

MySQL - Kleine Hilfe

Abfrage über mehrere Tabellen mit inner join

```
select familienname,vorname,1_jahr_bezahlt,2_jahr_bezahlt,avastId from  
t_users u inner join t_hosts h on (u.userId=h.userId) inner join t_avast a  
on (h.hostId=a.hostId);
```

zeigen aller Views

```
SHOW FULL TABLES IN database_name WHERE TABLE_TYPE LIKE 'VIEW';
```

zeige die CREATE VIEW Syntax

```
SHOW CREATE VIEW my_view_name;
```

fügt eine neue Spalte in eine existierenden Tabelle ein

```
alter table t_hosts add mac_address varchar(17);
```

ändert den Spaltennamen einer Tabelle

```
alter table t_hosts change mac_adress mac_address varchar(17);
```

zeigt Spalteneigenschaften einer Tabelle an

```
explain t_hosts;
```

ändert einen Tabelleneintrag

```
update t_hosts set hostname='motog-nadin' where hostId='4';
```

zeigt die Rechte des Users an

```
show grants for 'marko'@'marko-ThinkPad-T500.tuxnet.local';
```

löscht alle Privilegien des Users

```
revoke all privileges on `tuxnetlocal`.* from 'marko'@'marko-thinkpad-t500.tuxnet.local';
```

User Rechte vergeben

```
GRANT all privileges on `KMyMoney`.* TO 'marko'@'notebook-marko.tuxnet.local' IDENTIFIED BY 'password';
```

Tips to reduce the size of MySQL Database

List MySQL Table and Index Size

Use the following queries to monitor and evaluation table and index size.

Query below returns the size of each Database in MB.

```
MariaDB [(none)]> SELECT table_schema "DB Name", Round(Sum(data_length + index_length) / 1024 / 1024, 1) "DB Size in MB"
FROM information_schema.tables
GROUP BY table_schema;
```

DB Name	DB Size in MB
hope	75714.0
information_schema	0.2
mysql	1.9
performance_schema	0.0

Query below returns the size of each Table in MB.

```
SELECT table_schema as `Database`, table_name AS `Table`, round(((data_length + index_length) / 1024 / 1024), 2) `Size in MB`
FROM information_schema.TABLES
ORDER BY (data_length + index_length) DESC
LIMIT 5; -- adjust it according to your needs
```

Database	Table	Size in MB
hope	eth_products	44029.54

hope	eth_customers	28868.08
hope	eth_emails	1423.92
hope	eth_id	1392.43
mysql	help_topic	1.38

Query below returns index size ordered from the ones using the most.

```
SELECT table_schema as
database_name,table_name,round(index_length/1024/1024,2) as index_size
FROM information_schema.tables
WHERE table_type = 'BASE TABLE'
      and table_schema not in ('information_schema',
'sys','performance_schema','mysql')
      and table_schema = 'your database name'
ORDER BY index_size desc;
```

database_name	table_name	index_size
hope	eth_products	18561.74
hope	eth_customers	12037.89
hope	eth_emails	638.70
hope	eth_id	607.20
hope	eth_temp	0.00

Delete Unwanted Data

The easier and the hardest way to reduce MySQL size is by deleting all the unwanted data. DB admins usually fill in DB tables or columns with unnecessary data. A DB schema reevaluation is essential to identify such cases.

The following query helps determine the last time a table is updated.

```
SELECT table_schema,table_name,create_time,update_time from
information_schema.tables
WHERE table_schema not in ('information_schema','mysql')
      and engine is not null and ((update_time < (now() - interval 1 day)) or
update_time is NULL)
LIMIT 5;
```

table_schema	table_name	create_time	update_time
MariaDB	eth_table1	2019-08-23 20:52:51	2019-08-23 22:54:34
MariaDB	eth_table2	2019-08-23 19:20:23	2019-08-23 19:20:23

MariaDB	eth_table3	2019-08-23 19:20:29	2019-08-23 19:20:29
MariaDB	eth_table4	2019-08-26 19:18:04	2019-08-26 21:05:10
MariaDB	eth_temp	2019-08-25 01:52:33	2019-08-25 21:16:16
+-----+-----+-----+-----+			
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When all unused data are unidentified the following commands will help you delete them :

Be extra careful when using delete/drop commands ! Deleted data cannot be recovered!

DELETE FROM table1 / TRUNCATE table1	--Deletes all Records
DELETE FROM table1 WHERE condition	--Deletes records based on a condition
DROP TABLE table	--Deletes table
DROP DATABASE	--Deleting database
ALTER TABLE table_name DROP column_name;	--Deletes a column

Find and Remove Unused Indexes

A general rule of thumb is that the more indexes you have on a table, the slower INSERT, UPDATE, and DELETE operations will be and more disk space will be consumed. It is essential to track down unused indexes that consume disk space and slow down your database.

By default, statistics are not collected. This is to ensure that statistics collection does not cause any extra load on the server unless desired.

To enable statistics dynamically execute the following command :

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