Employees Sample Database

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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:

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

The Employees database is compatible with several different storage engines, with the InnoDB engine enabled by default. Edit the employees.sql 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:

```
$> mysql -t < employees.sql</pre>
| INFO
CREATING DATABASE STRUCTURE
| INFO
| storage engine: InnoDB |
-----+
INFO
                | LOADING departments |
    _____
+-----+
INFO
| LOADING employees |
   _____+
INFO
| LOADING dept_emp |
 ----+
INFO
| LOADING dept_manager |
```

++	
INFO	
++	
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:

<pre>\$>time mysql -t</pre>	< test_employees_	sha.sql		
+				
+	LLATION +			
table_name	expected_records	expected	l_crc	
<pre>+</pre>	300024 9 24 331603 443308 2844047	4b315afa 9687a7d0 f16f6ce0 d12d5f74	9914d8fd41db7e45c2168e7dcb9697359 a0e35ca6649df897b958345bcb3d2b764 5f93ca8847388a42a6d8d93982a841c6c 509d032d6b1b34748421e9195c5083da8 46b88f07e69b9e36675b6067abb01b60e 527d75e33a4173aaa22ccf41ebd7d4a9f	
+ table_name	found_records	-+	ne	
employees departments dept_manager dept_emp titles salaries	300024 9 24 331603 443308 2844047	4b315afa 9687a7d0 f16f6ce0 d12d5f74	0914d8fd41db7e45c2168e7dcb9697359 40e35ca6649df897b958345bcb3d2b764 5f93ca8847388a42a6d8d93982a841c6c 509d032d6b1b34748421e9195c5083da8 46b88f07e69b9e36675b6067abb01b60e 527d75e33a4173aaa22ccf41ebd7d4a9f	
+ table_name	+- records_match	crc_match	•	
<pre> employees departments dept_manager dept_emp titles salaries +</pre>	OK OK OK OK	ok ok ok ok ok ok	- - - -	
user 0m0.007s sys 0m0.009s				
\$>time mysql -t +	< test_employees_	md5.sql		
INFO +	+			
TESTING INSTAN +	++ ++	_+	+	
table_name +	expected_records	expected	l_crc	

employees	300024		4ec56ab5ba37218d187cf6ab09ce1aa1
departments	9		d1af5e170d2d1591d776d5638d71fc5f
dept_manager	24		8720e2f0853ac9096b689c14664f847e
dept_emp	331603		c2c4fc7f0506e50959a6c67ad55cac31
titles	443308		bfa016c472df68e70a03facafa1bc0a8
salaries	2844047		fd220654e95aea1b169624ffe3fca934
+			
table_name	found_records		found_crc
employees	300024		4ec56ab5ba37218d187cf6ab09ce1aa1
departments	9		d1af5e170d2d1591d776d5638d71fc5f
dept_manager	24		8720e2f0853ac9096b689c14664f847e
dept_emp	33160)3	c2c4fc7f0506e50959a6c67ad55cac31
titles	443308		bfa016c472df68e70a03facafa1bc0a8
salaries	2844047		fd220654e95aea1b169624ffe3fca934
+		4 +	·+
table_name	records_match c		c_match
employees	++ OK ok		+ .
departments	OK oł		
dept_manager	OK ol		
dept emp	OK ol		
and the method of the second s	OK ol		
titles	UK.		

user 0m0.007s sys 0m0.009s

5 Employees Structure

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

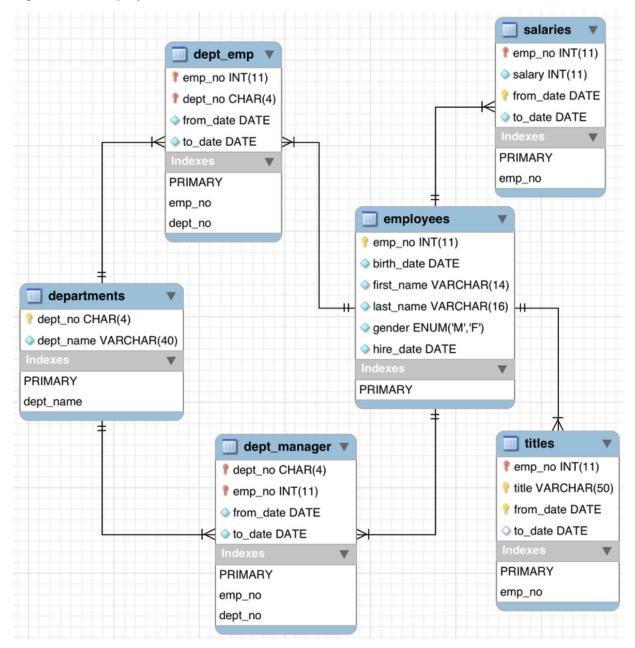


Figure 1 The Employees Schema

6 License for the Employees Database

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