# **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:

```
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:

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".

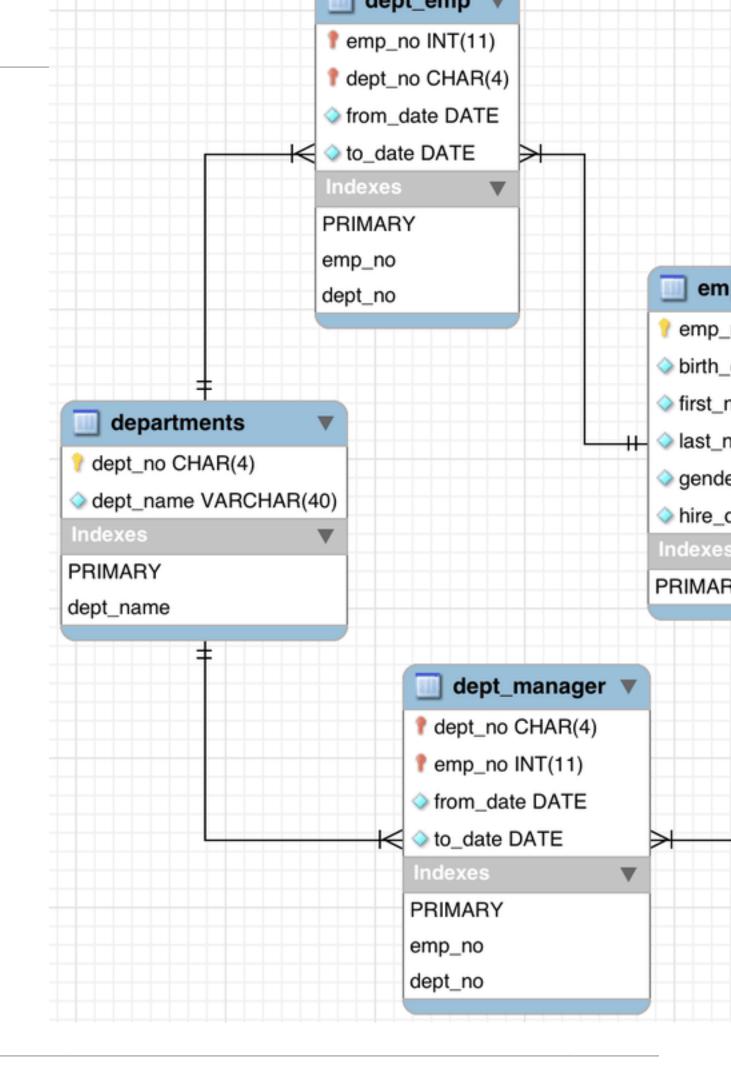
# 4 Validating the Employee Data

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:

```
dept_manager
                                  24 | 9687a7d6f93ca8847388a42a6d8d93982a841c6c
                             331603 | f16f6ce609d032d6b1b34748421e9195c5083da8
  dept_emp
                             443308 d12d5f746b88f07e69b9e36675b6067abb01b60e
  titles
                            2844047 | b5a1785c27d75e33a4173aaa22ccf41ebd7d4a9f
  salaries
  table_name | found_records | found_crc
  employees
                      300024 | 4d4aa689914d8fd41db7e45c2168e7dcb9697359
                        9 | 4b315afaUe35caoo±30107725555
24 | 9687a7d6f93ca8847388a42a6d8d93982a841c6c
  departments
  dept_manager |
  dept_emp
                           331603 | f16f6ce609d032d6b1b34748421e9195c5083da8
                           443308 | d12d5f746b88f07e69b9e36675b6067abb01b60e
2844047 | b5a1785c27d75e33a4173aaa22ccf41ebd7d4a9f
  titles
  salaries
  table_name | records_match | crc_match
  employees OK
  departments | OK dept_manager | OK
                                  ok
                                  ok
 dept_emp | OK
titles | OK
salaries | OK
                                  ok
                                  ok
                                  ok
real 0m37.067s
user 0m0.007s
sys 0m0.009s
shell>time mysql -t < test_employees_md5.sql
INFO
| TESTING INSTALLATION |
  table_name | expected_records | expected_crc
  employees | 300024 | 4ec56ab5ba37218d187cf6ab09ce1aa1
                           9 | dlaf5e170d2d1591d776d5638d71fc5f
  departments
  dept_manager | dept_emp |
                                 24 | 8720e2f0853ac9096b689c14664f847e
                           331603 | c2c4fc7f0506e50959a6c67ad55cac31
                           443308 | bfa016c472df68e70a03facafa1bc0a8
2844047 | fd220654e95aea1b169624ffe3fca934
  titles
  salaries
  table_name | found_records | found_crc
                         300024 | 4ec56ab5ba37218d187cf6ab09ce1aa1
9 | d1af5e170d2d1591d776d5638d71fc5f
24 | 8720e2f0853ac9096b689c14664f847e
  employees
  departments
  dept_manager |
                           331603 | c2c4fc7f0506e50959a6c67ad55cac31
 dept_emp
                             443308 | bfa016c472df68e70a03facafa1bc0a8
  titles
                           2844047 | fd220654e95aea1b169624ffe3fca934
  salaries
  table_name | records_match | crc_match |
  employees | OK
                                  ok
  departments | OK dept_manager | OK
                                  ok
                                  ok
 dept_emp | OK
titles | OK
salaries | OK
                                  l ok
                                  ok
                                  ok
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.



# **6 License for the Employees Database**

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