Employees Sample Database

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For legal information, see the Legal Notices.

For help with using MySQL, please visit the MySQL Forums, where you can discuss your issues with other MySQL users.

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1 Preface and Legal Notices

This document describes the employees sample database—its history, installation, structure and usage.

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2 Introduction

This document describes the Employees sample database.

The Employees sample database was developed by Patrick Crews and Giuseppe Maxia and provides a combination of a large base of data (approximately 160MB) spread over six separate tables and consisting of 4 million records in total. The structure is compatible with a wide range of storage engine types. Through an included data file, support for partitioned tables is also provided.

In addition to the base data, the Employees database also includes a suite of tests that can be executed across the test data to ensure the integrity of the data that you have loaded. This should help ensure the quality of the data during initial load, and can be used after usage to ensure that no changes have been made to the database during testing.

3 Installation

The Employees database is available from Employees DB on GitHub. You can download a prepackaged archive of the data, or access the information through Git.

To use the Zip archive package, download the archive and unpack it using WinZip or another tool that can read .zip files, then change location into the unpacked package directory. For example, using unzip, execute these commands:

```
shell> unzip test_db-master.zip
shell> cd test_db-master/
```

The Employees database is compatible with several different storage engines, with the InnoDB engine enabled by default. Edit the <code>employees.sql</code> file and adjust the comments to choose a different storage engine:

```
set storage_engine = InnoDB;
-- set storage_engine = MyISAM;
-- set storage_engine = Falcon;
-- set storage_engine = PBXT;
-- set storage_engine = Maria;
```

To import the data into your MySQL instance, load the data through the mysql command-line tool:

```
shell> mysql -t < employees.sql
INFO
| CREATING DATABASE STRUCTURE |
INFO
| storage engine: InnoDB |
INFO
| LOADING departments |
+-----+
INFO
| LOADING employees |
+-----+
| LOADING dept_emp |
INFO
 LOADING dept_manager
| LOADING titles |
 INFO
| LOADING salaries |
```

+----+

To test that the data you have loaded matches the expected results, run the test suite. For more information, see Section 4, "Validating the Employee Data".

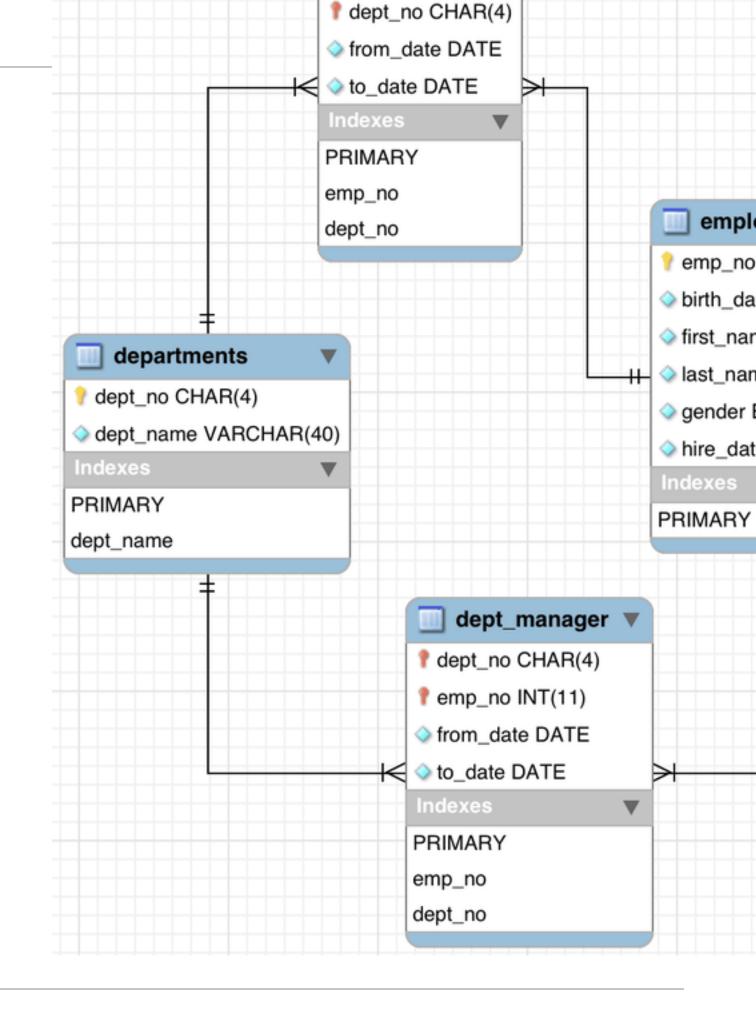
4 Validating the Employee Data

You can validate the Employee data using two methods, md5 and sha. Two SQL scripts are provided for this purpose, test_employees_sha.sql and test_employees_md5.sql. To run the tests, use mysql:

INFO				
TESTING INSTA	+ LLATION +			
table_name	+ expected_record	+ ab	expected_crc	
employees	300024		4d4aa689914d8fd41db7e45c2168e7dcb9697359	
departments	9		4b315afa0e35ca6649df897b958345bcb3d2b764	
dept_manager	24		9687a7d6f93ca8847388a42a6d8d93982a841c6c	
dept_emp	331603		f16f6ce609d032d6b1b34748421e9195c5083da8	
titles	443308			
salaries	2844047		b5a1785c27d75e33a4173aaa22ccf41ebd7d4a9f	
	+	+		
table_name	found_records		found_crc	
employees	30002	+ 24	4d4aa689914d8fd41db7e45c2168e7dcb9697359	
departments		9	4b315afa0e35ca6649df897b958345bcb3d2b764	
dept_manager	1	24	9687a7d6f93ca8847388a42a6d8d93982a841c6c	
dept_emp	33160	03	f16f6ce609d032d6b1b34748421e9195c5083da8	
titles	44330	08	d12d5f746b88f07e69b9e36675b6067abb01b60e	
salaries	284404	47	b5a1785c27d75e33a4173aaa22ccf41ebd7d4a9f	
	+	+		
table_name	records_match	cr	c_match	
employees	OK	 ok	:	
departments	OK	i ok		
dept_manager	OK	ok	:	
dept_emp	OK	ok	;	
titles	OK	ok	:	
salaries	OK	ok	:	
eal 0m37.067s ser 0m0.007s ys 0m0.009s nell>time mysq	l -t < test_emplo	oyee	es_md5.sql	
INFO	+			
TESTING INSTA	LLATION			
table_name	+ expected_record	+ ds	expected_crc	
employees	+30002	+ 24	4ec56ab5ba37218d187cf6ab09ce1aa1	
departments	30002	9	dlaf5e170d2d1591d776d5638d71fc5f	
departments dept_manager		ا ^و ا 24	8720e2f0853ac9096b689c14664f847e	
dept_manager dept_emp	33160	- 1	c2c4fc7f0506e50959a6c67ad55cac31	
b o_cb	33100		111111111111111111111111111111111111111	

5 Employees Structure

The following diagram provides an overview of the structure of the Employees sample database.



6 License for the Employees Database

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