

Instituto Tecnológico Superior de Jerez.



Jerez de García Salinas a 01 de Mayo del 2020.

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S17070157.

INGENIERÍA EN SISTEMAS COMPUTACIONALES.

Administración de Bases de Datos.

6to. Semestre.

Reporte de Práctica (Mantenimiento de Bitácoras).

ISC. Salvador Acevedo Sandoval.

Reporte de Práctica (Mantenimiento de Bitácoras).

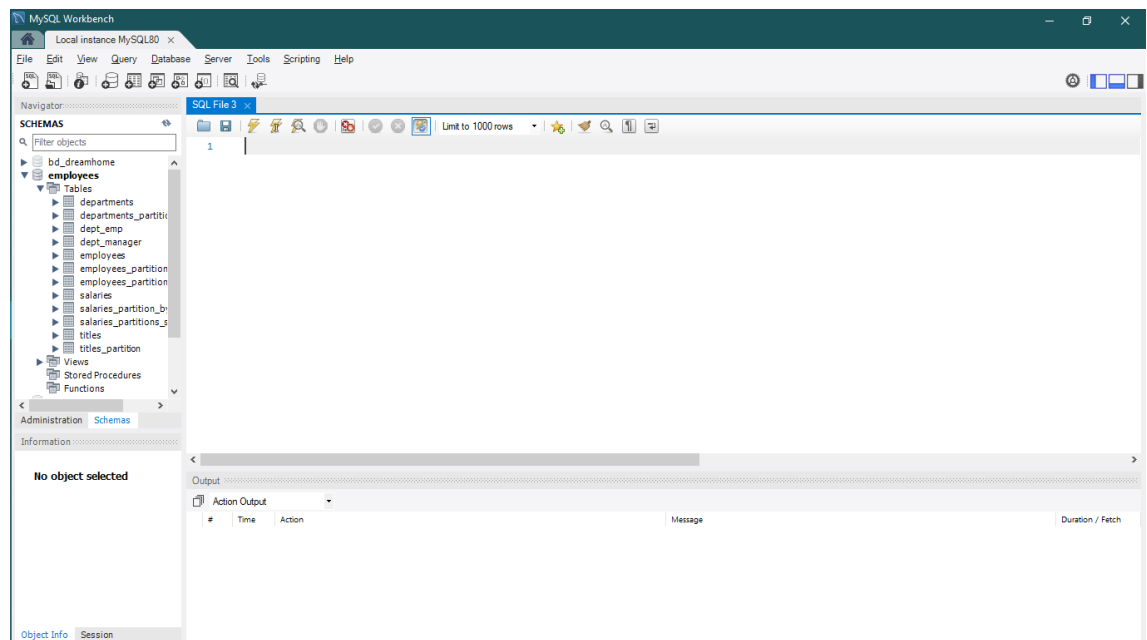
Objetivo.

El objetivo de desarrollar esta práctica es comprender y visualizar de qué forma se puede dar mantenimiento a las bitácoras de MySQL.

Del mismo modo, la práctica sirve para ver cuáles son las variables y comandos necesarios para este proceso.

Procedimiento / Resultados.

1. Abrimos MySQL Workbench e iniciamos una nueva conexión.



2. Ejecutamos los siguientes comandos (referente a general_log_file).

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

SCHEMAS

bd_dreamhome

employees

departments

departments_partition

dept_emp

dept_manager

employees

employees_partition

employees_partition

salaries

salaries_partition

salaries_partition

salaries_partitions

titles

titles_partition

Views

Stored Procedures

Functions

Administration Schemas

Information

No object selected

Object Info Session

SQL File 3*

Limit to 1000 rows

1 show variables like 'general_log_file';

Result Grid

Variable_name	Value
general_log_file	DESKTOP-51B2KQ7.log

Result 1

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	14:23:38	show variables like 'general_log_file'	1 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

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salaries_partition

salaries_partition

salaries_partitions

titles

titles_partition

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Information

No object selected

Object Info Session

SQL File 3*

Limit to 1000 rows

1 show variables like 'general_log_file';

2 set global general_log_file='MYSQL.log';

3 show variables like 'general_log_file';

Result Grid

Variable_name	Value
general_log_file	MYSQL.log

Result 2

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	14:23:38	show variables like 'general_log_file'	1 row(s) returned	0.000 sec / 0.000 sec
2	14:24:58	set global general_log_file='MYSQL.log'	0 row(s) affected	0.000 sec
3	14:25:47	show variables like 'general_log_file'	1 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80

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Navigator: SCHEMAS

Filter objects

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employees_partition

salaries

salaries_partition

salaries_partition

titles

titles_partition

Views

Stored Procedures

Functions

Administration Schemas

Information

No object selected

SQL File 3*

Limit to 1000 rows

```

1 • show variables like 'general_log_file';
2 • set global general_log_file='MIMYSQL.log';
3 • show variables like 'general_log_file';
4
5 • set global general_log = ON;

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	14:23:38	show variables like 'general_log_file'	1 row(s) returned	0.000 sec / 0.000 sec
2	14:24:58	set global general_log_file='MIMYSQL.log'	0 row(s) affected	0.000 sec
3	14:25:47	show variables like 'general_log_file'	1 row(s) returned	0.000 sec / 0.000 sec
4	14:26:52	set global general_log = ON	0 row(s) affected	0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS

Filter objects

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departments_partition

dept_emp

dept_manager

employees

employees_partition

employees_partition

salaries

salaries_partition

salaries_partition

titles

titles_partition

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Information

No object selected

SQL File 3*

Limit to 1000 rows

```

4
5 • set global general_log = ON;
6
7 • set global general_log_file=default;
8 • set global general_log=default;
9 • show variables like 'general_log_file';
10 • show variables like 'general_log';

```

Result Grid

Variable_name	Value
general_log_file	C:\ProgramData\MySQL\MySQL Server 8.0\Data\DESKTOP-5IB2Q7\log

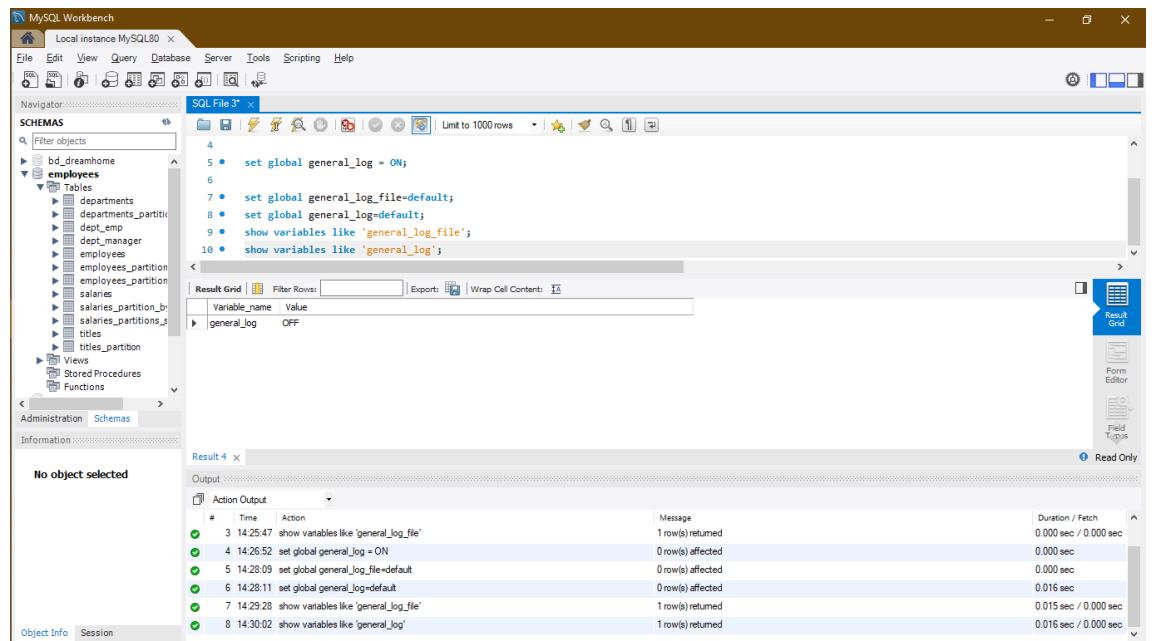
Result 3

Output

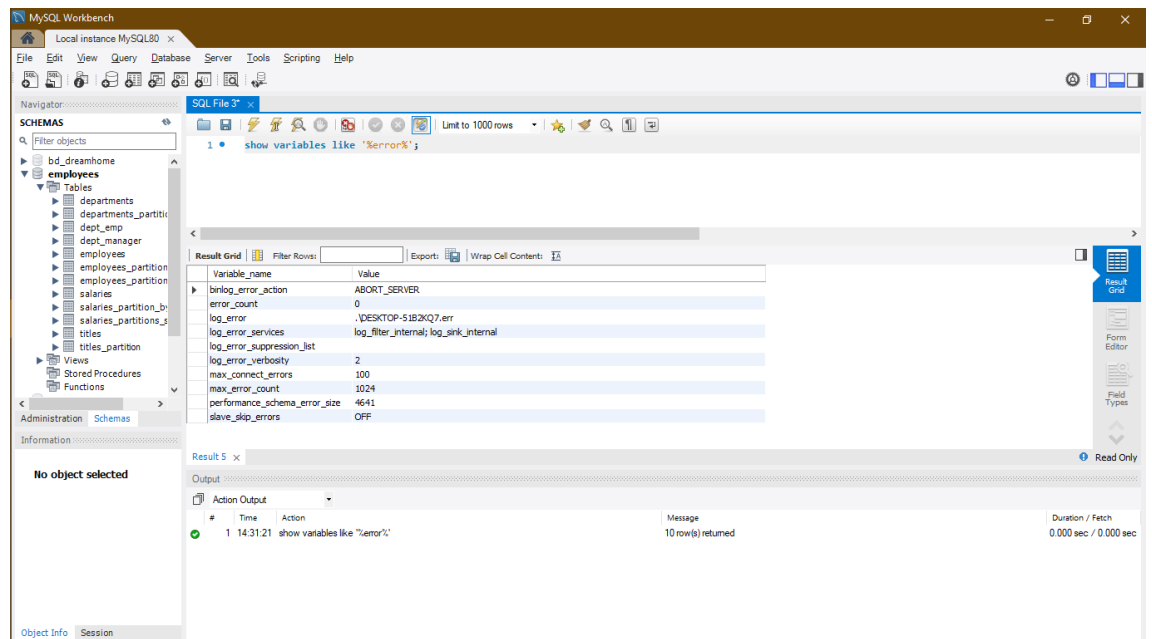
Action Output

#	Time	Action	Message	Duration / Fetch
2	14:24:58	set global general_log_file='MIMYSQL.log'	0 row(s) affected	0.000 sec
3	14:25:47	show variables like 'general_log_file'	1 row(s) returned	0.000 sec / 0.000 sec
4	14:26:52	set global general_log = ON	0 row(s) affected	0.000 sec
5	14:28:09	set global general_log_file=default	0 row(s) affected	0.000 sec
6	14:28:11	set global general_log=default	0 row(s) affected	0.016 sec
7	14:29:28	show variables like 'general_log_file'	1 row(s) returned	0.015 sec / 0.000 sec

Object Info Session



3. Ejecutamos los siguientes comandos (referente a error_log).



4. Ejecutamos los siguientes comandos (referente a slow_query).

MySQL Workbench

Local instance MySQL80

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Navigator

SCHEMAS

Filter objects

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employees

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departments_partition

dept_emp

dept_manager

employees

employees_partition

employees_partition

salaries

salaries_partition_b

salaries_partitions_s

titles

titles_partition

Views

Stored Procedures

Functions

Administration Schemas

Information

No object selected

Object Info Session

SQL File 3*

Limit to 1000 rows

```
1 • set global slow_query_log=1;
2 • show variables like 'slow_query_log';
```

Result Grid

Variable_name	Value
slow_query_log	ON

Result 6

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	14:33:24	set global slow_query_log=1	0 row(s) affected	0.000 sec
2	14:33:26	show variables like 'slow_query_log'	1 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

bd_dreamhome

employees

departments

departments_partition

dept_emp

dept_manager

employees

employees_partition

employees_partition

salaries

salaries_partition_b

salaries_partitions_s

titles

titles_partition

Views

Stored Procedures

Functions

Administration Schemas

Information

No object selected

Object Info Session

SQL File 3*

Limit to 1000 rows

```
1 • set session long_query_time=1;
2 • show variables like 'long_query_time';
```

Result Grid

Variable_name	Value
long_query_time	1.000000

Result 7

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	14:34:44	set session long_query_time=1	0 row(s) affected	0.000 sec
2	14:34:46	show variables like 'long_query_time'	1 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench - Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

SCHEMAS

- bd_dreamhome
- employees
 - departments
 - departments_partition
 - dept_emp
 - dept_manager
 - employees
 - employees_partition
 - employees_partition
 - salaries
 - salaries_partition_b
 - salaries_partitions_s
 - titles
 - titles_partition
- Views
- Stored Procedures
- Functions

Administration Schemas

Information

No object selected

SQL File 3* x

```
1 select * from employees.salaries where employees.salaries.from_date='1995-12-02';
```

Result Grid

emp_no	salary	from_date	to_date
10956	40000	1995-12-02	1996-12-01
12551	55748	1995-12-02	1996-12-01
14095	78331	1995-12-02	1996-12-01
14817	47193	1995-12-02	1996-12-01
14922	60397	1995-12-02	1996-12-01
15164	43304	1995-12-02	1996-12-01
15387	62042	1995-12-02	1996-12-01
15746	63607	1995-12-02	1996-12-01
16011	49198	1995-12-02	1996-12-01
16290	47737	1995-12-02	1996-12-01
17130	45581	1995-12-02	1996-12-01
17170	97197	1995-12-02	1996-12-01

Output

#	Time	Action	Message	Duration / Fetch
1	14:38:10	select * from employees.salaries where employees.salaries.from_date='1995-12-02' LIMIT 0, 10...	574 row(s) returned	2.187 sec / 0.703 sec

MySQL Workbench - Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

SCHEMAS

- bd_dreamhome
- employees
 - departments
 - departments_partition
 - dept_emp
 - dept_manager
 - employees
 - employees_partition
 - employees_partition
 - salaries
 - salaries_partition_b
 - salaries_partitions_s
 - titles
 - titles_partition
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- Stored Procedures
- Functions

Administration Schemas

Information

No object selected

SQL File 3* x

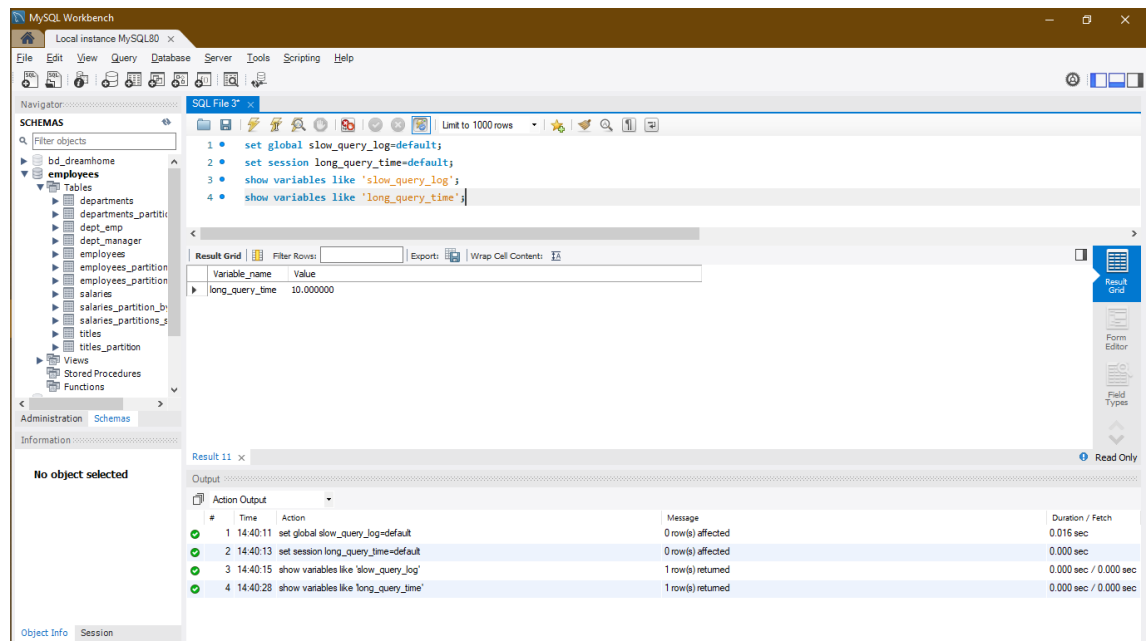
```
1 set global slow_query_log=default;
2 set session long_query_time=default;
3 show variables like 'slow_query_log';
4 show variables like 'long_query_time';
```

Result Grid

Variable_name	Value
slow_query_log	OFF

Output

#	Time	Action	Message	Duration / Fetch
1	14:40:11	set global slow_query_log=default	0 row(s) affected	0.016 sec
2	14:40:13	set session long_query_time=default	0 row(s) affected	0.000 sec
3	14:40:15	show variables like 'slow_query_log'	1 row(s) returned	0.000 sec / 0.000 sec



Conclusión.

Me imagine que sería una práctica mucho más complicada, pero no, en realidad fue demasiado fácil, yo me imaginaba que con esta práctica estaríamos gestionando absolutamente todo lo referente a las bitácoras, incluso llegar a abrir una

Si bien si analizamos algunos comandos para activar o desactivar ciertas bitácoras, así como para cambiar el nombre del archivo que las almacenaría, cambiar el tiempo por consulta y así, me imaginaba un proceso mucho más largo, pero creo que básicamente es lo mismo que en el reporte de gestión de bitácoras, con la excepción de que en este lo trabajamos en MySQL Workbench.

Otra diferencia es que en el reporte anterior estuvimos trabando directamente sobre el archivo my.ini y con la terminal de Windows, siendo permanentes los cambios realizados, claro, hasta que no se modifiquen nuevamente.

En este caso, las modificaciones aplicadas a las variables eran globales o de sesión, cosa que al salir de MySQL Workbench y volver a entrar recuperarían los valores que tienen asignados en el archivo my.ini.

Referencias.

- Esteban Faustino Muñoz Hidalgo y Leonardo Bonilla Trujillo. (2020). 2_MantenimientoDeBitacoras_MuñozHidalgoEstebanFaustino_BonillaTrujilloLeonardo. 2020, de docs.google.com Sitio web: https://docs.google.com/document/d/1AsLBS303uSpFGruZB3tVKrdX2T9IUQsH0ejhh_5tZys/edit