# Report Labwork I

Prepare for Labwork:

(1) Clone employees database from Github

(2) Create Fork from Github repository

(3) Install Mysql

## Step 1: Import the Database

Command: `mysql −uroot < employees.sql`

Output:



## Step 2: Run md5 check

Command: `mysql −uroot < test_employees_md5.sql`

Output:

```
[longdd@Longs-MacBook-Pro:~/Documents/Information System/1/test_db$ mysql -uroot -t < test_employees_md5.sql
+--------------------+
| INFO               |
+--------------------+
| TESTING INSTALLATION |
+--------------------+
+--------------+-----------------+----------------------------------+
| table_name   | expected_records | expected_crc                     |
+--------------+-----------------+----------------------------------+
| employees    |          300024 | 4ec56ab5ba37218d187cf6ab09ce1aa1 |
| departments  |               9 | d1af5e170d2d1591d776d5638d71fc5f |
| dept_manager |              24 | 8720e2f0853ac9096b689c14664f847e |
| dept_emp     |          331603 | ccf6fe516f990bdaa49713fc478701b7 |
| titles       |          443308 | bfa016c472df68e70a03facafa1bc0a8 |
| salaries     |         2844047 | fd220654e95aea1b169624ffe3fca934 |
+--------------+-----------------+----------------------------------+
+--------------+-----------------+----------------------------------+
| table_name   | found_records   | found_crc                        |
+--------------+-----------------+----------------------------------+
| employees    |          300024 | 4ec56ab5ba37218d187cf6ab09ce1aa1 |
| departments  |               9 | d1af5e170d2d1591d776d5638d71fc5f |
| dept_manager |              24 | 8720e2f0853ac9096b689c14664f847e |
| dept_emp     |          331603 | ccf6fe516f990bdaa49713fc478701b7 |
| titles       |          443308 | bfa016c472df68e70a03facafa1bc0a8 |
| salaries     |         2844047 | fd220654e95aea1b169624ffe3fca934 |
+--------------+-----------------+----------------------------------+
+--------------+----------------+-----------+
| table_name   | records_match  | crc_match |
+--------------+----------------+-----------+
| employees    | OK             | ok        |
| departments  | OK             | ok        |
| dept_manager | OK             | ok        |
| dept_emp     | OK             | ok        |
| titles       | OK             | ok        |
| salaries     | OK             | ok        |
+--------------+----------------+-----------+
+------------------+
| computation_time |
+------------------+
| 00:00:13         |
+------------------+
+---------+--------+
| summary | result |
+---------+--------+
| CRC     | OK     |
| count   | OK     |
+---------+--------+
```

## Step 3: Run SHA check

Command: `mysql −uroot < test_employees_sha.sql`

Output:

```
llongdd@Longs-MacBook-Pro:~/Documents/Information System/1/test_db$ mysql -uroot -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 | d95ab9fe07df0865f592574b3b33b9c741d9fd1b |
| 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 | d95ab9fe07df0865f592574b3b33b9c741d9fd1b |
| titles       |          443308 | d12d5f746b88f07e69b9e36675b6067abb01b60e |
| salaries     |         2844047 | b5a1785c27d75e33a4173aaa22ccf41ebd7d4a9f |
+--------------+-----------------+------------------------------------------+

+--------------+---------------+-----------+
| table_name   | records_match | crc_match |
+--------------+---------------+-----------+
| employees    | OK            | ok        |
| departments  | OK            | ok        |
| dept_manager | OK            | ok        |
| dept_emp     | OK            | ok        |
| titles       | OK            | ok        |
| salaries     | OK            | ok        |
+--------------+---------------+-----------+

+------------------+
| computation_time |
+------------------+
| 00:00:14         |
+------------------+

+---------+--------+
| summary | result |
+---------+--------+
| CRC     | OK     |
| count   | OK     |
+---------+--------+
```