

Worksheet P9 Master & Slave Replication

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Master Part (Ali_2215016135)

Langkah edit my.ini pc master

```

1  [client]
2  #password=your_password
3  port=3306
4  socket=/tmp/mysql.sock
5
6  [mysqld]
7  server-id=13
8  log-bin="D:\alienz\p9log"
9  port=3306
10 socket=/tmp/mysql.sock
11 key_buffer_size=256M
12 max_allowed_packet=512M
13 table_open_cache=256
14 sort_buffer_size=1M
15 read_buffer_size=1M
16 read_rnd_buffer_size=4M
17 myisam_sort_buffer_size=64M
18 thread_cache_size=8
19
20 secure-file-priv=""
21 explicit_defaults_for_timestamp=1
22 datadir="C:/laragon/data/mysql-8"
23 default_authentication_plugin=mysql_native_password
24
25
26 [mysqldump]
27 quick
28 max_allowed_packet=512M
29

```

MS ini file length : 540 lines : 29 Ln : 8 Col : 25 Sel : 0 | 0 Windows (CR LF) ANSI INS

Tambahkan path untuk menyimpan log

Langkah pembuatan akun dan set privileges untuk user slave

```

mysql> create user 'pancigerhana'@'10.1.32.197' identified by 'takutvaksin';
Query OK, 0 rows affected (0.07 sec)

mysql> grant replication slave on *.* to 'pancigerhana'@'10.1.32.197';
Query OK, 0 rows affected (0.02 sec)

```

Buat akun untuk rekan praktikum dan berikan akses slave kepada akun yang baru dibuat untuk rekan praktikum tersebut

Langkah binary log

```
mysql> show binary logs;
+-----+-----+-----+
| Log_name | File_size | Encrypted |
+-----+-----+-----+
| p9log.000001 | 2259 | No |
+-----+-----+-----+
1 row in set (0.00 sec)
```

Gunakan query show binary logs untuk menampilkan informasi dari log

Langkah check master status

```
mysql> show master status;
+-----+-----+-----+-----+-----+
| File | Position | Binlog_Do_DB | Binlog_Ignore_DB | Executed_Gtid_Set |
+-----+-----+-----+-----+-----+
| p9log.000001 | 2259 | | | |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Gunakan query show master status untuk mengecek status master. Disitu tertera bahwa log master berada di posisi 2259

Slave Part (Zauro_2215016134)

Langkah edit my.ini pada pc slave

Penjelasan

Langkah change master to

```
mysql> change master to
-> master_host='10.1.32.128',
-> master_user='pancigenhaha',
-> master_password='takutvaksin',
-> master_log_file='mysql-bin.000001',
-> master_log_pos=2259;
Query OK, 0 rows affected, 7 warnings (0.04 sec)
```

Ganti master pada pc dengan menggunakan host ip komputer rekan praktikum. Masukkan user yang sudah dibuatkan oleh rekan praktikum dan masukkan lokasi dari log rekan praktikum.

Langkah start slave dan slave status

```
mysql> start slave;
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql> show slave status \g;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Slave_IO_State | Master_Host | Master_User | Master_Port | Connect_Retry | Master_Log_File | Read_Master_Log_Pos | Relay_Log_File | Relay_Log_Pos | |
| Relay_Master_Log_File | Slave_IO_Running | Slave_SQL_Running | Replicate_Do_DB | Replicate_Ignore_DB | Replicate_Do_Table | Replicate_Ignore_Table | Replicate_Wild_Do_Table | Replicate_Wild_Ignore_Table |
| Last_Errno | Last_Error | Skip_Counter | Exec_Master_Log_Pos | Relay_Log_Space | Until_Condition | Until_Log_File | Until_Log_Pos | Master_SSL_Allowed |
| Master_SSL_CA_File | Master_SSL_CA_Path | Master_SSL_Cert | Master_SSL_Cipher | Master_SSL_Key | Seconds_Behind_Master | Master_SSL_Verify_Server_Cert | Last_IO_Errno | Last_IO_Error |
| Last_SQL_Errno | Last_SQL_Error | Replicate_Ignore_Server_Ids | Master_Server_Id | Master_UUID | Master_Info_File | SQL_Delay | SQL_Remaining_Delay | Slave_SQL_Running_State |
| Master_Retry_Count | Master_Bind | Last_IO_Error_Timestamp | Last_SQL_Error_Timestamp | Master_SSL_Crl | Master_SSL_Crlpath | Retrieved_Gtid_Set | Executed_Gtid_Set | Auto_Position | Replicate_Rewrite_DB |
| Channel_Name | Master_TLS_Version | Master_public_key_path | Get_master_public_key | Network_Namespace |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| mysql-bin.000001 | 10.1.32.128 | pancigerhana | 3306 | 60 | mysql-bin.000001 | 2259 | DESKTOP-TV5JK92-relay-bin.000001 | 4 |
| No | Yes | 0 | 0 | 2259 | 157 | None | NULL | No |
| 13114 | Got fatal error 1236 from master when reading data from binary log: 'could not find first log file name in binary log index file' | 13 | 95ded02a-2798-11ef-90b0-b42e990f8a72 | mysql.slave_master_info | 0 |
| NULL | Replica has read all relay log; waiting for more updates | 86400 | 240611 10:06:24 |
| 0 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

Gunakan query start slave untuk melakukan start slave yang baru saja dibuat

Testing Replication Part (jelasin sebisanya)

Jelaskan dan buktikan replikasi data base dengan konsep master & slave telah berhasil berjalan.

[Screenshot]

punyaku gagal bwang

Dari semua langkah yang sudah dilakukan, buat kesimpulan terkait replikasi master & slave!

sebuah metode dalam sistem basis data untuk memastikan ketersediaan dan reliabilitas data melalui penyalinan data dari satu server utama (master) ke satu atau lebih server sekunder (slave).