Information Systems: Labwork 1

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Labwork 1

Install MySQL

Command:

```
1 brew install mysql
```

Output:

```
1 ==> Installing mysql
2 ==> Downloading http://downloads.mysql.com/archives/mysql-5.7/mysql-5.7.20.tar.gz
3 ############################################################################### 100.0%
4 ==> Patching
5
6 ...
7
8 ==> Summary
9 /usr/local/Cellar/mysql/5.7.20: 6336 files, 221M, built in 5.6 minutes
```

Clone employees database from Github

Command:

```
1 git clone https://github.com/datacharmer/test_db
```

Output:

```
1 Cloning into 'test_db'...
2 remote: Counting objects: 94, done.
3 remote: Total 94 (delta 0), reused 0 (delta 0), pack-reused 94
4 Unpacking objects: 100% (94/94), done.
5 Checking connectivity... done.
```

Install the database

Command:

```
1 mysql < employees_partitioned.sql
```

Output:

```
1 INFO
2 CREATING DATABASE STRUCTURE
3 INFO
4 storage engine: InnoDB
5 INFO
6 LOADING departments
7 INFO
8 LOADING employees
9 INFO
10 LOADING dept_emp
11 INFO
12 LOADING dept_manager
13 INFO
14 LOADING titles
15 INFO
16 LOADING salaries
17 data_load_time_diff
18 00:00:38
```

Test the database

Command:

```
1  mysql −t < test_employees_md5.sql
```

Output:

```
1  +-----------------------+
2  | INFO                  |
3  +-----------------------+
4  | TESTING  INSTALLATION |
5  +-----------------------+
6  +--------------+-------------------+----------------------------------+
7  | table_name   | expected_records  | expected_crc                     |
8  +--------------+-------------------+----------------------------------+
9  | employees    |            300024 | 4ec56ab5ba37218d187cf6ab09ce1aa1 |
10 | departments  |                 9 | d1af5e170d2d1591d776d5638d71fc5f |
11 | dept_manager |                24 | 8720e2f0853ac9096b689c14664f847e |
12 | dept_emp     |            331603 | ccf6fe516f990bdaa49713fc478701b7 |
13 | titles       |            443308 | bfa016c472df68e70a03facafa1bc0a8 |
14 | salaries     |           2844047 | fd220654e95aea1b169624ffe3fca934 |
15 +--------------+-------------------+----------------------------------+
16 +--------------+-------------------+----------------------------------+
17 | table_name   | found_records     | found_crc                        |
18 +--------------+-------------------+----------------------------------+
19 | employees    |            300024 | 4ec56ab5ba37218d187cf6ab09ce1aa1 |
20 | departments  |                 9 | d1af5e170d2d1591d776d5638d71fc5f |
21 | dept_manager |                24 | 8720e2f0853ac9096b689c14664f847e |
22 | dept_emp     |            331603 | ccf6fe516f990bdaa49713fc478701b7 |
23 | titles       |            443308 | bfa016c472df68e70a03facafa1bc0a8 |
24 | salaries     |           2844047 | fd220654e95aea1b169624ffe3fca934 |
25 +--------------+-------------------+----------------------------------+
26 +--------------+----------------+------------+
27 | table_name   | records_match  | crc_match  |
28 +--------------+----------------+------------+
29 | employees    | OK             | ok         |
30 | departments  | OK             | ok         |
31 | dept_manager | OK             | ok         |
32 | dept_emp     | OK             | ok         |
33 | titles       | OK             | ok         |
34 | salaries     | OK             | ok         |
35 +--------------+----------------+------------+
36 +------------------+
37 | computation_time |
38 +------------------+
39 | 00:00:09         |
40 +------------------+
41 +----------+--------+
42 | summary  | result |
43 +----------+--------+
44 | CRC      | OK     |
45 | count    | OK     |
46 +----------+--------+
```