitton 2(Start:63 sc 0 sector Size:4 0 sector Size:4	56301400 sectors 3 sector Size(52) 2926605 sector Siz 6000001 sectors 3 sector Size:4006 0905750 sector Si 3 sector Size:4096568 0000000 sectors 0000000 sectors)	Parameter Type Filesystem Parameters Database Parameters Software Parameters Source Parameters	Parameter Name Filesystem Block Size Filesystem Platform Filesystem Type Oracle Version Tablespace Mode Database Block Size Sapport File Fragment Level Buffer Size Scan Member And Progress	Parameter Value 4 KB Little Enclan NONE Auto Smillife Tablespace 512 Bytes/1 KB/2 KB/4 KB/8 KB/16 KB/32 KB Ten Millions Level B MB None	Scar Darameters DB Files Info Fragments Info
1			<u>ا</u>	1	1	1	
pe formation	Date 2012-2-9	Time 11:16:47	Message Started to get a	Il physical disk information.			
() Type Information Information	Date 2012-2-9 2012-2-9 2012-2-9	Time 11:16:47 11:16:47 11:24:10	Message Started to get a Get all physical o Create scan reg	II physical disk information. lisk information completed. ion of HardDisk 1 succeed.		1	

图 7 所示为北亚 ORACLE 数据恢复软件正在保存已扫描的数据 库文件及碎片信息(SCN 文件):

Hard	Disk 0(Start: ardDisk 0 Part ardDisk 0 Part Disk 1(Start: ardDisk 1 Part ardDisk 1 Part ardDisk 1 Part ardDisk 1 Reg Disk ASM	J sector Size:15 lition 2(Start:63 ition 2(Start:62 J sector Size:26 lition 2(Start:66 ition 2(Start:40 lition 3(Start:12 ion(Start:63 sec	6 共衆近的文档 9. (近日) 9. (正日) 9. (王) 9. (文件名 00: 保存类型 00:	MardDisk 1 Region SCH Scan Information Files(*	<u>▼</u> S(¥) <u>▼</u>	(保)	存(5) 取消	ablespace (/ 1 KB/2 KB/4 KB/8 KB/16 KB/32 KI is Level 1 Region(Start:63 sector Size:409	
								1		
Туре	Date	Time	Message							T
Information	2012-2-9	11:16:47	Started to get	all physical di	sk information.					
Information	2012-2-9	11:16:47	Get all physica	I disk informat	ion completed.					
Information	2012-2-9	11:24:10	Create scan re	egion of HardD	isk 1 succeed.					
Information	2012-2-9	11:36:24	Scan HardDisk	1 Region(Star	t:63 sector Size:4096568	7 sectors) sta	arted.			

图 7

图8所示为北亚ORACLE数据恢复软件正在加载已保存的数据 库文件及碎片信息(SCN文件):

Physica Physic	I Disk Disk 0 (Start: C ardDisk 0 Part ardDisk 0 Part ardDisk 1 Part	y 844 FROM Sector Size:15t ition 1(Start:63 ition 2(Start:60 sector Size:26t ition 1(Start:63 ition 2(Start:10 on(Start:63 sector)	サチ 登録	5 Davi Torecte	Porostimucibar far Oracia IX Inglan St Inglan
				文件名(图):	Har 印isk 1 Region. SCN _ 打开(0)
				文件类型([):	Scan Information Files(*.SCN) 文 取納 デジス尺達方式打开(2)
*					
Туре	Date	Time	Message		
Information	2012-2-9	11:16:47	Started to get	all physical d	isk information.
Information	2012-2-9	11:16:47	Get all physical	disk informat	tion completed.
		the second second second	Deer all a same and	alon of Handr	here a successful and the succes
Information	2012-2-9	11:24:10	create scan re	gion of Haru.	ASK I SULLEEU.

图9所示为北亚ORACLE数据恢复软件正在保存注册所需要的

(min

RGS 文件:

Physica Physica Hard Hard Hard Hard	I Disk IDisk O(Start:t ardDisk O Part ardDisk D Part Disk 1(Start:t ardDisk 1 Part ardDisk 1 Part) sector Size:150 ition 1(Start:63 ition 2(Start:62) sector Size:269 ition 1(Start:63 ition 2(Start:40)	保存在 (1) 一 市泉近的文档 発面 会	orecle) 🗘 🖙 🖬	6 6	r value ablespace /1 KB/2 KB/4 KB/8 KB/16 KB/32 KB	
₩ H W Virtual	ardDisk 1 Part ardDisk 1 Reg Disk ASM	ition 3(Start:12 ion(Start:63 sec	8 我的文档 第1 我的电脑 阿上和馬	文件名 (8): 保存类型 (7):	Karallsuk 1 Se Registration	<mark>ç: on: R65</mark> Files(*.865)	× •	(保存 (g) 取消	is Level 1 Region(Start:63 sector Size:409	D8 Files Into Fragments Into
.		1	,							_
Type	Date	Time	Message							1
Information	2012-2-9	11:16:47	Started to get	all physical d	lisk information	•				-
Information	2012-2-9	11:16:47	Get all physical	disk informa	tion completed.					-
	2012-2-0	11:24:10	Create scan re	cion of Hard	Disk 1 succeed.					

图 9

图 10 所示为北亚 ORACLE 数据恢复软件正在导入恢复时所需要的 LCS 授权注册文件:

Physica Physica Harry Ha	I Disk Disk 0(Start:1 IardDisk 0 Part IardDisk 0 Part IardDisk 1 Part IardDisk 1 Part IardDisk 1 Part IardDisk 1 Part IardDisk 1 Reg Disk Isk.001(Start: Isk.002(Start: ASM) sector Size:156 ition 1(Start:63) ition 2(Start:62) 5 sector Size:266 ition 2(Start:62) ition 2(Start:63) ition 2(Start:40) ition 3(Start:12; con(Start:63) sec 0 sector Size:40 0 sector Size:40	すま 重式花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また花園(1) また た た た た た た た た た た た た た) oracle MardDisk i	Region_DS	kan na kana ka ⊻	ar:(5ar)((1¥	C rein	DB File Block Size 16 KB 16 KB 16 KB 8 KB 1 KB 1 KB	Instance Nan WGL JWGL JWGL JWGL JWGL JWGL JWGL JWGL
💛 E	:\disk.001(Sta	rt:0 sector Size:		X	件名 00:	Har dDi sk	1 Region_RGS_LCS	<u> </u>	打开(0)		BKB	JWGL
- 🐑 E	:\disk.002(Sta	rt:0 sector Size:		X	件类型(1):	License	Key (*. LCS)		取適		SKB	1WGI
						F 비용해	方式打开(3)			-	8 KB	IWGL
			Essentiation				and the second second				8 KB	JWGL
					18	2	1.22 GB	100.00% Perfect	10g	1	8 KB	JWGL
				1	☑ 19	4	5.0 MB	100.00% Perfect	10g		8 KB	JWGL
					4	1	-					
•		1	-	-								
(Type	Date	Time	Message									
< Type Information	Date 2012-2-9	Time 11:16:47	Message Started to ge	t all	physical d	isk inform	ation.					
TypeInformationInformation	Date 2012-2-9 2012-2-9	Time 11:16:47 11:16:47	Message Started to ge Get all physica	t all al di	l physical d sk informa	isk inform tion compl	ation. leted.					
TypeInformationInformationInformation	Date 2012-2-9 2012-2-9 2012-2-9	Time 11:16:47 11:16:47 11:24:10	Message Started to ge Get all physica Create scan m	t all al di egio	l physical d sk informa on of Hardl	isk inform tion compl)isk 1 succ	ation. leted. :eed.					

- (3) Tools 菜单栏介绍:
- 图 11 所示为北亚 ORACLE 数据恢复软件的 Tools 菜单栏:

FROMBITE Re	constructor :	for Oracle V1.	12 (http://www.fro	abyte.com)	and the second		X
le Jouls Se Greate Scan Di Create Add Man Scan AS	ttings Recover Scan Bagion ak Or Region ASM Diak Group her To ASM Dia M Diak Group Diak	ry Help k Group	OMBY	TE Reco	nstructor -2012 by Beil	For Oracle 'a Data Recovery Center	10
B - Hardi	Disk O(Start:F) sector Size: 1	56301488 sectors)	Parameter Type	Parameter Name	Parameter Value	<u> </u>
Lee Ha	rdDisk 0 Part	ition 1(Start:6)	3 sector Size:6291	Hesystem Parameters	Hesystem Block Size	4 KB	
Se Ha	rdDisk 0 Part	ition 2(Start-6)	2026605 sector Siz		Resystem Platform	Little Englan	8
- Se Hardi	bisk 1(Start-f	sector Size:26	69000001 sectors)	Databaro Daramotore	Oracle Version	Auto	ž
- Sie Ha	rdDisk 1 Part	ition 1/Start-6	3 sector Size:4096	Decauase Parameters	Tablesnace Mode	Smallfile Tablesnace	ett
- See Ma	rdDisk 1 Part	ition 2(Start-4	0965750 sector Siz		Database Block Size	512 Rytes/1 KR/2 KR/4 KR/8 KR/16 KR/32 KP	2.2
the Ho	edDisk 1 Part	ition 3(Start:1	22881185 sector Si	Software Parameters	Support file Fragment Level	Jen Millions Level	0
Mittual C	ick	addit ofordi err	22001105 90000 00		Buffer Size	8 MB	8
Dracio A	SM			Source Parameters	Scan Member And Progress	None	
J. D. Galler F.					-		2
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							12
							9
							19
				-			8
							11
							0.
				-			
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ype	Date	Time	Message	an gana ang a			
formation	2012-2-9	11:11:42	Started to get al	I physical disk information.			
nor mation	2012 2 9	11.11.42	det an priysical d	ak anormation completed.			
						「日本」の目ます。	P
XXII	LX'						
113	SV.						

图 12、图 13 所示为北亚 ORACLE 数据恢复软件创建自定义磁盘扫描区域:

Hard	l Disk Disk O(Start:(ardDisk O Parl	0 sector Size:15 tition 1(Start:63	6301488 sectors) 8 sector Size:6291	Parameter Type Filesystem Parameters	Parameter Name Filesystem Block Size Filesystem Platform		Parameter Value 4 KB Little Endian
Hard Hard Hard Hard Hard Hard Hard Hard	ardDisk 0 Part Disk 1(Start:0 ardDisk 1 Part ardDisk 1 Part ardDisk 1 Part Disk ASM	tition 2(Start:6/ D sector Size:26 tition 1(Start:6) tition 2(Start:40 tition 3(Start:1/	2926605 sector Siz 9000001 se Great 3 sector Size 1965750 sec Disl 22881185 se Sta	 Scan Region (Size: 128.27 (rt:	Blassetow Tuno B(269000001 Sectors) 63 Sector	evel	NONE Auto Smallfile Tablespace 512 Bytes/1 KB/2 KB/4 KB/8 KB/16 KB/32 KB Ten Millions Level 8 MB None
			Size	a: 409	5568 Sectors		
ype oformation	Date 2012-2-9	Time	Message Started to get a	I obysical disk information.	1		
ype nformation	Date 2012-2-9 2012-2-9	Time 11:16:47 11:16:47	Message Started to get a Get all physical d	Il physical disk information. lisk information completed.	1		

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Physical Disk HardDisk (gitart:0 sector Size:156301408 sectors) HardDisk to Partition 1(Start:53 sector Size:62914 HardDisk to Partition 2(Start:52920605 sector Size:40905 HardDisk to Partition 1(Start:53 sector Size:40905 HardDisk to Partition 1(Start:3055759 sector Size:40905 HardDisk to Partition 2(Start:122801185 sector Size:40905007) Artual Disk Partition 2(Start:122801185 sector Size:40905007) Artual Disk	1560 sectors) e:93369780 sectors) 5687 sectors) e:81915435 sectors) 2e:146111175 sectors) / sectors)	Parameter Type Filesystem Parameters Database Parameters Software Parameters Source Parameters	Parameter Name Filesystem Block Size Filesystem Platform Filesystem Platform Tablespace Mode Database Block Size Support File Fragment Level Buffer Size Scan Member And Progress	Parameter Value 4 KB Little Endian NDNE Auto Smallfle Tablespace 512 Bytes/1 KB/2 KB/4 KB/8 KB/16 KB, Ten Millions Level 8 MB None
Date Time Message ation 2012-2-9 11:16:47 Started to get al ation 2012-2-9 11:16:47 Get all physical d ation 2012-2-9 11:24:10 Create scan regi	II physical disk informatio lisk information complete ion of HardDisk 1 succeed	图 13	E TA SHU	Set) . Bi k
tion 2012-2-9 11:16:47 Started to get al tion 2012-2-9 11:16:47 Started to get al get 11:16:47 Started to get al physical d DOL-2-9 11:24:10 Create scan regi No. 14 所示为北亚(14 Locassingtor for Oracle VI.12 Outp://www.for 15 Second To Content of the Second Second Second Second Seco	aphysical disk information lisk information complete ion of HardDisk 1 succeed ORACLE 数打 ORACLE 数打	图 13 居恢复软件	创建 ASM 磁盘	ØⅡ→●■≠ 盘组后的状态: de

图 14

图 15 所示为北亚 ORACLE 数据恢复软件正在添加多个磁盘到 ASM 磁盘组:

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图 17 所示为北亚 ORACLE 数据恢复软件扫描 ASM 磁盘组时所要选择的扫描 对象列表:

北亚 ORACLE 数据恢复软件 V1.12 使用说明 10-

http://www.frombyte.cn

Physica Physica Harc	A Disk IDisk 0(Start:1 ardDisk 0 Part	D sector Size: 1 tition 1(Start:6	6301488 se Select Oracle ASE Bisk Group	tor for Oracle BeiYa Data Recovery Center
Hard	ardDisk O Pari IDisk 1 (Start: ardDisk 1 Pari ardDisk 1 Pari ardDisk 1 Pari ardDisk 1 Reg Disk isk.001(Start: sisk.002(Start: ASM Disk Group 1 :\disk.001(Sta \\disk.002(Sta	ition 2(Start:6 3 sector Size:2 lition 1(Start:6 lition 2(Start:1 ion(Start:63 si 0 sector Size:4 0 sector Size:4 ort:0 sector Size art:0 sector Siz	9226605 sec 9 sector Size 9900001 sec 1965750 sec 22881185 se ctor Size:40 000000 sect 1000000 sect 10000000 sect 10000000 sect 10000000 sect 10000000 sect 10000000 sect 1000000 sect 10000000 sect 10000000 sect 10000000 sect 10000000 sect 10000000 sect 10000000 sect 100000000000 sect 1000000000000000000000000000000000000	NONE Auto Smallfile Tablespace S12 Bytes/1 KB/2 KB/4 KB/8 KB/16 KB/32 KB Ten Millions Level 8 MB None Cancel
d			2	
Tumo	Date	Time	Message	4
yhe	2012-2-9 2012-2-9	11:16:47 11:16:47 11:24:10	Started to get all physical disk information. Get all physical disk information completed. Create scan region of HardDisk 1 succeed.	-

图 18 所示为北亚 ORACLE 数据恢复软件扫描磁盘/磁盘组时选择相应文件 系统参数的界面:



图 19 所示所示为北亚 ORACLE 数据恢复软件扫描磁盘/磁盘组时选择相应数据库文件参数的界面:

北亚	ORACLE	数据恢复软件	V1.12	使用说明
11-	$\sim \infty$	12		

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OFROMMETE R. File Icels Se	tennstructor I attings Becover	for Oracle ¥1 y <u>N</u> elp	12 Octty //www.freehyte.com)				
Physica Physica Physica Hard H H H H H H H H H H H H H H H H H H H	I Disk Disk (Start:0 ardDisk 0 Part IDisk 1(Start:0 ardDisk 1 Part ardDisk 1 Part ardDisk 1 Part ardDisk 1 Part ardDisk 1 Part	sector Size ition 1(Star isocro Size ition 2(Star ition 3(Star on(Start:6)	Scan Database Block Size 5 12 Bytes F 1 KB 5 12 Bytes 5 12 Bytes 5 12 Bytes 5 12 Bytes 5 12 Bytes 5 13 Bytes 5 13 Bytes 5 1 1 KB 5 2	Ctor for Ore y BeiYa Data Ro Scan Tablespace Mode © Smallfile Tablespace © Bigfile Tablespace © Bigfile Tablespace	International Content of Content	Parameter Value 4 KB Little Endian NONE Auto Smallfile Tablespace 512 Bytes/1 KB/2 KB Ten Millions Level 8 MB None	oran caronicara of Files 100 Files 100
			<u>*[</u>				
Туре	Date	Time	Message				
Information	2012-2-9	11:16:47	Started to get all physical disk information.				
Information	2012-2-9	11:16:47	Get all physical disk information completed.				
Information	2012-2-9	11:24:10	Create scan region of HardDisk 1 succeed.				
	1						_

图 19

图 20 所示为北亚 ORACLE 数据恢复软件扫描磁盘/磁盘组时选择程序运行 参数的界面:



图 21、图 22 所示为北亚 ORACLE 数据恢复软件开始扫描磁盘/磁盘组的进度:

北亚 ORACLE 数据恢复软件 V1.12 使用说明 12-

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图 22

图 23 所示为北亚 ORACLE 数据恢复软件扫描后显示的数据库文件信息列

表:

北亚	ORACLE	数据恢复软件	V1.12	使用说明	
13-	$\sim \chi$	+112			

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HardDisk 0(Start:0 sector Size:156301488 sectors) He Kunizer 00 He Ku 00 H	Magaace Kame WGL WGL VGL VGL VGL VGL VGL VGL VGL VGL VGL V
Date Time Message ation 2012-2-9 11:16:47 Started to get all physical disk information. ation 2012-2-9 11:16:47 Get all physical disk information.	
ation 2012-2-9 11:24:10 Create scan region of HardDisk 1 succeed. ation 2012-2-9 11:36:24 Scan HardDisk 1 Region(Start:63 sector Size:40065667 sectors) started. ation 2012-2-9 11:47:17 Scan HardDisk 1 Region(Start:63 sector Size:40965667 sectors) finished.	1.6
团 oo	
图 20	
图 23 Settings 菜单介绍 24 斫云为北亚 ORACLF 数据恢复软件的 Settings 茎单栏,	
图 23 Settings 菜单介绍 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏:	,
图 23 Settings 菜单介绍 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏:	5
图 23 Settings 菜单介绍 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏:	-18
Stars Settings 菜单介绍 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏: He Researcher for Gracke YL 12 GMCp. //www.frankyle.cm/ Extense Researcher For Gracke Stars Researcher For Oracle Researcher For Gracke Stars Filter Researcher For Gracke Stars Filter	3
图 23 Settings 菜单介绍 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏:	-10
国内 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	; 21-
国内部 25 Settings 菜单介绍 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏: 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏: 25 July 26	;
国家 日本 1995 Settings 菜单介绍 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏: 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏: 25 Example Settings Table Settings Table Settings Table Settings Table Settings Set Market Settings Set Market Settings Set Market Settings Set Market Settings Set Settings Set Setting Seting Setting Seting Setting Setting Setting Setting Seti	
医子 2 Settings 菜单介绍 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏:	
国家 23 Settings 菜单介绍 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏:	
SET 23 Settings 菜单介绍 24 所示 为北亚 ORACLE 数据恢复软件的 Settings 菜单栏: Settings 菜单介绍 24 所示 为北亚 ORACLE 数据恢复软件的 Settings 菜单栏: Settings 菜a Settings 菜 a Settings a Set	
Set Lange 菜单介绍 24 所示为北亚 ORACLE 数据恢复软件的 Settings 菜单栏:	
HY H	

Defau	lt Filesystem 1	Parameters	.2	
De	efault Filesysten	n Block Size	Default Filesyste	m Platform
	8	Sectors	• Little Endian	O Big Endian
De	efault Filesysten	n Type	1	
	• NONE	C NTFS	С ЕХТЗ	C EXT4
	C REISERFS	C REISER4	C XFS	C HTFS
	O UFS1	C UFS2	O JFS1	C JFS2
	C VXFS	C ASM		

图 26 所示为北亚 ORACLE 数据恢复软件的默认数据库文件参数对话框:

efault Oracle V	ersion		Default Tablespace Mode
Auto	O Oracle 8i	O Oracle 9i	Smallfile Tablespace
Oracle 10g	C Oracle 11g		C Bigfile Tablespace
fault Databas	e Block Size		
7 512 Bytes	🗹 1 КВ	☑ 2 KB	4 KB 🔽 8 KB
7 16 KB	☑ 32 KB	Custom Size:	8 KB
	Uncoloct		Inuort OK

图 27 所示为北亚 ORACLE 数据恢复软件的默认运行参数对话框:

北亚 ORACLE 数据恢复软化	牛 V1.12 使用说明	http://www.fromby	/te.cn	HIL
	efault Softwar	e Parameters		JINONG'
	-Default Suppo C One Millio	ort File Fragment Le on Level 📀 Ten M	vel Millions Level	
A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	Default Buffe	r Size		
	C 1 MB	C 2 MB	○ 4 MB	****
	• 8 MB	C 16 MB	C 32 MB	W HABH
the thought	Restore	Set Default	OK	*
ALL UPUT	K H Shust	图 27	K ONOTIN	
图 28、图 29 月	乐示分别为北亚	ORACLE 数据恢复	软件的数据库文	件过滤对
话框及过滤结	果的文件列表:		Privit	
VillerTT. Beconstructor for Gracks VI. 12	(http://www.frankyta.com)	× Kity o	2~	

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北亚 ORACLE 数据恢复软件 V1.12 使用说明 16-

http://www.frombyte.cn

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ROUBBITE Reconstructor for Oracle VI. 12 Ottp://www.frombyte
 File Tools Settings Recovery Belp

N.

ROMBYTE Reconstructor for Oracle

E SP Physica	il Disk			File Number	DB File ID	DB File Size	DB File Integrity	D8 File Version	DB File Block Size	Instance Nam
E 🖙 Hard	IDisk Ø(Start:() sector Size:1	56301488 sectors)	04	5	1.95 GB	100.00% Perfect	10g	8 KB	JWGL
- 160 H	ardDisk 0 Part	ition 1(Start:6	3 sector Size:6291	D 5	6	1.95 GB	100.00% Perfect	10g	8 KB	JWGL
- See H	ardDisk 0 Part	ition 2(Start:6	2926605 sector Siz		7	1.95 GB	100.00% Perfect	10g	8 KB	JWGL
🖯 🖙 Haro	Disk 1(Start:0) sector Size:20	69000001 sectors)	07	8	1.95 GB	100.00% Perfect	10g	8 KB	JWGL
-5# H	ardDisk 1 Part	ition 1(Start:6	3 sector Size:4096	15	1	1020.0 MB	100.00% Perfect	10g	8 KB	JWGL
- 60 H	ardDisk 1 Part	ition 2(Start:4	0965750 sector Siz	17	1	1000.0 MB	99.30% Perfect	10g	8 KB	JWGL
- See H	ardDisk 1 Part	ition 3(Start:1)	22881185 sector S	18	2	1.22 68	100.00% Perfect	10g	8 KB	JWGL
1	ardDisk 1 Reg	ion/Start:63 se	ctor Size:4096568							
- Virtual	Disk			-						
- 😼 Oracle	ASM			-						
				-						
				-						
								-		
				-						
				-						
				-						
•		1	<u>ب</u>	4						<u>></u>
Туре	Date	Time	Message							4
and the second se	2012-2-9	11:16:47	Started to get a	l physical disk	information	1.				
Information		11-16-47	Get all physical d	isk informatio	n completed	l.				
Information Information	2012-2-9	TT. TO. 11	more on proyoncer o							
Information Information Information	2012-2-9 2012-2-9	11:24:10	Create scan regi	on of HardDisl	k 1 succeed					

图 30、图 31 所示分别为北亚 ORACLE 数据恢复软件的数据库文件碎片过 滤对话框及过滤结果的文件碎片列表:



北亚 ORACLE 数据恢复软件 V1.12 使用说明 17-

http://www.frombyte.cn

A		9		PROVIDENCES					
PROMETTE R	constructor	for Uracle VI.	12 (http://www.fre	abyte.comJ					리즈
Pile Jeels Se	I Disk	FRO	MBYTE	Recon	Structo 2012 by I	or for O lei Ya Data	Tacle Recovery Ce	DCCC Frament Block Size *	2
🖻 🖙 Hard	Disk O(Start:) sector Size:15	6301488 sectors)	□ 162	5	10246	512	8 KB -	19
He	ardDisk 0 Parl	tition 1(Start:63	3 sector Size:6291	163	5	10758	512	8 KB	Pa
He He	ardDisk 0 Part	tition 2(Start:6)	2926605 sector Siz	□ 164	5	11270	512	8 KB	1.
🖻 🖙 Hard	Disk 1(Start:) sector Size:26	9000001 sectors)	□ 165	5	11782	512	8 KB	3
H	ardDisk 1 Part	tition 1(Start:63	l sector Size:4096	166	5	12294	512	8 KB	te
	ardDisk 1 Part	tition 2(Start:40	965750 sector Siz	167	5	12806	512	8 KB	3
H	ardDisk 1 Part	tition 3(Start:1)	22881185 sector S	168	5	13318	512	8 KB	D
	ardDisk 1 Reg	ion/Start:63 se	ctor Size:4096568	169	5	13830	512	8 KB	B
- Virtual I	Disk			170	5	14342	512	8 KB	10
Oracle /	ASM			171	5	14854	512	8 KB	SI
go or dele r				172	5	15366	512	8 KB	nfe
				173	5	15878	512	8 KB	101
				174	5	16390	512	8 KB	Fre
				175	5	16902	512	8 KB	ġ
				176	5	17414	512	8 KB	ne
				177	5	17926	512	8 KB	nts
				178	5	18438	512	8 KB	H
				179	5	18950	512	8 KB	fo
				180	5	19462	512	8 KB	
				181	5	19974	512	8 KB	
41		1		∏ 182 ∢	5	20486	512	8 KB	1
Type	Date	Time	Message						-
Information	2012-2-9	11:16:47	Started to get al	physical disk inform	nation.				-
Information	2012-2-9	11:16:47	Get all physical d	sk information com	oleted.				1
Information	2012-2-9	11:24:10	Create scan regi	on of HardDisk 1 suc	ceed.				
Information	2012-2-9	11:36:24	Scan HardDisk 1	Region(Start:63 sec	tor Size:40965687	sectors) started.			-

图 31

图 32 所示为北亚 ORACLE 数据恢复软件扫描结果中某一特定数据库文件的 所有碎片信息列表:

FROMBTTE B.	econstructor	for Oracle VI.	12 (http://www.fre	abyte.com)		No		
File Icols Se	attings Bacova	ay Kelp						
0	C	FRO	MBYTE	Recon	Struct 2012 by I	or for O ei¥a Data	racle Recovery Ce	oter
🖻 射 Physica	al Disk			Fragment Number	Fragment File ID	Fragment Block ID	Fragment Block Count	Fragment Block Size *
🖻 🖙 Hard	Disk O(Start:	0 sector Size:1	56301488 sectors)	□ 162	5	10246	512	8 KB
	ardDisk 0 Par	tition 1(Start:6	3 sector Size:6291	163	5	10758	512	8 KB
Lie H	lardDisk 0 Par	tition 2(Start:6	2926605 sector Siz	164	5	11270	512	8 KB
E Se Hard	Disk 1(Start:	0 sector Size:20	59000001 sectors)	II 165	5	11782	512	BKB
	ardDisk 1 Par	tition 1/Start:6	3 sector Size:4096	10 166	5	12294	512	8 KB
HardDisk 1 Partition 2(Start:40965750 sector Siz				167	5	12806	512	8 KB
				168	5	13318	512	8 KB
HardDisk 1 Partition 5(start:122001103 sector 5			ctor Size:4096568	1096568	5	13830	512	8 KB
Narrubisk 1 Region Start 65 Sector Size 4096368				170	5	14342	512	8 KB
Oracle	ASM			171	5	14854	512	8 KB
gr or dele i				172	5	15366	512	8 KB
				173	5	15878	512	8 KB
				174	5	16390	512	8 KB
				175	5	16902	512	8 KB
				176	5	17414	512	8 KB
				177	5	17926	512	8 KB
				178	5	18438	512	8 KB
				179	5	18950	512	8 KB
				180	5	19462	512	8 KB
				181	5	19974	512	8 KB
10				□ 182	5	20486	512	8 KB 🚬
•			<u>.</u>	•		and the second sec		
Туре	Date	Time	Message					
Information	2012-2-9	11:16:47	Started to get a	I physical disk inform	nation.			
Information	2012-2-9	11:16:47	Get all physical d	isk information com	pleted.			
Information	2012-2-9	11:24:10	Create scan regi	on of HardDisk 1 su	ceed.			
Information	2012-2-9	11:36:24	Scan HardDisk 1	Region(Start:63 sec	tor Size:40965687	sectors) started.		

图 32

(4) Recovery 菜单栏介绍:

图 33 所示为北亚 ORACLE 数据恢复软件的 Recovery 菜单栏:



http://www.frombyte.cn

Mar S					11	4		\wedge	1 3	KE 7 N	
PEOLINIA Leconstructor for Eile Iools Settings Lecovary Explore Greats : Becover	Ornels VI.1: Help r DS Files Info r Fragments Inf Diagnostic Repo Murked Files	at ABY	17.5.	Reco	nsti	Uctor	for (Drade	3		<u>_@</u> ×
HardDisk ()(Start:0 s HardDisk 0)(Start:0 s HardDisk 0) Partitic HardDisk 1 Partitic	etor size:156 m 1(Start:63 m 2(Start:62 etor size:260 m 1(Start:406 m 3(Start:122	301488 sectors) sector Sizectors) sector Sizectors) sector Sizectors) sector Sizectors Sizector Sizectors 8881185 sector Siz	Paramete Filesystem Database Software Source Pa	r Type n Parameters Parameters Parameters rameters	Paramett Filesyste Filesyste Filesyste Dracle V Tablospa Databas Support Buffer Si Scan Mer	r Name n Block Size n Block Size n Fyze rision ce Nodole Block Size ib Fragment Level re aber And Progress	Data Data Description Atto Smallile T S12 Bytes, Ten Million A MB None	A KACOVA	ary Con		Scan Parameters DB Files Info Fragments Info
t Date Date Information 2012-2-9 Information 2012-2-9	Time 11:11:42 11:11:42	Message Started to get all Get all physical di	I physical di isk informat	sk information. ion completed.							
									ØE.	J °. ⊞ ± P	
图 34 所示为	Dracke VI. 15 Holp FRC	ORACLE	数据 TE	恢复的 Reco	次件主 のSU	日描到的) UCUOF Lby Beil	所有数 for(a Dat	数据库文 Oracle	て件信息 Sery Cear	息列表: ter	.(8) ×
Physical Disk HardDisk 0(Start:0 st	ector Size:156	5301488 sectors)	File Numbe	er DB File ID 0	DB File Size 7.68 MB	DB File Integrity 100.00% Perfect	DB File Ver 10g	sion DB File Block 16 KB	Size Instance N JWGL	ame Tablespace N	ame
HardDisk 0 Partitio	on 1(Start:63 on 2(Start:62 actor Simo20	sector Size:6291 926605 sector Siz		0	7.68 MB 7.68 MB	100.00% Perfect 100.00% Perfect	10g 10g	16 KB 16 KB	JWGL JWGL	TRAFTICE .	Paran
HardDisk 1(Startto s	on 1(Start:63	sector Size:4096		5	500.0 MB 1.95 GB	0.81% Perfect 100.00% Perfect	10g 10g	B KB B KB	JWGL JWGL	JWGL JWGL	leters
HardDisk 1 Partitio	on 3(Start: 12	2001105 sector 52		7	1.95 GB	100.00% Perfect	10g	8 KB	JWGL	JWGL	DB
Virtual Disk	(Start:03 sec	tor 5ize:4090308		12	1.95 GB	69.80% Perfect	109	8 KB	JWGL	JWGL	Files
Uracle ASM			0 10	0	50.0 MB	100.00% Perfect	10g	1 KB	JANGE	, wat	Info
			012	0	50.0 MB 930.0 MB	100.00% Perfect	109	1 KB 8 KB	TWG	SYSAUX	Frag
			L 14 L 15	10 1	800.0 MB 1020.0 MB	5.51% Perfect 100.00% Perfect	10g 10g	8 KB	JWGL JWGL	SYSAUX	ment
			D 16	11	800.0 MB 1000.0 MB	2.51% Perfect 99.30% Perfect	10g 10g	8 KB 8 KB	JWGL JWGL	SYSTEM TEMP	s Info
			18 19	2 4	1.22 GB 5.0 MB	100.00% Perfect 100.00% Perfect	10g 10g	8 KB	JWGL JWGL	UNDOTBS1 USERS	
() Tuma Dista	Timo	Massare.			_			-			
Information 2012-2-9	11:16:47	Started to get all Get all physical d	I physical d	isk information.							
Information 2012-2-9	11:47:17	Scan HardDisk 1	Region(Sta	rt:63 sector Siz	e:40965687	sectors) finished.			(A =		
									Ph		

图 34

图 35 所示为北亚 ORACLE 数据恢复软件扫描到的所有数据库文件碎片信息列表:

北亚 ORACLE 数据恢复软件 V1.12 使用说明 19http://www.frombyte.cn

 Private 	al Disk Disk OKart: lardDisk O Part ardDisk 10 Part dDisk 1 (Start: lardDisk 1 Part lardDisk 1 Part lardDisk 1 Part lardDisk 1 Reg Disk ASM	(Start:0 sector Size:155301489 sectors) sk 0 Partition 1(Start:63 sector Size:2690 sk 0 Partition 2(Start:62/2605 sector Size:26900001 sectors) sk 1 Partition 2(Start:162/5750 sector Size:4096 sk 1 Partition 2(Start:162/5750 sector Size:4096 sk 1 Partition 3(Start:122/81185 sector Size:4096568 sk 1 Region(Start:63 sector Size:4096568	Fragment Number 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Pragment Hie ID 0	Pragment Block ID 0 0 3 259 0 3 259 3 0 3 259 5 0 5 13 259 518 1030 1542 2054 2054 2566 3078 3590 4102 4614	Fragment Block Lount 3 256 234 3 256 234 3 256 234 3 256 234 512 212 512	Fragment Block Size 16 KB 9 KB 9 KB 9 KB 9 KB 8 KB	can Parameters DB Files Info Fragments Info	
				D 20	0	5126	512	8 KB	info Fragments Into
				22	0	6150	512	8 KB	
				23	0	6662	512	8 KB	
								and a second	

图 35

图 36 所示为北亚 0RACLE 数据恢复软件在导出数据库文件时的未注册提示 对话框,在导入授权注册文件(LCS 文件)后此对话框消失:

OFENBRITE 6	constructor	For Gracis VI 1	2 Ohttp://www.fra	abyte. cosl	12	-				_10	1 ×
Eile Ivols I.	ttings Becover	ry Help									
0	Ç	FRO	MBYTE	Rec sht 20	01151 03-201	ITUCI 12 by 1	o r for O bi¥a Data) racle Recover	y Center		-
🖯 😏 Physica	l Disk			File Number	DB File ID	DB File Size	DB File Integrity	DB File Version	DB File Block Size	Instance Nan	8
🖻 🗇 Hard	Disk O(Start:() sector Size:15	6301488 sectors)		0	7.68 MB	100.00% Perfect	10g	16 KB	JWGL	3
- 500 H	ardDisk 0 Part	tition 1(Start:63	sector Size:6291	1	0	7.68 MB	100.00% Perfect	10g	16 KB	JWGL	Pa
	ardDisk 0 Part	tition 2(Start:62	926605 sector Siz	2	0	7.68 MB	100.00% Perfect	10g	16 KB	JWGL	2
🖻 🥯 Hard	Disk 1(Start:() sector Size:26/	9000001 sectors)	3	9	500.0 MB	0.81% Perfect	10g	8 KB	JWGL	B
- Sir H	ardDisk 1 Part	tition 1(Start:63	sector Size:4096	☑ 4	5	1.95 GB	100.00% Perfect	10g	8 KB	JWGL	to
- 40 H	ardDisk 1 Part	tition 2(Start:40	965750 sector Siz	☑ 5	6	1.95 GB	100.00% Perfect	10g	8 KB	JWGL	s.
- S# H	ardDisk 1 Part	tition 3(Start:12	2881185 sector S	₫ 6	7	1.95 GB	100.00% Perfect	10g	8 KB	JWGL	D
	ardDisk 1 Reg	ion(Start:63 sec	tor Size:4096568	7	0	1.05.00	100 00% Perfect	10g	8 KB	JWGL	BF
E Virtual I	Disk			8	ning		× D% Perfect	10g	8 KB	JWGL	ile
E:\di	sk.001(Start:	0 sector Size:40	100000 sectors)	Ø9 s	Jacted method	in not regist	D% Perfect	10g	8 KB	JWGL	SI
E:\di	sk.002(Start:	0 sector Size:40	100000 sectors)	☑ 10	acted served		00% Perfect	10g	1 KB		nfc
In St Oracle	SM	o sector sector		☑ 11	1000	ME I	D0% Perfect	10g	1 KB		-
ASM	Disk Group 1			☑ 12	(Conce	CONTRACTOR OF	D0% Perfect	10g	1 KB		E
	dick not (Sta	et:0 sector Size	400000 sectors	☑ 13	3	930.0 MB	100.00% Perfect	10g	8 KB	JWGL	g.
6	disk.001(sta	rt:0 sector Size	:4000000 sectors	14	10	800.0 MB	5.51% Perfect	10g	8 KB	JWGL	10
E.	/usk.uuz(ota	s to sector bize	.4000000 sectors	☑ 15	1	1020.0 MB	100.00% Perfect	10g	8 KB	JWGL	15
				16	11	800.0 MB	2.51% Perfect	10g	8 KB	JWGL	E
				☑ 17	1	1000.0 MB	99.30% Perfect	10g	8 KB	JWGL	6
				☑ 18	2	1.22 GB	100.00% Perfect	10g	8 KB	JWGL	
				☑ 19	4	5.0 MB	100.00% Perfect	10g	8 KB	JWGL	
4		1		•							
Tuno	Date	Time	Massaga								1
Information	2012-2-0	11:16:47	Started to get al	I physical dis	k informatio						-
Information	2012-2-9	11:16:47	Got all physical d	sk informati	n complete	1					-
Information	2012-2-9	11:24.10	Create scan reni	on of HardDi	k 1 succeer						
Information	2012-2-9	11:36:24	Scan HardDisk 1	Region(Star	:63 sector 9	ize:40965693	sectors) started				-
			are rear courses a	Juniora			sector of starteur				-

图 36

图 37、图 38 所示分别为北亚 0RACLE 数据恢复软件在导入授权注册文件 (LCS 文件) 后的恢复路径选择及文件恢复进度:

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AMBRITE Reconstructor for Oracle VI. 12 Octy /	/eve frankyts.com)	X.t			1170	.S ^r -
Tools Settings Becovery Balp		/				
EROMBY	ATTE Rea	തെടുന്നുന്ന	ar far (Ö	ിന്നു (
	orright 20	05-2012 by I	loiYa Date	Recover	y Center	
Physical Disk	File Number	DB File ID DB File Size	DB File Integrity	DB File Version	DB File Block Size	Instance Na
HardDisk 0(Start:0 sector Size:156301488 s	ectors) 🗹 0	0 7.68 MB	100.00% Perfect	10g	16 KB	JWGL
HardDisk 0 Partition 1(Start:63 sector Siz	e:6291 🗹 1	0 7.68 MB	100.00% Perfect	10g	16 KB	JWGL
浏览文件夹	1×2 전2	0 7.68 MB	100.00% Perfect	10g	16 KB	JWGL
-	5 1 4	5 1.95 GB	100.00% Perfect	10g	8 KB	JWGL
A COLUMN TO A COLUMN	2 2 5	6 1.95 GB	100.00% Perfect	10g	8 KB	JWGL
🕀 🔂 Documents and Settings	A B 26	7 1.95 GB	100.00% Perfect	10g	8 KB	JWGL
Virt D Intel		12 1.95 GB	69.80% Perfect	10g	8 KB	JWGL
e I I I I I I I I I I I I I I I I I I I	₩ 9	13 1.95 GB	64.40% Perfect	10g	8 KB	JWGL
D E QUARANTINE	₩ 10	0 50.0 MB	100.00% Perfect	10g	1 KB	
Dra CYCLER	_ <u>₩</u> 11 № 12	0 50.0 MB	100.00% Perfect	10g	1 KB	
System Volume Information	13	3 930.0 MB	100.00% Perfect	10g	8 KB	JWGL
🔹 🗄 🔂 vnpub	S 🗆 14	10 800.0 MB	5.51% Perfect	10g	8 KB	JWGL
① DVD/CD-RY 驱动器 (D:)		1 1020.0 MB	100.00% Perfect	10g	8 KB	JWGL
	2 17	1 1000.0 MB	99.30% Perfect	10g	8 KB	JWGL
通常 取湯	18	2 1.22 GB	100.00% Perfect	10g	8 KB	JWGL
		4 5.0 MB	100.00% Perfect	10g	8 KB	JWGL
	<u>.</u>		×	14 1		1
Date Time Message	,					
nation 2012-2-9 11:16:47 Started	to get all physical dis	k information.				
nation 2012-2-9 11:16:47 Let all pl nation 2012-2-9 11:24:10 Creates	nysical disk informatic ican region of HardDis	in completed. It 1 succeed				
nation 2012-2-9 11:36:24 Scan Ha	rdDisk 1 Region(Start	:63 sector Size:4096568	7 sectors) started.			
7			7.1			
FROMB	/TE Rec	onstruct	or for C)rade		
Physical Disk	pyright 20	06-2012 by I	ei Ya Data	Recover	y Conter	t Block Size :
HardDisk 0(Start:0 sector Size:156301488 s	ectors) 25	5	0	4	8 KB	-
 HardDisk 0 Partition 1(Start:63 sector Siz HardDisk 0 Partition 2(Start:62026605 co 	e:6291 140	5	6	512	8 KB	
 HardDisk 1(Start:0 sector Size:269000001 sector Size:2690000001 sector Size:26900000001 sector Size:269000000000000000000000000000000000000	ectors) 142	5	1030	512	8 KB	
	e:4096 🔲 143	5	1542	512	8 KB	
HardDisk 1 Partition 2(Start:40965750	ecover DB Files Proc	C 635	0064	512	8 KB	
HardDisk 1 Partition 3(Start:122881185				512	BKB	
/irtual Disk	Current Recover File:	C:\oracle\JWGL\J	WGL_5_4	512	8 KB	
E:\disk.001(Start:0 sector Size:4000000 s				512	8 KB	
E:\disk.002(Start:0 sector Size:4000000 s	Skip Current File		Abort Recover	512	8 K8	
Dracle ASM	112131		3030	512	8 KB	
Find the sector Size: 4000000 - Size: 4000000 - Size: 40000000 - Size: 40000000 - Size: 40000000 - Size: 4000000000 - Size: 400000000 - Size: 4000000000 - Size: 400000000 - Size: 40000000000 - Size: 4000000000000000000000000000000000000	sectors 152	5	6150	512	8 KB	
E:\disk.002(Start:0 sector Size:4000000)	sectors 153	5	6662	31	8 KB	
	155	5	7174	481	8 KB	
	157	5	7686	512	8 KB	
	2 158	5	8198	512	8 KB	
	159	5	8710	512	8 KB	
		3	7111	312	0 1.0	
Date Time Message	,					
Date Time Message nation 2012-2-9 11:16:47 Started nation 2012-2-0 11:16:47 Cost all all	s to get all physical disl	k information.				
Date Time Message mation 2012-2-9 11:16:47 Started mation 2012-2-9 11:16:47 Get all pl mation 2012-2-9 11:24:10 Create s	to get all physical disl hysical disk informatic can region of HardDis	c information. In completed. k 1 succeed.				

Off di prysica das internation screptista. Create scan region of Hardbisk 1 succeed. Scan Hardbisk 1 Region(Start:63 sector Size:40965687 sectors) started.

图 38

(5) Help 菜单栏介绍

图 39 所示为北亚 ORACLE 数据恢复软件的 Help 菜单栏:

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