# **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 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   ++
+
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

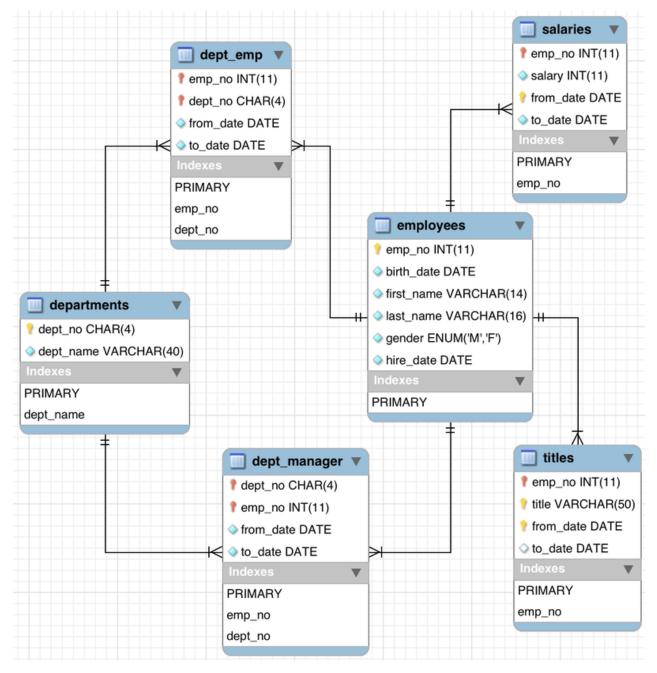
You can validate the Employee data using two methods, md5 and sha. Two SQL scripts are provided for this purpose, test\_employees\_sha.sql and test\_employees\_md5.sql. To run the tests, use mysql:

INFO					
TESTING INSTA	LLATION   +				
table_name	++   expected_records		expected_crc		
employees	++   300024		+		
departments	9		4b315afa0e35ca6649df897b958345bcb3d2b764		
dept_manager	24		9687a7d6f93ca8847388a42a6d8d93982a841c6c		
dept_emp	331603		f16f6ce609d032d6b1b34748421e9195c5083da8		
titles	443308		d12d5f746b88f07e69b9e36675b6067abb01b60e		
salaries	2844047   ++		b5a1785c27d75e33a4173aaa22ccf41ebd7d4a9f		
table_name	++   found_records		+   found_crc		
employees	++ 300024		4d4aa689914d8fd41db7e45c2168e7dcb9697359		
departments	9		4b315afa0e35ca6649df897b958345bcb3d2b764		
_ dept_manager	24		9687a7d6f93ca8847388a42a6d8d93982a841c6c		
dept_emp	331603		f16f6ce609d032d6b1b34748421e9195c5083da8		
titles	443308		d12d5f746b88f07e69b9e36675b6067abb01b60e		
salaries	2844047		b5a1785c27d75e33a4173aaa22ccf41ebd7d4a9f		
table name	+   records_match	+   cr	+ rc match		
	+	+	+		
employees	OK	ok			
departments	ОК	ok			
dept_manager	OK	ok	:		
dept_emp	OK	ok	:		
titles	OK	ok			
salaries	OK	ok	:		

INFO	+			
TESTING INSTAL	+ LLATION   +			
table_name	+   expected_record	+ 1s	expected_crc	
employees departments dept_manager dept_emp titles salaries	30002   2   3316(   4433(   28440)	9   24   03   08	4ec56ab5ba37218d187cf6ab09ce1aa1 d1af5e170d2d1591d776d5638d71fc5f 8720e2f0853ac9096b689c14664f847e c2c4fc7f0506e50959a6c67ad55cac31 bfa016c472df68e70a03facafalbc0a8 fd220654e95aealb169624ffe3fca934	
table_name	+   found_records		found_crc	
employees departments dept_manager dept_emp titles salaries			<pre>4ec56ab5ba37218d187cf6ab09ce1aa1     d1af5e170d2d1591d776d5638d71fc5f     8720e2f0853ac9096b689c14664f847e     c2c4fc7f0506e50959a6c67ad55cac31     bfa016c472df68e70a03facafa1bc0a8     fd220654e95aea1b169624ffe3fca934</pre>	
table_name	+   records_match	+ +   cr	+ cc_match	
employees departments dept_manager dept_emp titles salaries	OK   OK   OK   OK   OK   OK	+   ok   ok   ok   ok   ok	- 2 2 2 2 2 2 2 2	

# **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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