

# 3

## Program-Program MySQL

# Jenis-Jenis Program MySQL

Setelah anda menginstalasi MySQL, ada beberapa program yang diinstall diantaranya adalah :

- Program MySQL Server
- Program MySQL Client
- Program Administrative dan Utility

Program-program ini ada di folder bin dari folder instalasi MySQL.

Misalnya : C:\Program Files\MySQL\MySQL Server <versi>\bin

# Program MySQL Server

Nama File : `mysqld.exe`

Kegunaan : Program utama server MySQL. Program ini mengatur akses ke direktori data MySQL yang berisi database dan tabel. Program ini harus aktif agar komputer dapat melayani layanan database.

File Sejenis : `mysqld-nt.exe`  
`mysqld-max.exe`  
`mysqld-max-nt.exe`

# Program MySQL Client

Program ini merupakan program-program yang digunakan untuk melakukan eksekusi query.

Ada 2 jenis program MySQL Client, yaitu :

1. MySQL Client Standar (Command Line)
2. MySQL Client Lain (umumnya GUI)

# MySQL Client Standar (Command-Line)

Nama File : `mysql.exe`

Kegunaan : Digunakan untuk melakukan operasi-operasi database.

Eksekusi : `mysql <opsi>`

Contoh : `mysql -h 192.168.0.1 -u root -P 3305 -p`

Buka mysql client dengan user root pada server yang berjalan di komputer ber-IP 192.168.0.1 di port (-P) 3305 dengan password ditanya kemudian.

Untuk opsi-opsi yang lain, baca di MySQL Reference Manual.

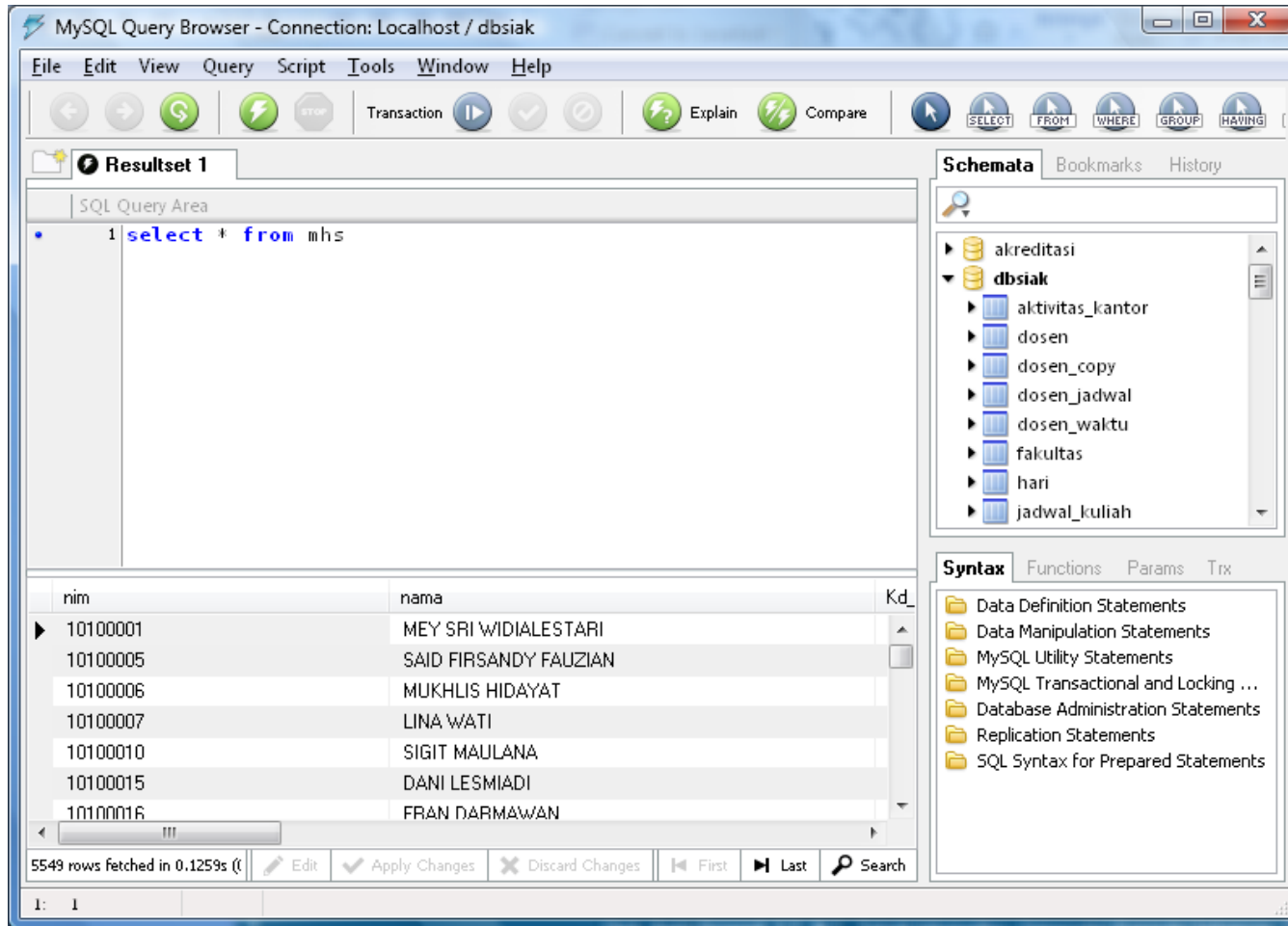
## MySQL Client Lain

Program MySQL lain sangat banyak tersedia, dari yang commercial atau yang Free.

Program-program tersebut diantaranya :

1. MySQL Query Browser (Sekarang MySQL Workbench)
2. SQLYog Enterprise & SQLYog Community
3. MySQL-Front

# MySQL Query Browser



The screenshot shows the MySQL Query Browser interface. The title bar indicates the connection is to 'localhost / dbsiak'. The menu bar includes File, Edit, View, Query, Script, Tools, Window, and Help. The toolbar contains various icons for navigation and execution. The main window is divided into several panes:

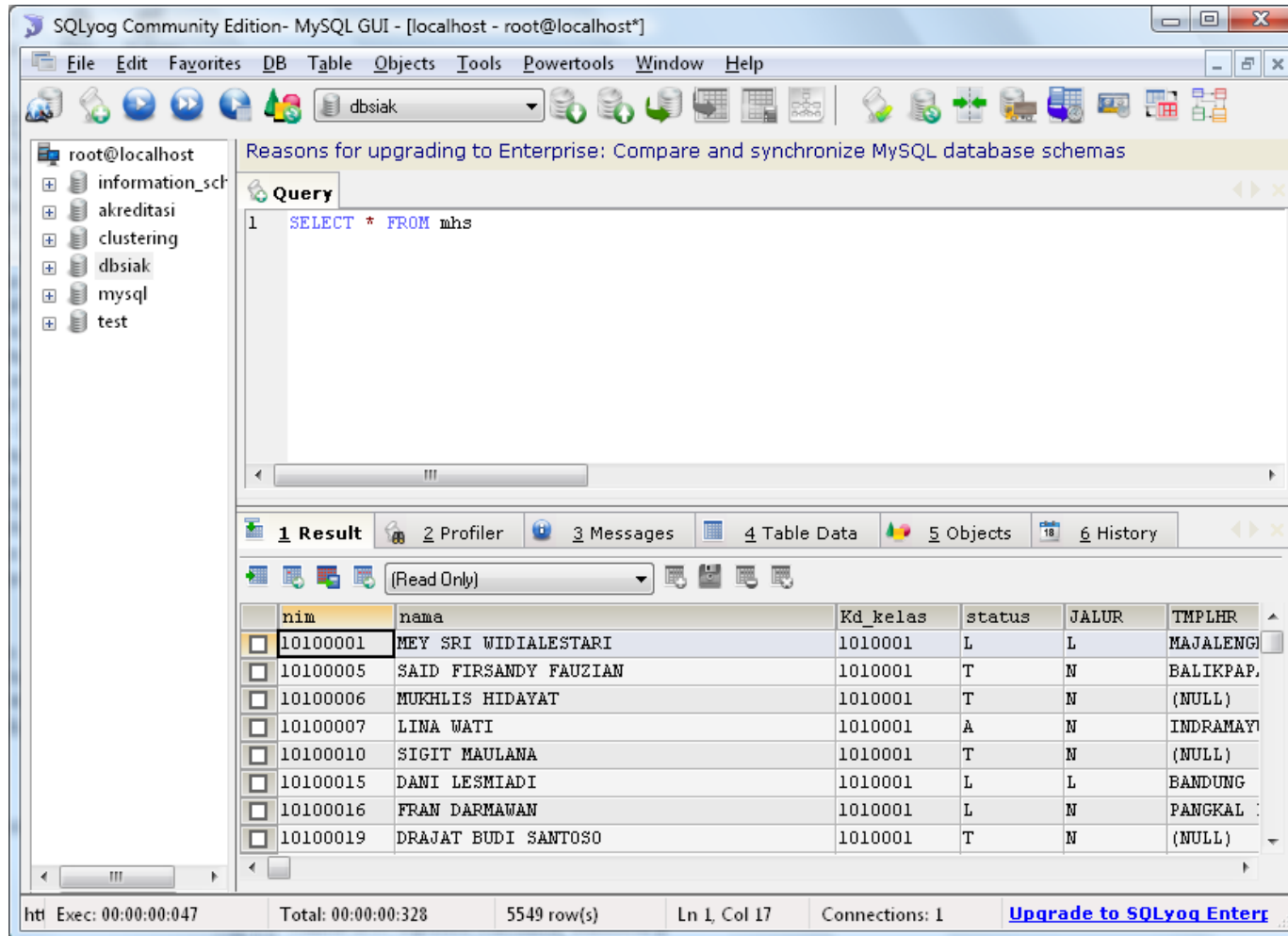
- SQL Query Area:** Contains the query: `select * from mhs`.
- Resultset 1:** Displays the query results in a table format.
- Schemata:** Shows a tree view of the database structure, including 'akreditasi' and 'dbsiak' (expanded to show tables like 'aktivitas\_kantor', 'dosen', etc.).
- Syntax:** Provides a list of SQL statement categories such as 'Data Definition Statements', 'Data Manipulation Statements', etc.

The result set table below shows the following data:

nim	nama	Kd.
10100001	MEY SRI WIDIALESTARI	
10100005	SAID FIRSANDY FAUZHAN	
10100006	MUKHLIS HIDAYAT	
10100007	LINA WATI	
10100010	SIGIT MAULANA	
10100015	DANI LESMIADI	
10100016	FRAN DARMAWAN	

At the bottom, a status bar indicates '5549 rows fetched in 0.1259s'. The status bar also includes buttons for 'Edit', 'Apply Changes', 'Discard Changes', 'First', 'Last', and 'Search'.

# SQLyog Community



SQLyog Community Edition - MySQL GUI - [localhost - root@localhost\*]

File Edit Favorites DB Table Objects Tools Powertools Window Help

Reasons for upgrading to Enterprise: Compare and synchronize MySQL database schemas

Query

```
1 SELECT * FROM mhs
```

1 Result 2 Profiler 3 Messages 4 Table Data 5 Objects 6 History

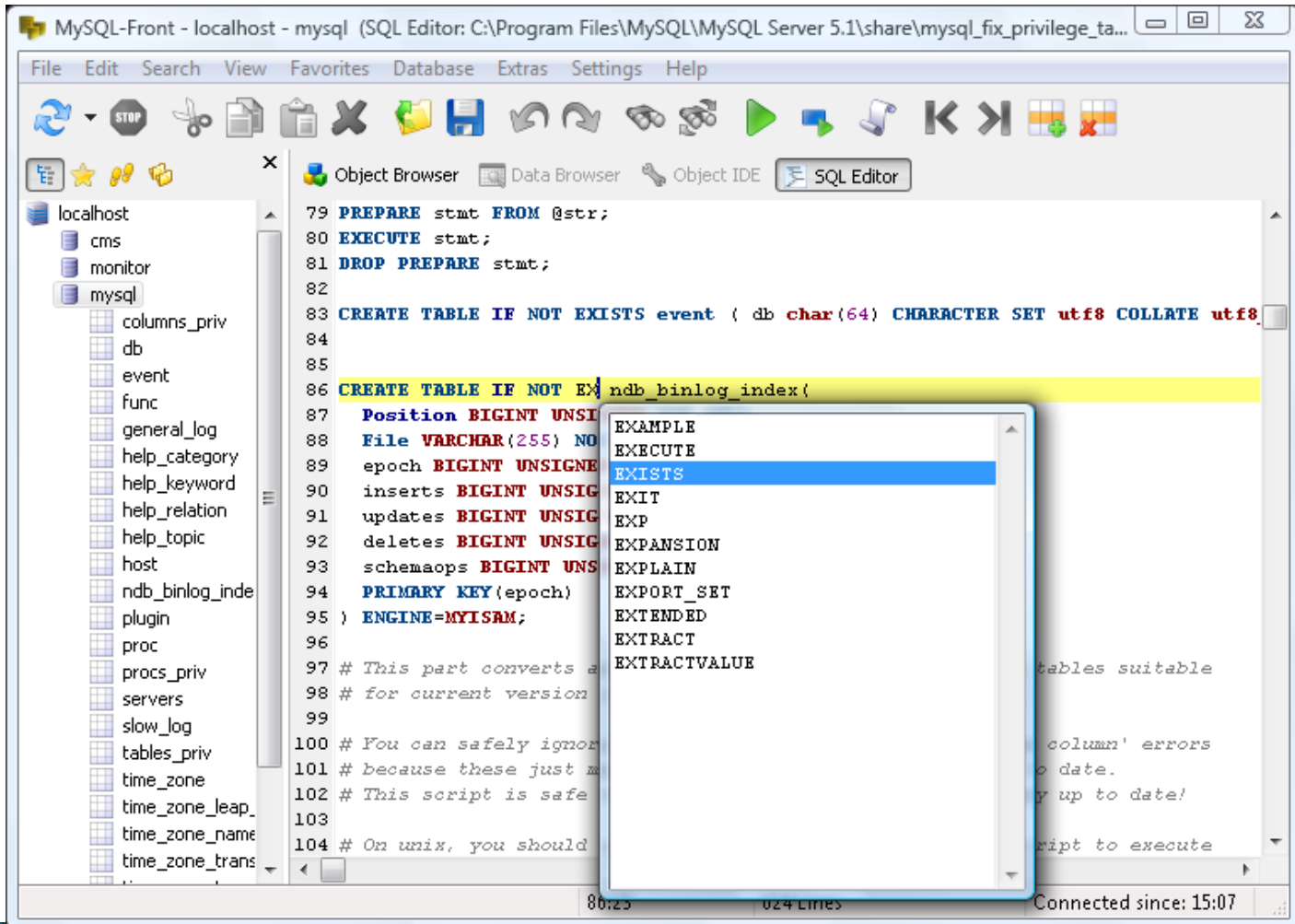
(Read Only)

nim	nama	Kd_kelas	status	JALUR	TMPLHR
10100001	MEY SRI WIDIALESTARI	1010001	L	L	MAJALENGI
10100005	SAID FIRSANDY FAUZIAN	1010001	T	N	BALIKPAP.
10100006	MUKHLIS HIDAYAT	1010001	T	N	(NULL)
10100007	LINA WATI	1010001	A	N	INDRAMAYI
10100010	SIGIT MAULANA	1010001	T	N	(NULL)
10100015	DANI LESMIADI	1010001	L	L	BANDUNG
10100016	FRAN DARMAWAN	1010001	L	N	PANGKAL
10100019	DRAJAT BUDI SANTOSO	1010001	T	N	(NULL)

htl Exec: 00:00:00:047 Total: 00:00:00:328 5549 row(s) Ln 1, Col 17 Connections: 1 [Upgrade to SQLyog Enterr](#)



## MySQL-Front



The screenshot shows the MySQL-Front interface with the following SQL code in the editor:

```

79 PREPARE stmt FROM @str;
80 EXECUTE stmt;
81 DROP PREPARE stmt;
82
83 CREATE TABLE IF NOT EXISTS event ( db char(64) CHARACTER SET utf8 COLLATE utf8
84
85
86 CREATE TABLE IF NOT EXISTS ndb_binlog_index(
87   Position BIGINT UNSIGNED
88   File VARCHAR(255) NOT NULL
89   epoch BIGINT UNSIGNED
90   inserts BIGINT UNSIGNED
91   updates BIGINT UNSIGNED
92   deletes BIGINT UNSIGNED
93   schemaops BIGINT UNSIGNED
94   PRIMARY KEY(epoch)
95 ) ENGINE=MYISAM;
96
97 # This part converts a
98 # for current version
99
100 # You can safely ignore
101 # because these just m
102 # This script is safe
103
104 # On unix, you should

```

A dropdown menu is open over the word "EXISTS" in line 86, showing a list of SQL keywords. The word "EXISTS" is highlighted in blue.

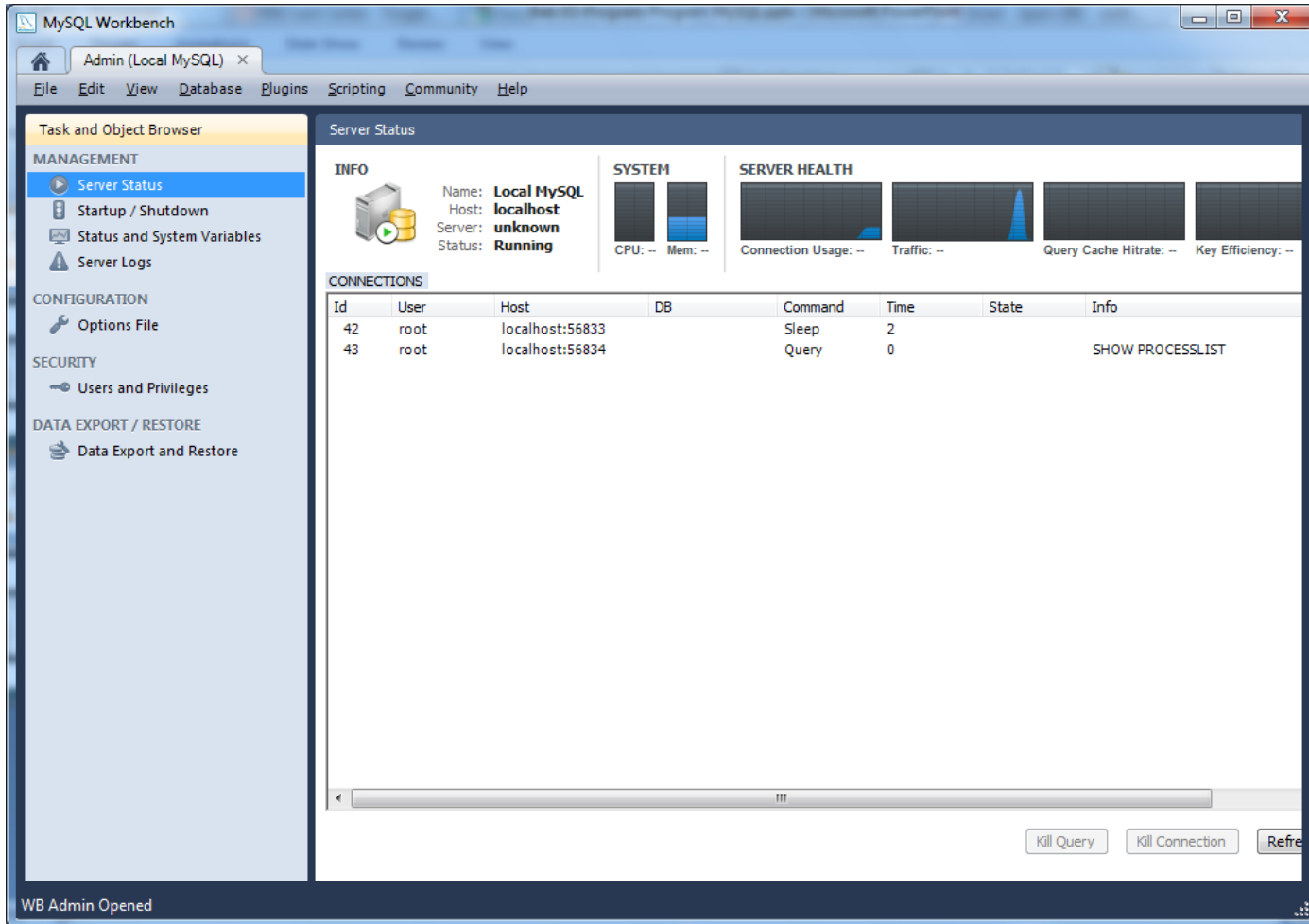
- EXAMPLE
- EXECUTE
- EXISTS
- EXIT
- EXP
- EXPANSION
- EXPLAIN
- EXPORT\_SET
- EXTENDED
- EXTRACT
- EXTRACTVALUE

The status bar at the bottom indicates "86:25" and "024 Lines". The connection status is "Connected since: 15:07".

# Program Administrative Dan Utility (Software Alternatif)

1. MySQL Workbench
  - Server Administration
  - SQL Development
  - Data Modelling
2. SQLyog Enterprise dan SQLyog Community

## Server Administration



The screenshot shows the MySQL Workbench Admin console for 'Local MySQL'. The interface includes a sidebar with navigation options and a main area displaying server information and active connections.

**Server Status**

**INFO**

- Name: Local MySQL
- Host: localhost
- Server: unknown
- Status: Running

**SYSTEM**

- CPU: --
- Mem: --

**SERVER HEALTH**

- Connection Usage: --
- Traffic: --
- Query Cache Hitrate: --
- Key Efficiency: --

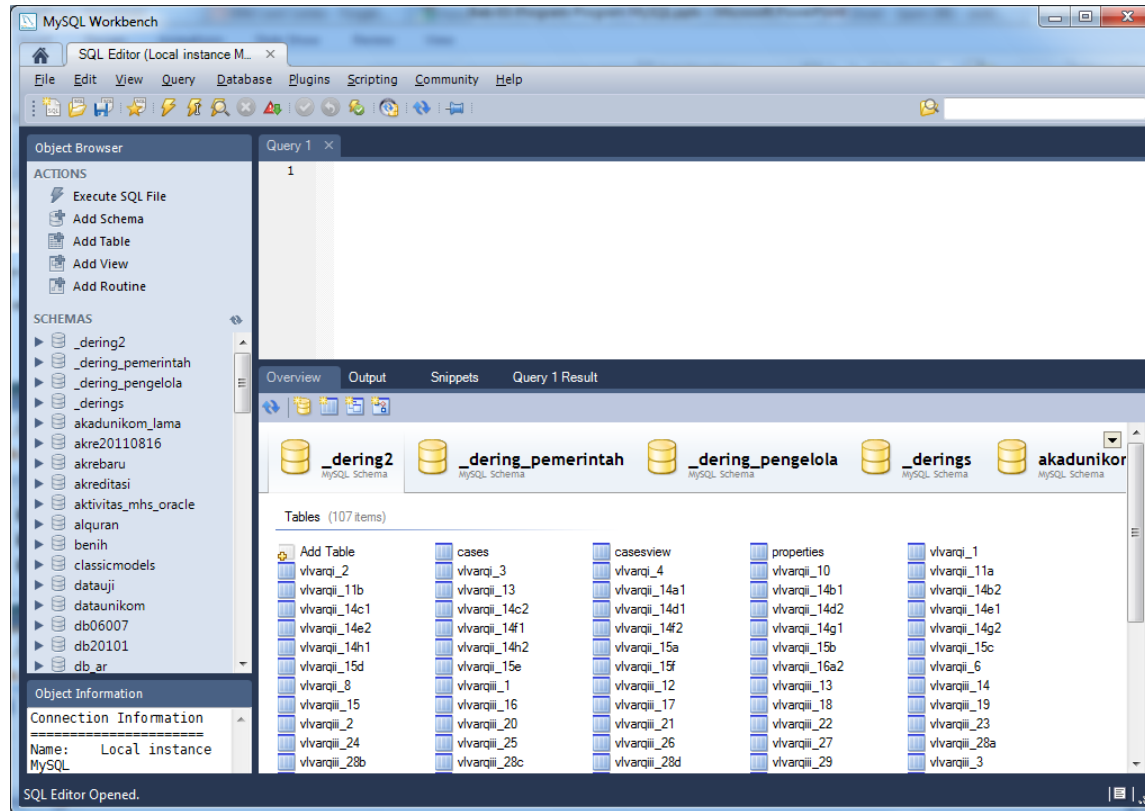
**CONNECTIONS**

Id	User	Host	DB	Command	Time	State	Info
42	root	localhost:56833		Sleep	2		
43	root	localhost:56834		Query	0		SHOW PROCESSLIST

Buttons at the bottom right: Kill Query, Kill Connection, Refre

WB Admin Opened

# SQL Development



## Data Modelling

