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 |

LOADING departments |

INFO

LOADING employees |

INFO

LOADING dept_emp |

LOADING dept_manager |

INFO

LOADING dept_manager |

INFO

LOADING titles |

INFO

LOADING sslaries |
```

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

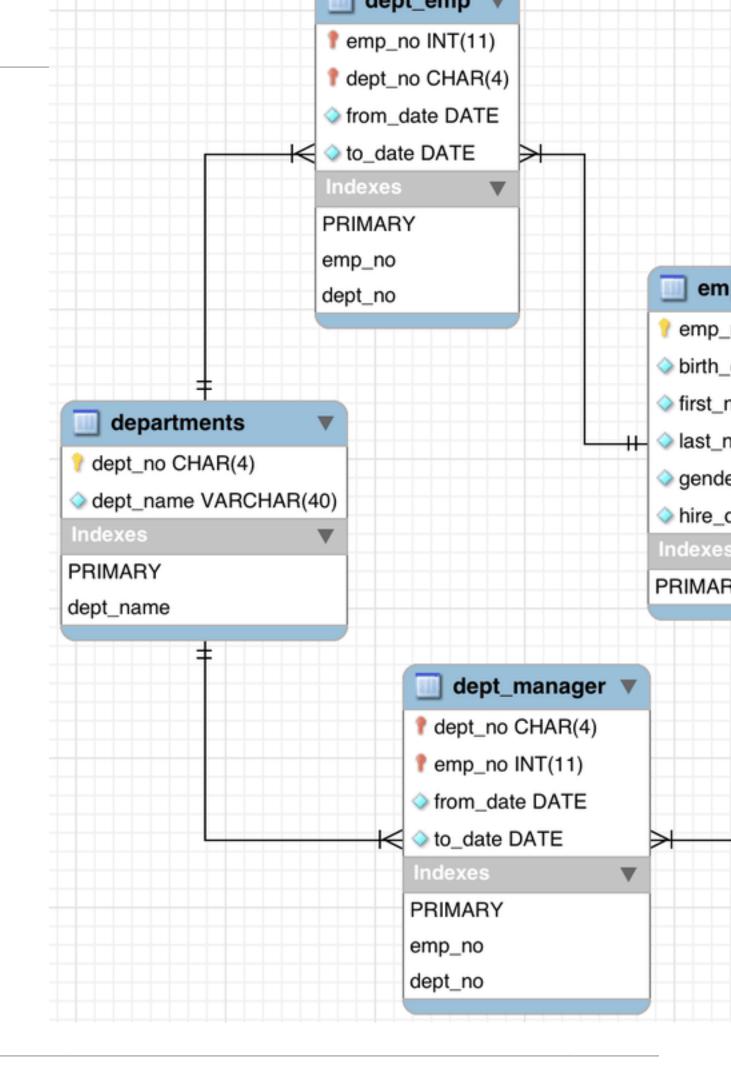
You can validate the Employee data using two methods, md5 and sha. Two SQL scripts are provided for this purpose, test_employees_sha.sql and test_employees_md5.sql. To run the tests, use mysql:

table_name			
	expected_record	ds expecte	d_crc
employees departments dept_manager dept_emp titles salaries	30002 2 33160 44330 284404	9 4b315af 24 9687a7d 03 f16f6ce 08 d12d5f7	9914d8fd41db7e45c2168e7dcb9697 a0e35ca6649df897b958345bcb3d2k 6f93ca8847388a42a6d8d93982a841 609d032d6b1b34748421e9195c5083 46b88f07e69b9e36675b6067abb01k c27d75e33a4173aaa22ccf41ebd7d4
	+	+	
table_name	found_records 	found_c	rc
employees departments dept_manager dept_emp titles salaries	30002 22 33160 44330 284404	9 4b315af 24 9687a7d 03 f16f6ce 08 d12d5f7	9914d8fd41db7e45c2168e7dcb9697 a0e35ca6649df897b958345bcb3d2k 6f93ca8847388a42a6d8d93982a841 609d032d6b1b34748421e9195c5083 46b88f07e69b9e36675b6067abb01k c27d75e33a4173aaa22ccf41ebd7d4
+-hlo nomo	++ records_match		+
employees departments dept_manager dept_emp titles salaries	records_match OK	crc_match ok ok ok ok ok ok ok	
INFO TESTING INSTA	 + LLATION +		
table_name	+ expected_record	ds expecte	d_crc
employees departments	+ 30002		5ba37218d187cf6ab09ce1aa1 70d2d1591d776d5638d71fc5f
dept_manager dept_emp titles salaries	2 33160 44330 284404	24 8720e2f 03 c2c4fc7 08 bfa016c	0853ac9096b689c14664f847e f0506e50959a6c67ad55cac31 472df68e70a03facafa1bc0a8 4e95aea1b169624ffe3fca934
dept_emp titles	33160 44330	24 8720e2f 03 c2c4fc7 08 bfa016c	0853ac9096b689c14664f847e f0506e50959a6c67ad55cac31 472df68e70a03facafa1bc0a8 4e95aea1b169624ffe3fca934
dept_emp titles salaries	33160 44330 284404 +	24 8720e2f 03 c2c4fc7 08 bfa016c 17 fd22065 	0853ac9096b689c14664f847e f0506e50959a6c67ad55cac31 472df68e70a03facafa1bc0a8 4e95aea1b169624ffe3fca934
dept_emp titles salaries table_name employees departments dept_manager dept_emp titles	33160 44330 284404 	24 8720e2f 03 c2c4fc7 08 bfa016c 17 fd22065 	0853ac9096b689c14664f847e f0506e50959a6c67ad55cac31 472df68e70a03facafa1bc0a8 4e95aea1b169624ffe3fca934

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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