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.

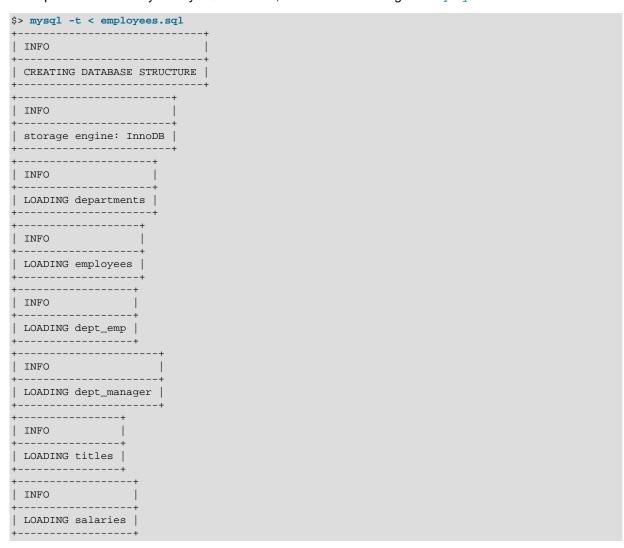
To use the Zip archive package, download the archive and unpack it using WinZip or another tool that can read .zip files, then change location into the unpacked package directory. For example, using unzip, execute these commands:

```
$> 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 <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:



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

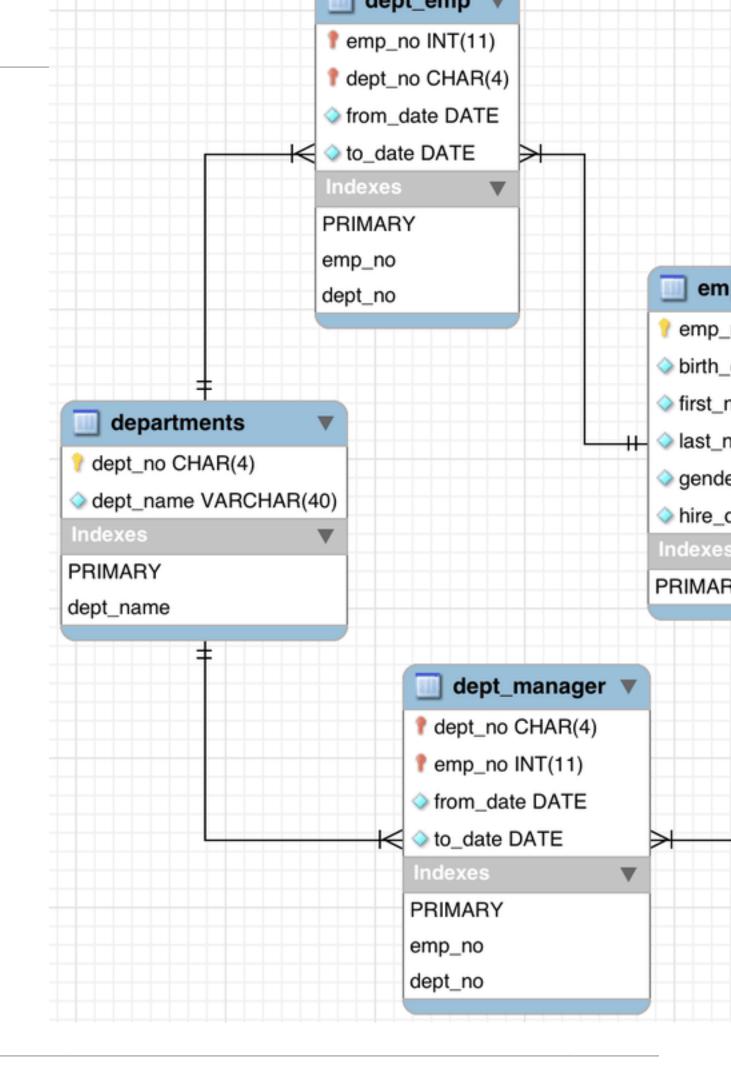
You can validate the Employee data using two methods, md5 and sha. Two SQL scripts are provided for this purpose, test_employees_sha.sql and test_employees_md5.sql. To run the tests, use mysql:

	+	+	xpected	 l_crc	
table_name	expected_record	15 62	11500000		
employees departments	+30002 30002	!		 9914d8fd41db7e45c2168e7 a0e35ca6649df897b958345	
dept_manager	_	!		5f93ca8847388a42a6d8d93	
dept_emp	33160			509d032d6b1b34748421e91	
titles	44330	!		16b88f07e69b9e36675b606	
salaries 	284404 +	47 b:	5a1785c	:27d75e33a4173aaa22ccf4 	11ebd7d4a9f
table_name	+ found_records	+ fo	 ound_cr	 re	
employees departments	+30002	!		9914d8fd41db7e45c2168e7 a0e35ca6649df897b958345	
dept_manager	 	1 !		5f93ca8847388a42a6d8d93	
dept_emp	33160	!-		509d032d6b1b34748421e91	
titles	44330	!		16b88f07e69b9e36675b606	
salaries	284404	47 b	5a1785c	c27d75e33a4173aaa22ccf4	llebd7d4a9f
	+	+		 •	
table_name	records_match	 crc_r	match	-	
employees	OK	ok	İ		
departments	OK	ok			
dept_manager	OK	ok			
dept_emp	OK	ok			
titles	OK	ok			
salaries 	OK +	ok +	+		
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real 0m33.453s user 0m0.007s sys 0m0.009s

5 Employees Structure

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



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