

Labs

During the Red Hat exams, the tasks will be presented electronically. Therefore, this book presents most of the labs electronically as well. For more information, see the “Lab Questions” section toward the end of Chapter 17.

It is best to start these labs with a fresh MariaDB installation. If you want to delete your existing MariaDB installation and start again, run the following commands:

```
# yum erase mariadb-server
# rm -rf /var/lib/mysql/*
# rm -f /etc/my.cnf
```

Lab 1

Install MariaDB on server1.example.com. Set the root password to “letmein” and allow root access via local sockets and TCP connections from all hosts. Ensure that the MariaDB service starts automatically at boot. Test connectivity from a remote machine.

Lab 2

Copy the employees database file to the local drive. This file is located in the Chapter17/ directory of the DVD that accompanies this book. Import the contents of the database in MariaDB with the following commands:

```
# tar xvfj employees_db-full-1.0.6.tar.bz2
# cd employees_db
# cat employees.sql | mysql -u root -p employees
```

Create a new user labuser with password changeme. Give the new user read-only access from all hosts to all tables on the employees database, with the exclusion of the salaries table.

Lab 3

Using the employees database imported in Lab 2, execute SELECT queries to answer the following questions:

1. How many employees were born on the 31st of October 1963?
2. How many female employees were born on the 20th of October 1963?
3. On which date was the youngest employee born?

4. What is the job title and salary of Eran Fiebach?

Lab 4

Insert into the employees database the following information for a new employee:

1. The new employee is Julia Chan, born on the 9th of June 1990. She was hired on the 1st of June 2015 and assigned an employee number of 500,000.
2. Her job title is Senior Engineer and she works in the Development department.
3. Her salary is \$60,000.

Lab 5

Backup the entire contents (structure and data) of the employees table from the employees database. Save the result into a compressed file named emp.sql.gz in the /root directory.

As the MariaDB root user, create a new database emp_restored and import the backup into this database.

Verify that the number of employees born on the 31st of October 1963 is the same as found in Lab 3.