## DBRECOVER FOR MYSQL User Guide

DBRECOVER FOR MYSQL is a MySQL database (InnoDB) recovery tool. It can recover database data in scenarios where there is no backup, such as instance crashes, corrupted InnoDB dictionaries preventing database startup, DROP DATABASE, DROP TABLE, TRUNCATE TABLE, DELETE TABLE, and disk or file system damage.

#### Features:

- Graphical user interface, no need to learn command line.
- Supports MySQL versions from 5.1 to 8.0, including the new data dictionary structure in MySQL 8.0.
- Supports INNODB storage engine.
- Capable of data recovery in various MySQL instance failure scenarios.
- Recovery results in MYSQLDUMP format SQL files.
- Supports recovery of rows deleted with the DELETE command.
- Supports table recovery from DROP TABLE and TRUNCATE TABLE commands.
- Supports database recovery from DROP DATABASE operations.
- Capable of recovery in cases of disk failure or file system damage.
- The free version allows extracting up to 1000 rows per table, and 100 rows of data deleted using the DELETE command.
- Developed in Java, supports operating systems like Windows, Redhat, Centos, Ubuntu.
- Supports recovery of FRM files by converting them into CREATE TABLE SQL statements.

• Supports recovery of large objects like LOB/TEXT.

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🖻 actor.sql 🗶
-- Table structure for table `actor`
/*!40101 SET @saved_cs_client = @@charac
/*!40101 SET character_set_client = utf8 */;
                                                                   = @@character_set_client */;
 CREATE TABLE `actor
                 `actor_id` SMALLINT UNSIGNED NOT NULL,
`first_name` VARCHAR(45) CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci NOT NULL,
`last_name` VARCHAR(45) CHARACTER SET utf8mb4 COLLATE utf8mb4_general_ci NOT NULL,
vast_name VARCHAR(45) CHARACTER SET u
`last_update` TIMESTAMP NOT NULL,
PRIMARY KEY (`actor_id`),
KEY 'idx_actor_last_name` (`last_name`)
) ENGINE=InnoDB;
(*14010E.SET.);
/*!40101 SET character_set_client = @saved_cs_client */;
-- Dumping data for table `actor`
- -
LOCK TABLES `actor` WRITE;
/*!40000 ALTER TABLE `actor` DISABLE KEYS */;
/*140000 ALLER TABLE actor DISABLE KEYS */;
INSERT INTO `actor` VALUES (1,'PENELOPE','GUINESS','2006-02-15 04:34:33');
INSERT INTO `actor` VALUES (2,'NICK','WAHLBERG','2006-02-15 04:34:33');
INSERT INTO `actor` VALUES (3,'ED','CHASE','2006-02-15 04:34:33');
INSERT INTO `actor` VALUES (4,'JENNIFER','DAVIS','2006-02-15 04:34:33');
```

actor.sql (~/Desktop/dbrecover-for-mysql-pkg/data/20200526142213) - gedi

```
mysql -uroot -p < actor.sql</pre>
Enter password: *******
```

```
mysql -uroot -p
Enter password: *******
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 13
Server version: 8.0.14 MySQL Community Server - GPL
```

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affiliates. Other names may be trademarks of their respective
owners.
```

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> use employees;
Database changed
```

mysql> select count(\*) from actor; +----+ | count(\*) | +---+ 200 +----+ 1 row in set (0.00 sec)

### To recover from a DROP DATABASE scenario

mysql> drop database employees; Query OK, 14 rows affected (0.16 sec)

#sync #sync

Start the DBRECOVER FOR MYSQL software and select the DROP DATABASE recovery scenario.

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Choose the correct MySQL database version.

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Choose SELECT DIRECTORY and enter the path to the @@datadir directory, then click start.

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The software will scan the ibdata1 or mysql.ibd files and the @@datadir disk.

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Click on the dropped databases node to find and recover tables from the dropped databases.

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# To recover from DROP TABLE and TRUNCATE TABLE scenarios

The recovery steps apply to both DROP TABLE and TRUNCATE TABLE scenarios.

mysql> select count(\*) from employees.employees;

+----+ | count(\*) | +----+ | 300024 |

```
+----+

1 row in set (0.09 sec)

mysql> select @@datadir;

+-----+

| @@datadir |

+-----+

| /m01/ |

+-----+

1 row in set (0.00 sec)
```

mysql> drop table employees.employees; ERROR 1217 (23000): Cannot delete or update a parent row: a foreign key constraint fails

mysql> SET FOREIGN\_KEY\_CHECKS=0; Query OK, 0 rows affected (0.00 sec)

mysql> drop table employees.employees; Query OK, 0 rows affected (0.02 sec)

mysql> ^DBye

#sync #sync

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Copyright (c) 2000, 2019, Oracle and/or its affiliates. All rights reserved.						
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.						
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.						
mysql> select count(*) from employees.employees;						
count(*)						
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1 row in set (0.09 sec)						
mysql> select @@datadir;						
@datadir						
++ 1 row in set (0.00 sec)						
nysql> drop table employees.employees; ERROR 1217 (23000): Cannot delete or update a parent row: a foreign key constraint fails nysql> SET FOREIGN_KEY_CHECKS=0; Query OK, 0 rows affected (0.00 sec)						
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Start the software and select the DROP TABLE recovery scenario.

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Choose the correct MySQL database version.

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Select SELECT DIRECTORY, enter the path to the @@datadir directory, and click start.

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The software will scan ibdata1 or mysql.ibd and the disk where @@datadir is located.

**Important**: Enter the original @@datadir directory, not a copied directory from after the issue occurred. The software needs to scan the file system of the @@datadir's mount point to find the dropped data.

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Then click on the dropped tables node under the corresponding database to see if the dropped table exists.

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For TRUNCATE TABLE, simply check the normal table nodes in the database tree to view and export data.

The data of the table can be observed on the right side of the interface, and the subsequent recovery follows the regular mode.

### To recover from a DELETE TABLE scenario

mysql> use employees; Database changed mysql> select count(\*) from employees; +-----+ | count(\*) | +----+ | 1000 | +-----+ 1 row in set (0.00 sec)

mysql> delete from employees;

mysql> flush table employees with read lock; Query OK, 0 rows affected (0.01 sec)

In scenarios where table records are accidentally deleted, they can be recovered using the undelete feature of DBRECOVER FOR MYSQL.

Locate the corresponding ibd file, like employees.ibd for the employees table.

Start DBRECOVER FOR MYSQL, select 'Add ibd file' from the start menu, and add the ibd file.

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DBRecover for MySQL v2.1		

Right-click on the ibd file and choose scan. After scanning, corresponding page files appear.

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Right-click and enter the SQL statement for creating the table, obtainable via the 'show create table' command in MySQL.

<pre>mysql&gt; show create table employees;</pre>
+++
+
Table   Create Table
+++
<pre>  employees   CREATE TABLE `employees` ( `emp_no` int(11) NOT NULL, `birth_date` date NOT NULL, `first_name` varchar(14) NOT NULL, `last_name` varchar(16) NOT NULL, `gender` enum('M','F') NOT NULL, `hire_date` date NOT NULL ) ENGINE=InnoDB DEFAULT CHARSET=latin1   ++</pre>
1 row in set (0.01 sec)
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After clicking confirm, table information appears on the right. Click on 'deleted data'.

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	10014	1956-02- <mark>1</mark> 2	Berni	Genin	Μ	1987-03-11				
	10015	1959-08-19	Guoviano	Nooteboom	м	1987-07-02				~
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Click 'Export to file' to recover the deleted data as MYSQLDUMP format INSERT statements.

Rea LUW	Data Deleted Data X	
RD IBD		
<ul> <li>Employees.ibd</li> </ul>	Row records: 100 Only 100 rows of data will be shown here at most Export to file	
LD 0000000000133.page	emp_no birth_date first_name last_name gender hire_date	
PAGE	10084 1900-03-25 10081 Kalloun M 1995-12-15	
	10085 1902-11-07 Kenroku Malabarba M 1934-04-09	
	10086 1962-11-19 Sommath Foote M 1990-02-16	
	10087 1999-07-23 Xinglin Eugeno F 1998-09-08	
	10088 1994-02-25 Jundson Svizvda P 1988-09-02	
	10069	
	10090	
	Exported rows totally: 100	
	10022 Elapsed time totally: 0.01	
	1003	
	toos Exported file path: deleted/employees.sql	
	10095	
	10097	
	10098 OK	
	10000 1055-05-25 Valtar Sulfree F 1058-10-18	

### FRM FILES TO CREATE TABLE SQL

DBRECOVER FOR MYSQL offers free functionality for reading and recovering FRM files. To use this feature:

DBRecover for MySQL –	_	×
Start Help		
Navigator		
Add frm.		
Add ibd ibd		
Add page 000000000049.page		
Add page dir		
Quit		
DBRecover for MySQL v2.1		

Select 'Add frm file' on the main interface of the software.

Double-click on the added frm file or right-click to view it. The corresponding CREATE TABLE statement will be displayed on the right side of the interface, which users can copy.

DBRecover for MySQL		-	×
Start Help			
<ul> <li>▼ Salaries.frm</li> <li>▼ Salaries.ibd</li> <li>♥ Salaries.ibd</li> <li>♥ 00000000000049.page</li> <li>♥ PAGE</li> </ul>	salaries.frm X            Table structure for table 'salaries'         Created with MySQL Version 5.7.28            CREATE TABLE 'salaries' (         'emp_no' in(1) NOT NULL,         'salary' in(1) NOT NULL,         'salary' in(1) NOT NULL,         'rom_date' date NOT NULL,         'pro_date' date NOT NULL,         'PRIMARY KEY ('emp_no', 'from_date')         ) ENGINE=InnoDB DEFAULT CHARSET=latin1;         I		

### Checking Recoverable Row Count on Data Tables

In recovery scenarios, this feature allows users to understand the number of records that can be recovered from a table.

Simply right-click on the data table and select 'Show Table Recoverable Row Count'.

Ð			DBReco	ver for MySQL			_ = ×
Start Help Buy&Register							
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bassis_points	2	Qandahar	AFG	Qandahar	237500		
category	3	Herat	AFG	Herat	186800		
iii city	4	Mazar-e-Sharif	AFG	Balkh	127800		
Compret III Desc Tab		NLD	Noord-Holland	731200			
consultir      Show Create Table     consultir      Show Table Data     cost_ad     Show Table recoverable row count     cost_ad     Show table recoverable row count			NLD	Zuid-Holland	593321		
			NLD	Zuid-Holland	440900		
			NLD	Utrecht	234323		
			NLD	Noord-Brabant	201843		
	10	Tilburg	NLD	Noord-Brabant	193238		
cost_colligate	11	Groningen	NLD	Groningen	172701		
cost_company	12	Breda	NLD	Noord-Brabant	160398		
iii cost_complaint	13	Apeldoorn	NLD	Gelderland	153491		
i cost_document	14	Nijmegen	NLD	Gelderland	152463		
cost_download	15	Enschede	NLD	Overiissel	149544		
cost_engineer							~
cost_file	Tab	ole full name: `emp	loyees`.`city`				
cost_labour	i cost_labour Table id: 159 Table primary index id: 232						
I cost_market	Tat	ple primary page ful	I path: /root/pages	/15b80cfe-3ee6-	4b17-8181-66d443d160	48/index/00000000000	000232.page
cost_material							

