Employees Sample Database

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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 Launchpad. You can download a prepackaged archive of the data, or access the information through Bazaar.

To use the archive package, download the archive and unpack it:

```
shell> tar -xjf $HOME/Downloads/employees_db-full-1.0.6.tar.bz2
shell> cd employees_db/
```

The Employees database is compatible with several different storage engines, with the InnoDB engine enabled by default. Edit the <code>employee.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:

```
shell>time mysql -t < test_employees_sha.sql
INFO
 | TESTING INSTALLATION |
   table_name | expected_records | expected_crc

        employees
        300024
        4d4aa689914d8fd41db7e45c2168e7dcb9697359

        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 | crc_match |

        employees
        OK
        ok

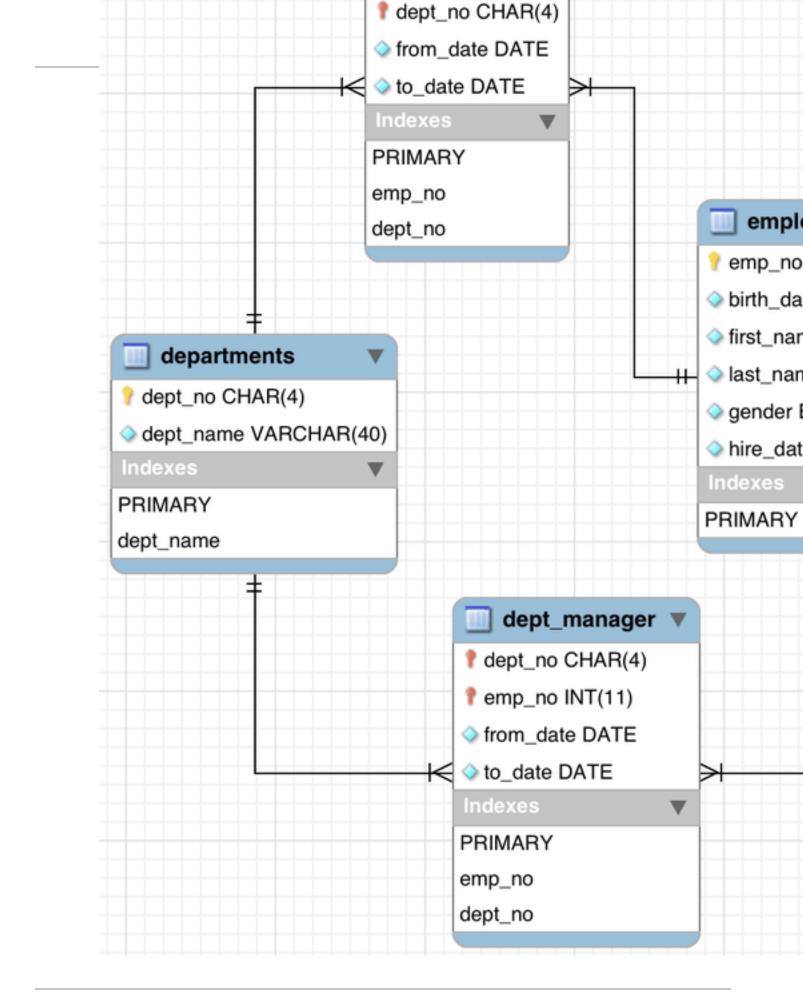
        departments
        OK
        ok

        dept_manager
        OK
        ok

                                                                    ok
ok
ok
   dept_emp | OK
titles | OK
salaries | OK
real 0m37.067s
user 0m0.007s
sys 0m0.009s
shell>time mysql -t < test_employees_md5.sql</pre>
 | TESTING INSTALLATION |
   table_name | expected_records | expected_crc
```

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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