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MySQLをGUIで触ろう！！ ～MySQL Workbenchのご紹介～

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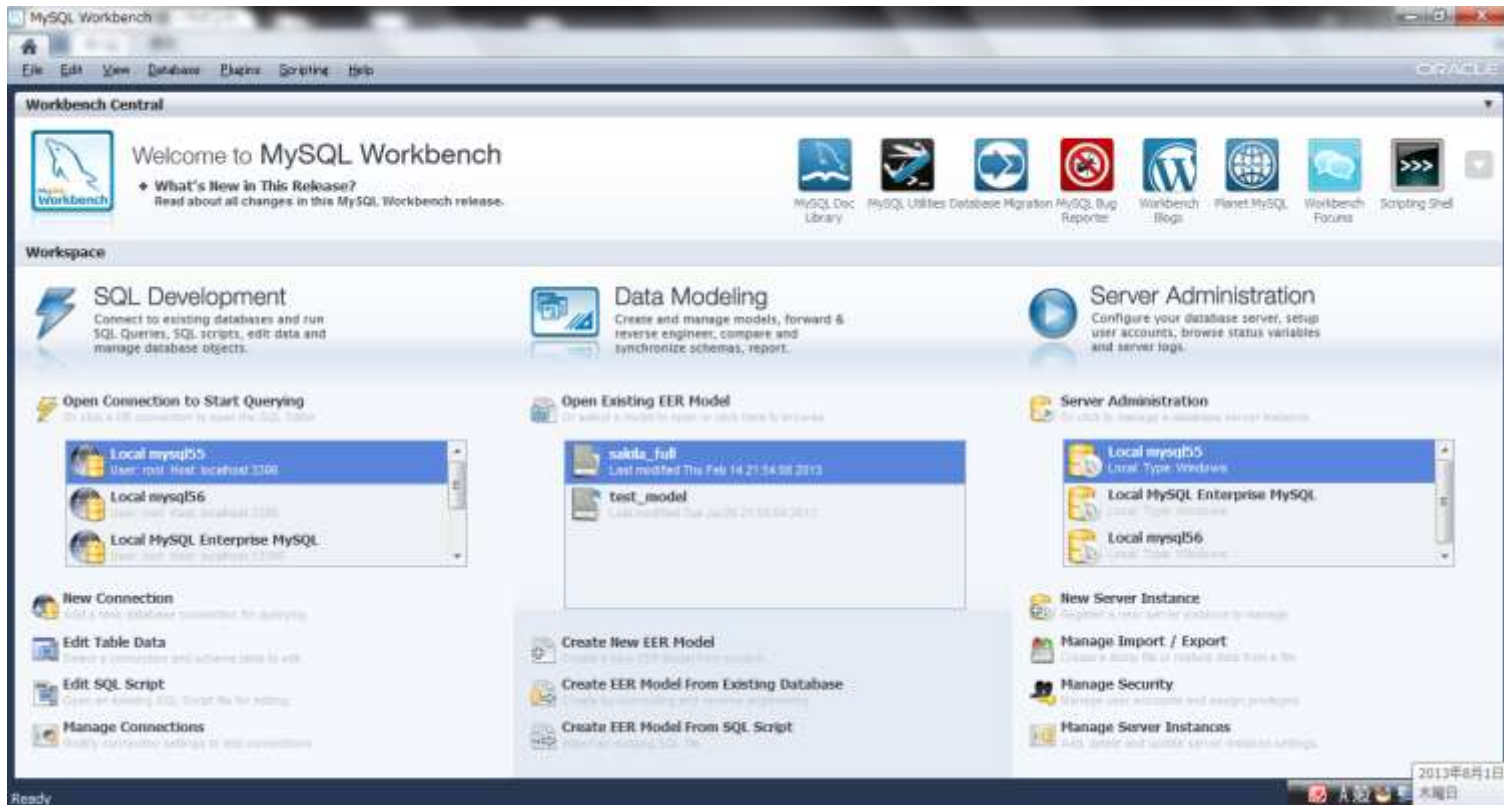
MySQL Workbenchで出来ること

- 管理
 - Server起動/停止、システム変数確認、ステータス変数確認、ログ確認、ユーザ管理、セッション管理、など
- 開発
 - SQLエディタ、SQL Snippets(ステートメント再利用)、ビジュアルExplain、など
- 設計
 - E-R図作成、フォワードエンジニアリング、リバーズエンジニアリング、など

MySQL Workbenchで出来ること

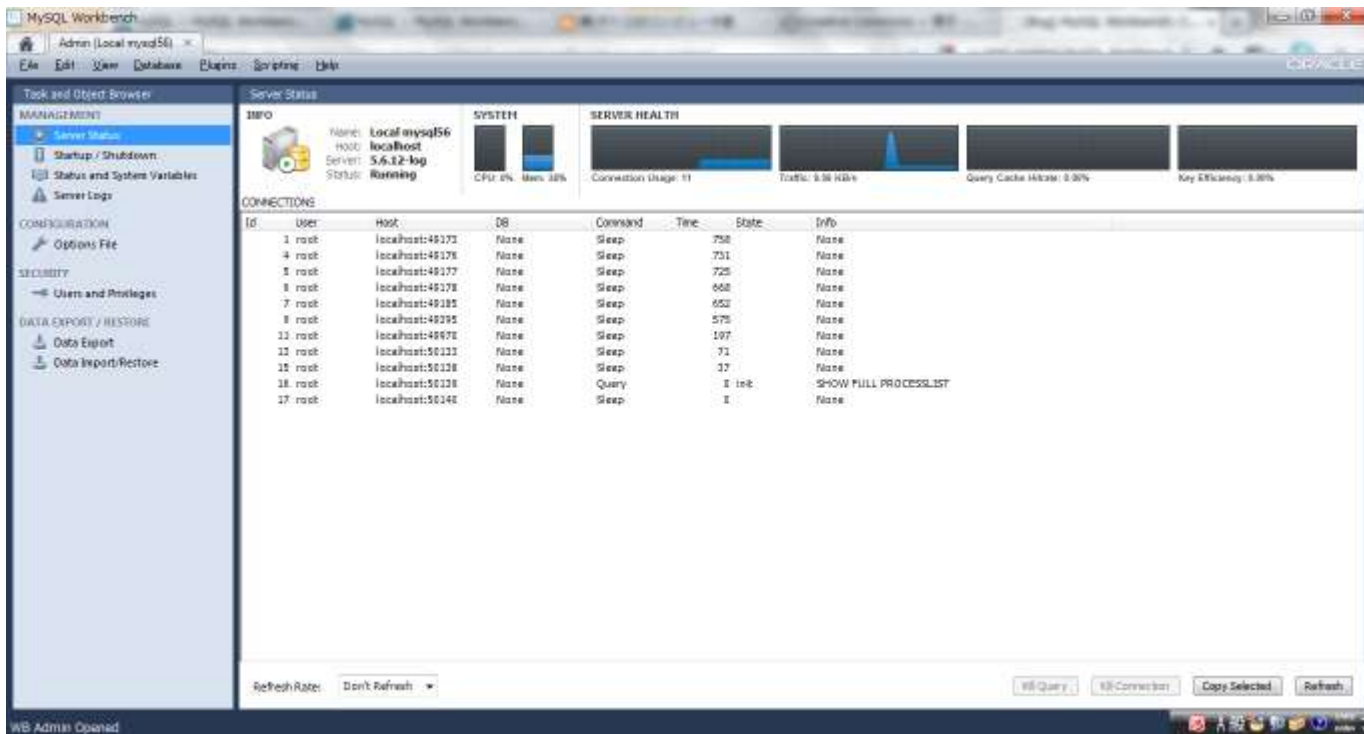
- マイグレーション
 - 他DBからMySQLへの移行を支援できるマイグレーションウィザード

起動画面



管理

- CPU使用率やSHOW PROCESS LISTの結果を確認



The screenshot displays the MySQL Workbench interface, specifically the 'Server Status' window for a local MySQL 5.6.12-log instance. The window is divided into several sections:

- MANAGEMENT:** Includes links for Server Status, Startup/Shutdown, Status and System Variables, and Server Logs.
- CONFIGURATION:** Includes a link for Options File.
- SECURITY:** Includes a link for Users and Privileges.
- DATA EXPORT / HISTORY:** Includes links for Data Export and Data Import/Restore.

The main content area shows the following information:

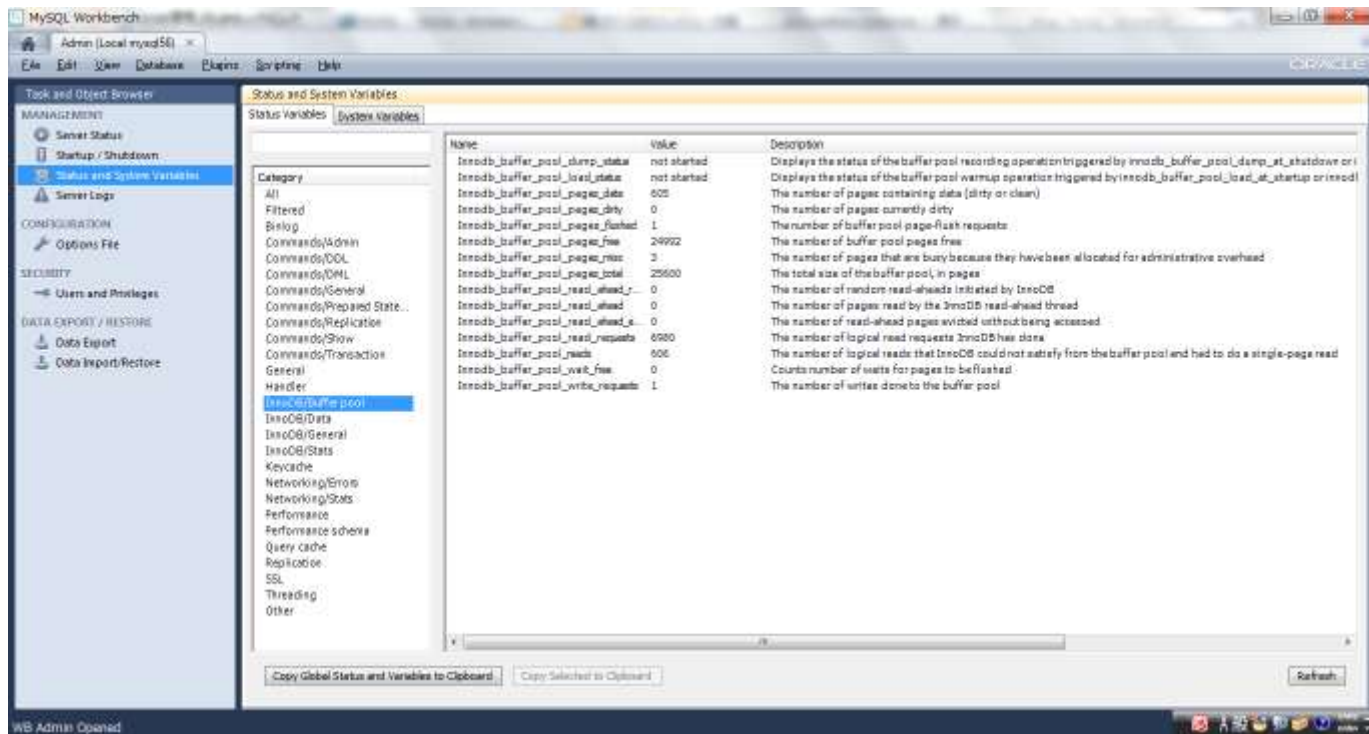
- Server Status:** Name: Local mysql56, Host: localhost, Server: 5.6.12-log, Status: Running.
- SYSTEM:** CPU 0%, Mem 38%.
- SERVER HEALTH:** Connection Usage: 11, Total: 9.36 MB/s, Query Cache Hit: 0.00%, Key Efficiency: 0.00%.
- CONNECTIONS:** A table listing active connections.

Id	User	Host	DB	Command	Time	State	Info
1	root	localhost:48171	None	Sleep	750		None
4	root	localhost:48176	None	Sleep	751		None
5	root	localhost:48177	None	Sleep	725		None
8	root	localhost:48178	None	Sleep	660		None
7	root	localhost:48181	None	Sleep	652		None
8	root	localhost:48295	None	Sleep	575		None
11	root	localhost:48671	None	Sleep	197		None
11	root	localhost:50111	None	Sleep	71		None
15	root	localhost:50118	None	Sleep	37		None
16	root	localhost:50118	None	Query	1	Ink	SHOW FULL PROCESSLIST
17	root	localhost:50141	None	Sleep	1		None

At the bottom of the window, there is a 'Refresh Rate' dropdown set to 'Don't Refresh' and buttons for 'View Query', 'View Connection', 'Copy Selected', and 'Refresh'.

管理

- ステータス変数やシステム変数を確認

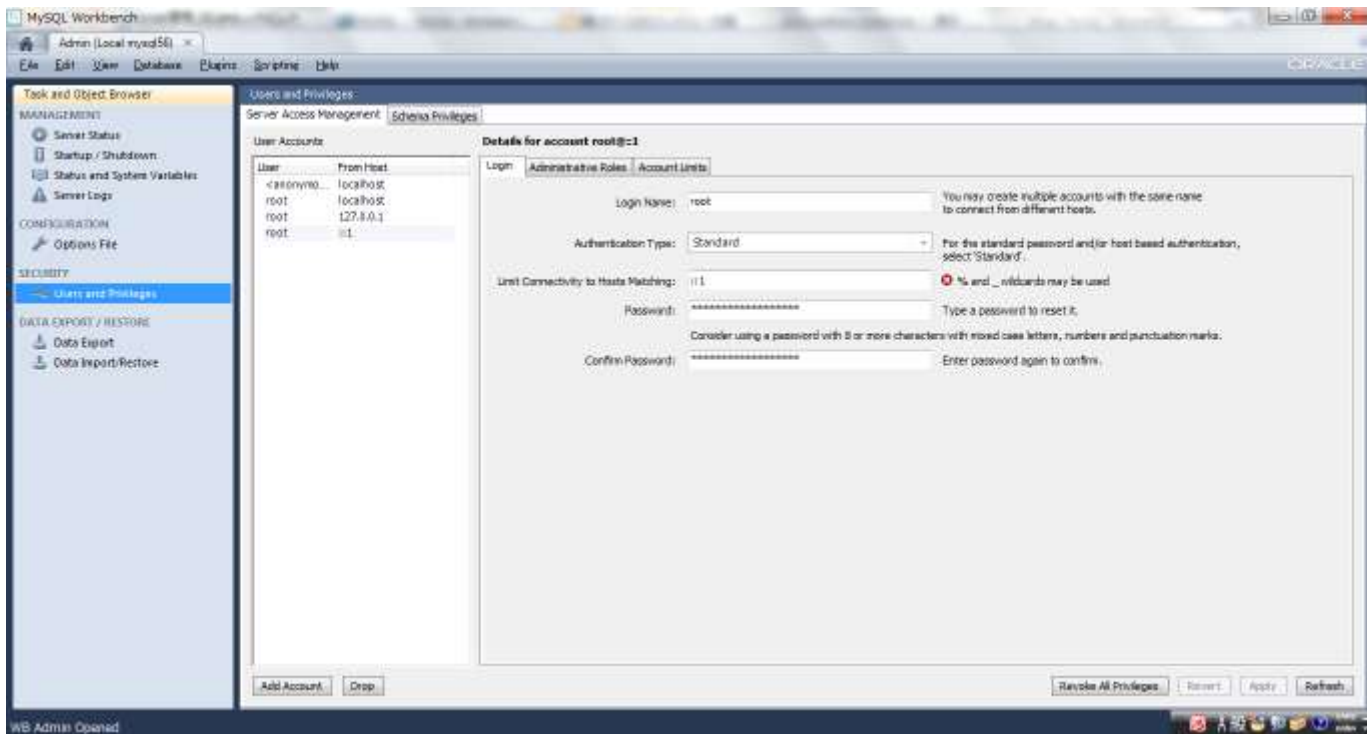


The screenshot shows the MySQL Workbench interface with the 'Status and System Variables' window open. The 'System Variables' tab is selected, and the 'InnoDB Buffer Pool' category is highlighted in the left sidebar. The main window displays a table of system variables.

Name	Value	Description
InnoDB_buffer_pool_dump_status	not started	Displays the status of the buffer pool recording operation triggered by innodb_buffer_pool_dump_at_shutdown or innodb_buffer_pool_dump_at_shutdown
InnoDB_buffer_pool_load_status	not started	Displays the status of the buffer pool warmup operation triggered by innodb_buffer_pool_load_at_startup or innodb_buffer_pool_load_at_startup
InnoDB_buffer_pool_page_data	605	The number of pages containing dirty (dirty or clean)
InnoDB_buffer_pool_page_dirty	0	The number of pages currently dirty
InnoDB_buffer_pool_page_flushed	1	The number of buffer pool page-flush requests
InnoDB_buffer_pool_page_free	24992	The number of buffer pool pages free
InnoDB_buffer_pool_page_flush	3	The number of pages that are busy because they have been allocated for administrative overhead
InnoDB_buffer_pool_page_total	25600	The total size of the buffer pool, in pages
InnoDB_buffer_pool_read_ahead_requests	0	The number of random read-aheads initiated by InnoDB
InnoDB_buffer_pool_read_ahead_bytes	0	The number of pages read by the InnoDB read-ahead thread
InnoDB_buffer_pool_read_ahead_pages	0	The number of read-ahead pages evicted without being accessed
InnoDB_buffer_pool_read_requests	6080	The number of logical read requests InnoDB has done
InnoDB_buffer_pool_reads	606	The number of logical reads that InnoDB could not satisfy from the buffer pool and had to do a single-page read
InnoDB_buffer_pool_wait_free	0	Counts number of waits for pages to be flushed
InnoDB_buffer_pool_writes	1	The number of writes done to the buffer pool

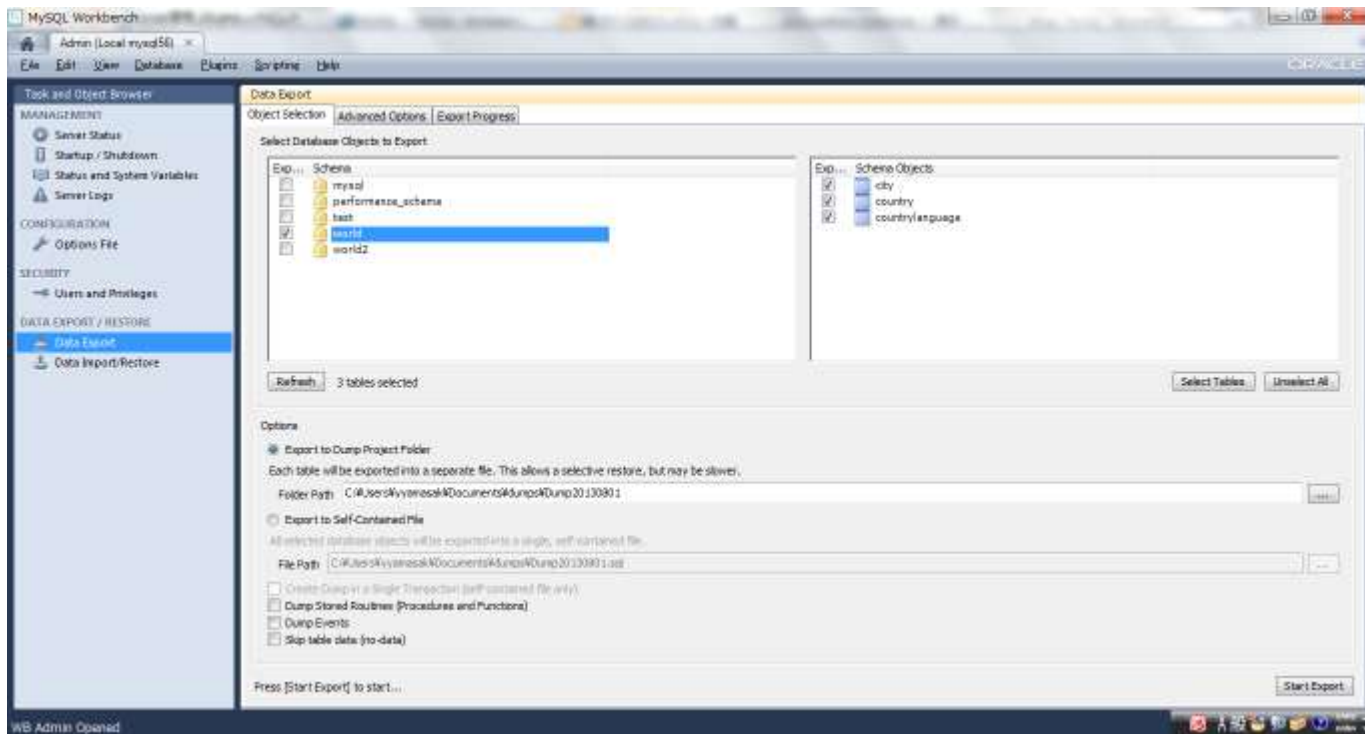
管理

- ユーザ管理、権限管理



管理

- データのエクスポート/インポート



開発

- SQLエディタ

The screenshot shows the MySQL Workbench interface. The SQL Editor window contains the following query:

```
use world;  
  
SELECT * FROM Country;  
  
SELECT * FROM Country WHERE Code LIKE 'J%';  
  
SELECT  
Language,  
COUNT (*)
```

The Results window displays a table with the following data:

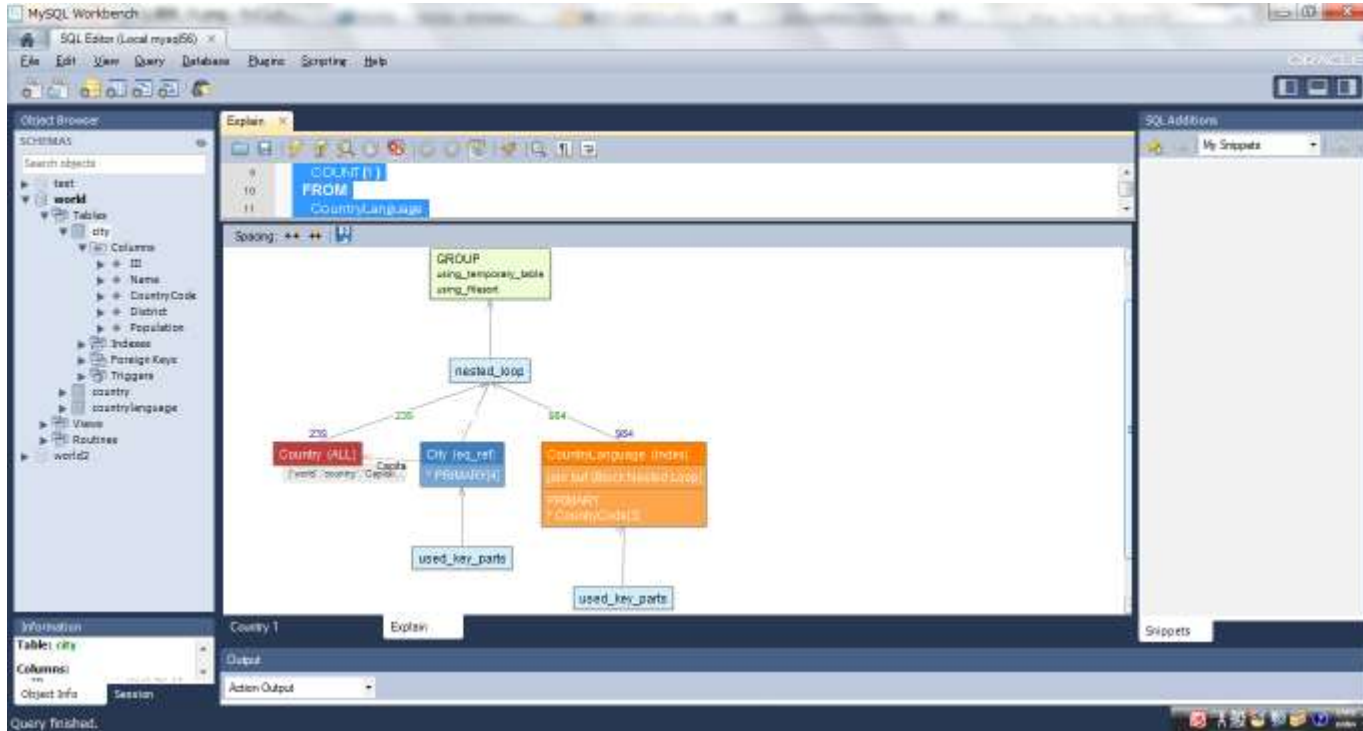
Code	Name	Continent	Region	SurfaceArea	IndepYear	Population	LifeExpectancy	GNP	GNPOld	LocalName	Government
JAM	Jamaica	North America	Caribbean	10990.00	1962	2583000	75.2	6871.00	6722.00	Jamaica	Constitutional Monarchy
JOR	Jordan	Asia	Middle East	88946.00	1946	5083000	77.4	7026.00	7051.00	Al-Urdunn	Constitutional Monarchy
JPN	Japan	Asia	Eastern A.	377825.00	-860	126714000	81.7	378704.00	4192638.00	Nihon/Nippon	Constitutional Monarchy
000	000	000	000	000	000	000	000	000	000	000	000

The Action Output window shows the following results:

Time	Action	Message	Duration / Patch
1 13:23:31	use world	0 row(s) affected	0.000 sec
2 13:23:32	SELECT * FROM Country WHERE Code LIKE 'J%' LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

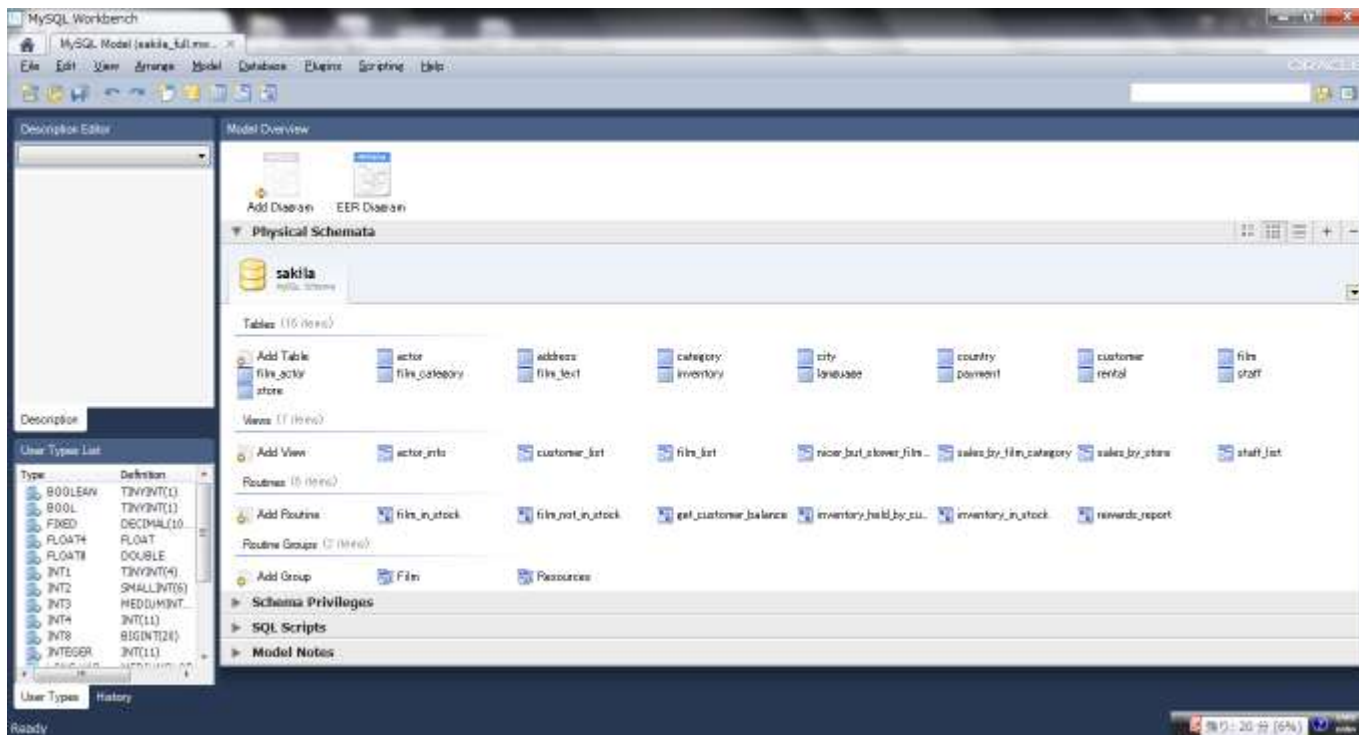
開発

- ビジュアルExplain(MySQL5.6以降で対応)



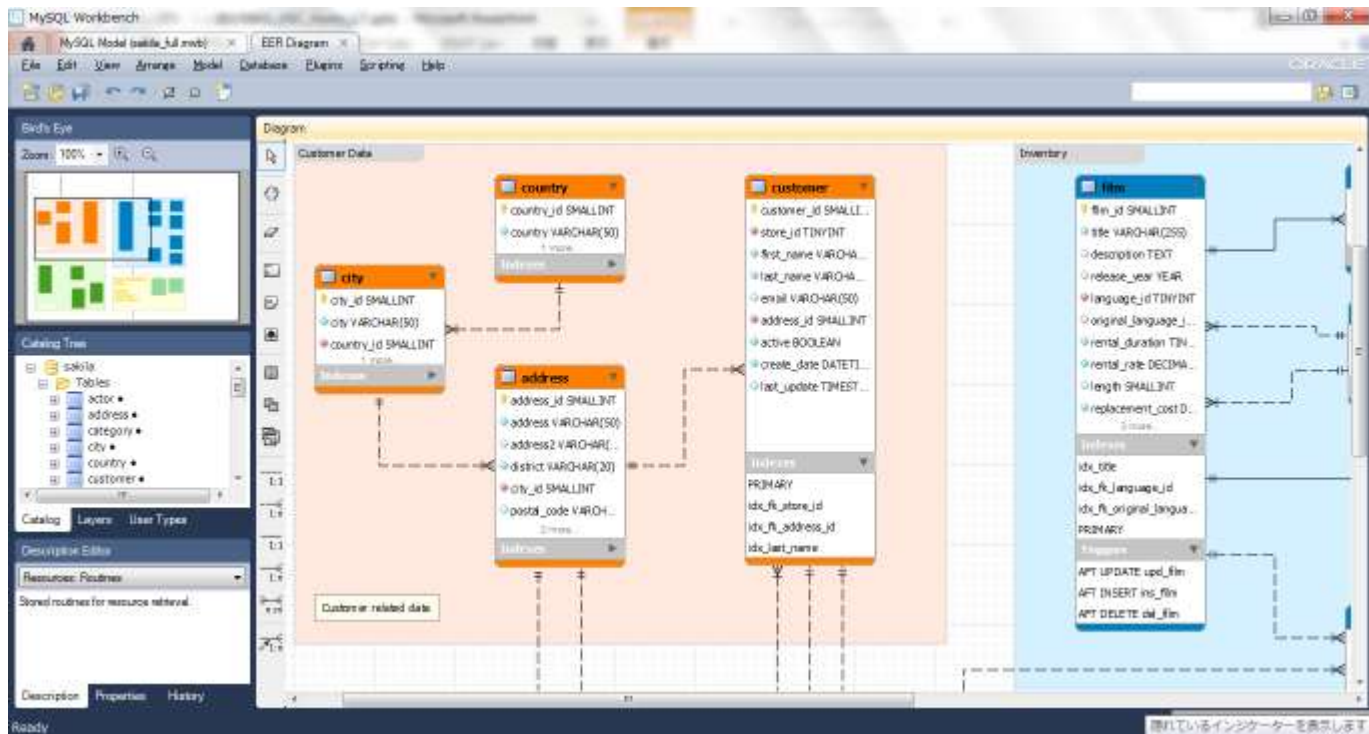
設計

- データモデルの作成



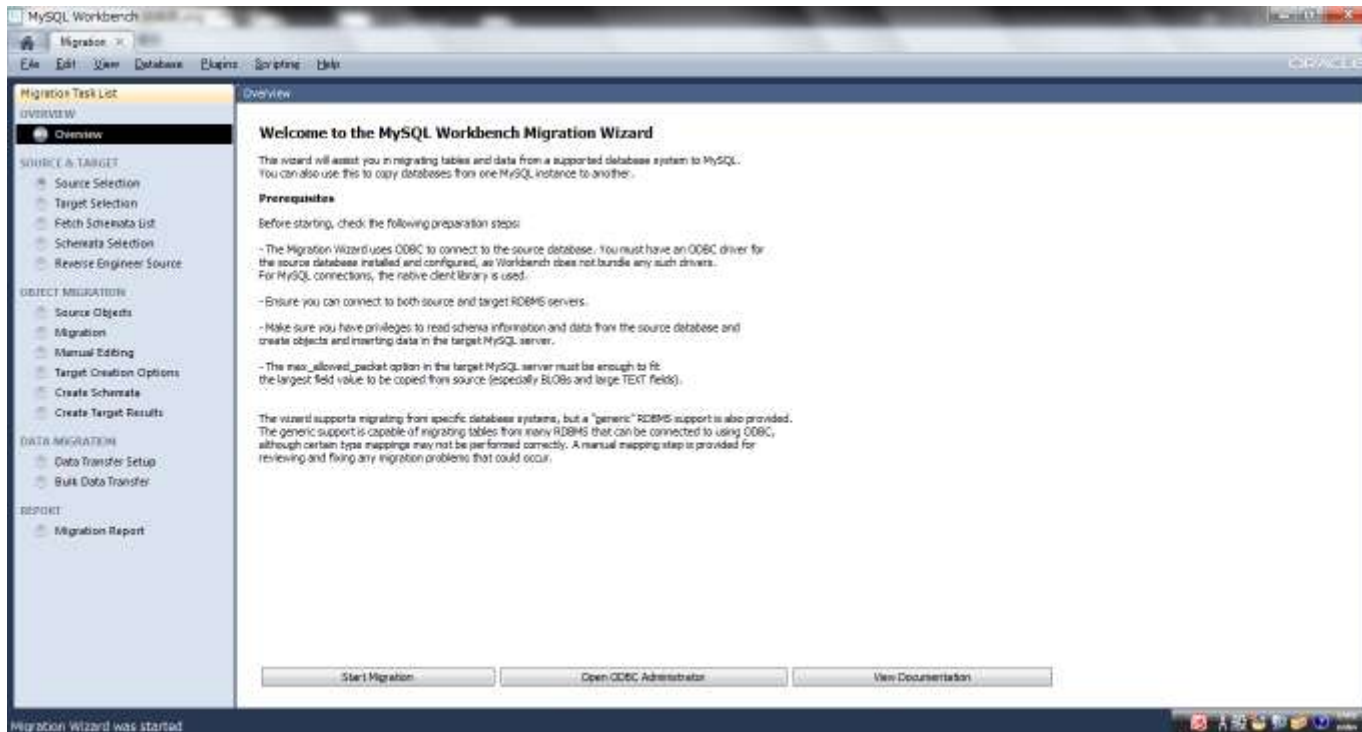
設計

- ER図作成、フォワード/リバース エンジニアリング



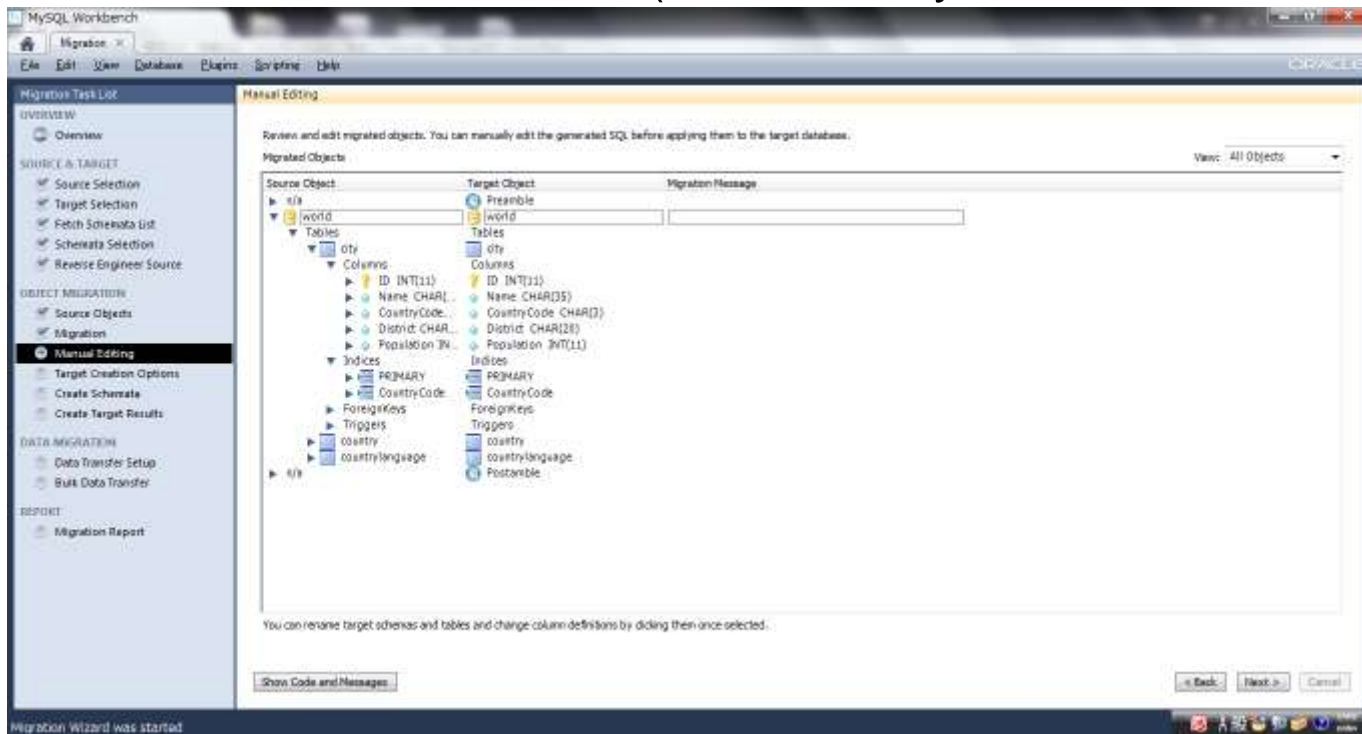
マイグレーション

- マイグレーションウィザード(他DBからMySQLへの移行をアシスト)



マイグレーション

- マイグレーションウィザード(他DBからMySQLへの移行をアシスト)



参考情報

- 主要機能一覧

<http://www-jp.mysql.com/products/workbench/features.html>

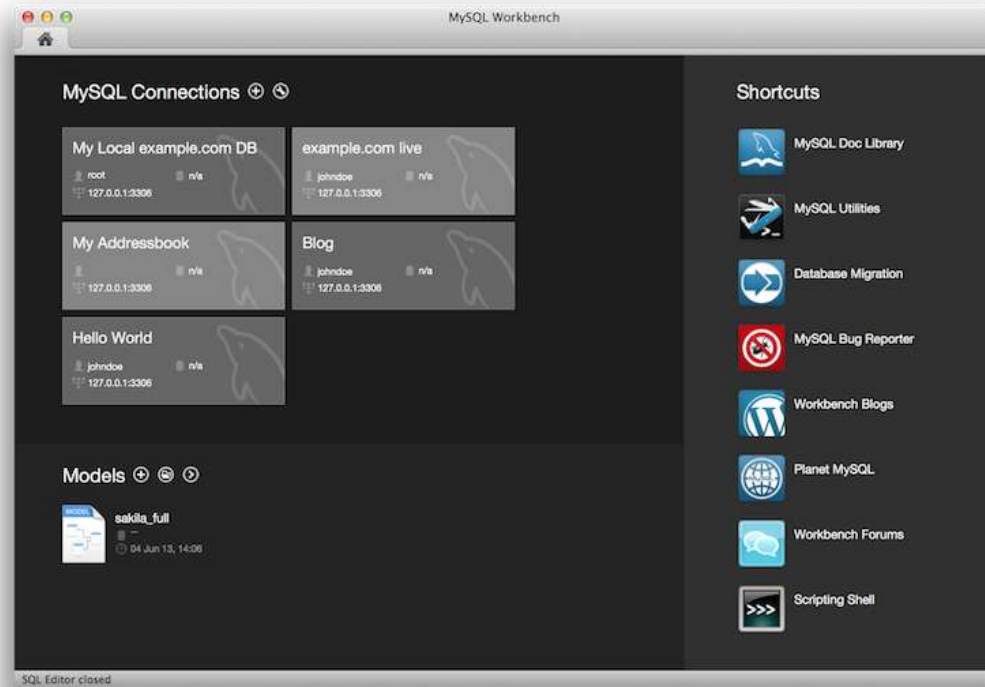
- ダウンロード先

<http://dev.mysql.com/downloads/tools/workbench/>

- マニュアル

<http://dev.mysql.com/doc/workbench/en/>

MySQL Workbench 6.0 RC(リリース候補版) 2013/08/02 リリース！！



本日15:15から、セッションやります！！
是非ご来場ください。

MySQL Cluster7.3 GAリリース記念セミナー！
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<http://slidesha.re/13JtZdS>

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