

# TencentDB for DBbrain

## FAQs

### Product Documentation



Tencent Cloud

## Copyright Notice

©2013-2024 Tencent Cloud. All rights reserved.

Copyright in this document is exclusively owned by Tencent Cloud. You must not reproduce, modify, copy or distribute in any way, in whole or in part, the contents of this document without Tencent Cloud's the prior written consent.

## Trademark Notice



All trademarks associated with Tencent Cloud and its services are owned by Tencent Cloud Computing (Beijing) Company Limited and its affiliated companies. Trademarks of third parties referred to in this document are owned by their respective proprietors.

## Service Statement

This document is intended to provide users with general information about Tencent Cloud's products and services only and does not form part of Tencent Cloud's terms and conditions. Tencent Cloud's products or services are subject to change. Specific products and services and the standards applicable to them are exclusively provided for in Tencent Cloud's applicable terms and conditions.

# Contents

FAQs

MySQL Performance

Product

# FAQs

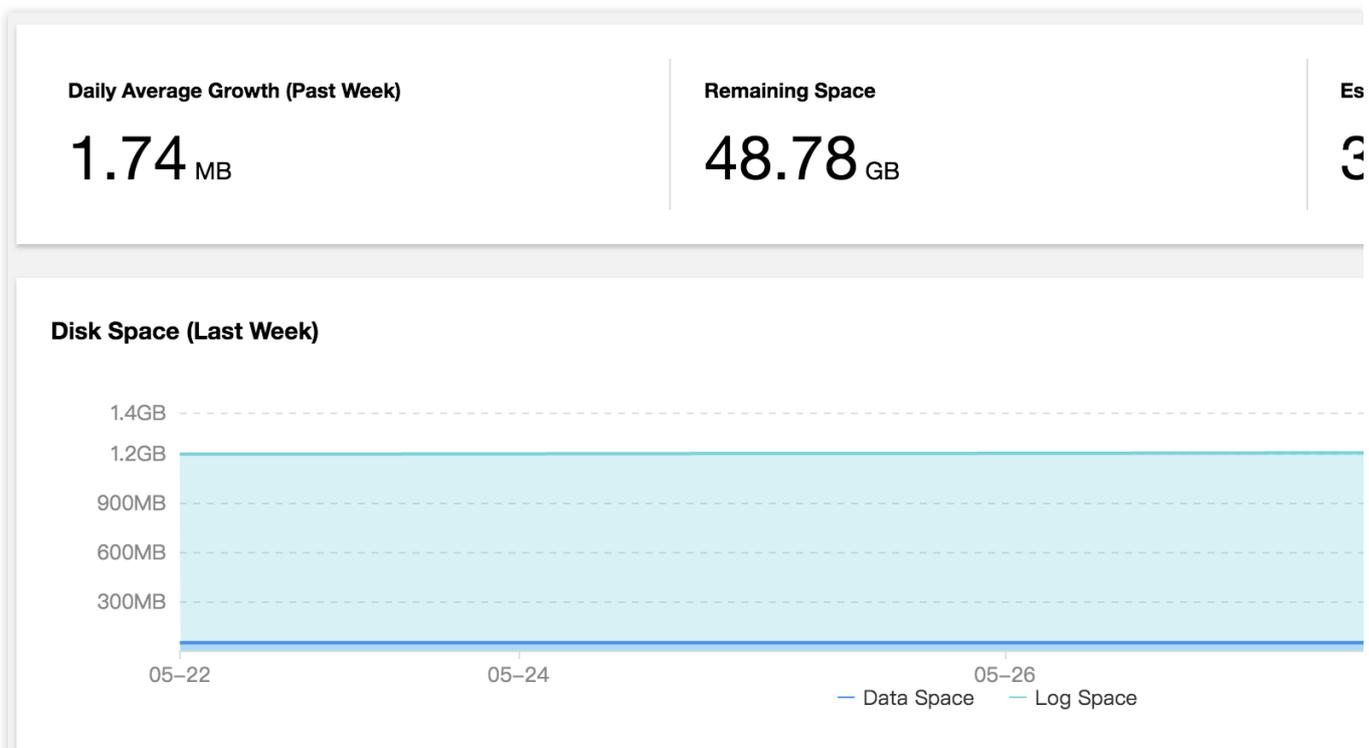
## MySQL Performance

Last updated : 2022-07-31 17:03:51

### How do I view the storage capacity usage of a TencentDB for MySQL instance?

Log in to the [DBbrain Console](#) and select **Performance Optimization** on the left sidebar. On the displayed page, select a database at the top and select the **Space Analysis** tab.

On the capacity analysis page, you can view the comparison between daily increases in the last week, available disk capacity, estimated number of available days, and disk capacity usage trends in the last week. In addition, you can view the capacity utilization and fragmentation details of each database table in your instance.



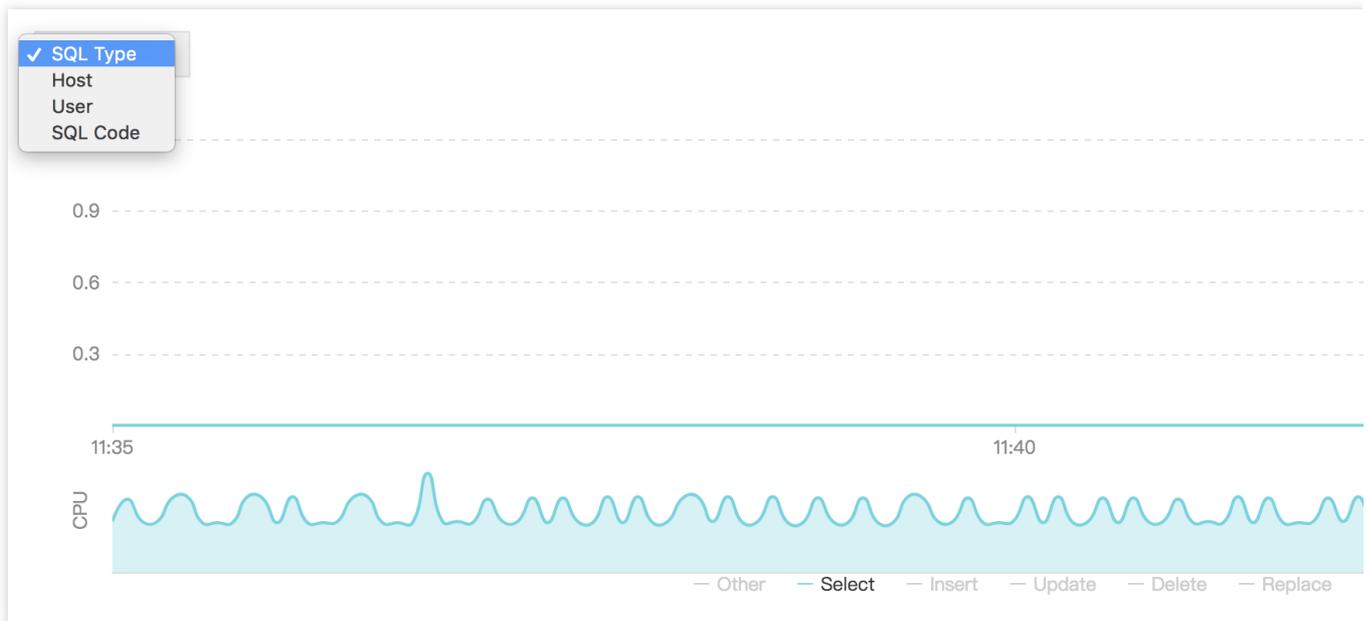
### How do I analyze the full SQL execution track of a TencentDB for MySQL instance?

Log in to the [DBbrain Console](#) and select **Performance Optimization** on the left sidebar. On the displayed page, select a database at the top and select the **Audit Log Analysis** tab.

1. Click **Create Analysis Task** at the top of the chart, select the desired time period, and click **Confirm**.
2. Click **View SQL Analysis** in the task list to access the SQL analysis page.

No.	Type	Health Level ▾	Creation Time ↕	Time Range
408	Scheduled T...	Healthy	2020-05-27 00:01:16	2020-05-25 23:59:00 ~ 2020-05-26 23:59:00

3. On the SQL analysis page, you can display the view by SQL Type, Host and User and specify a time period to expand the view and view data at specific time points.



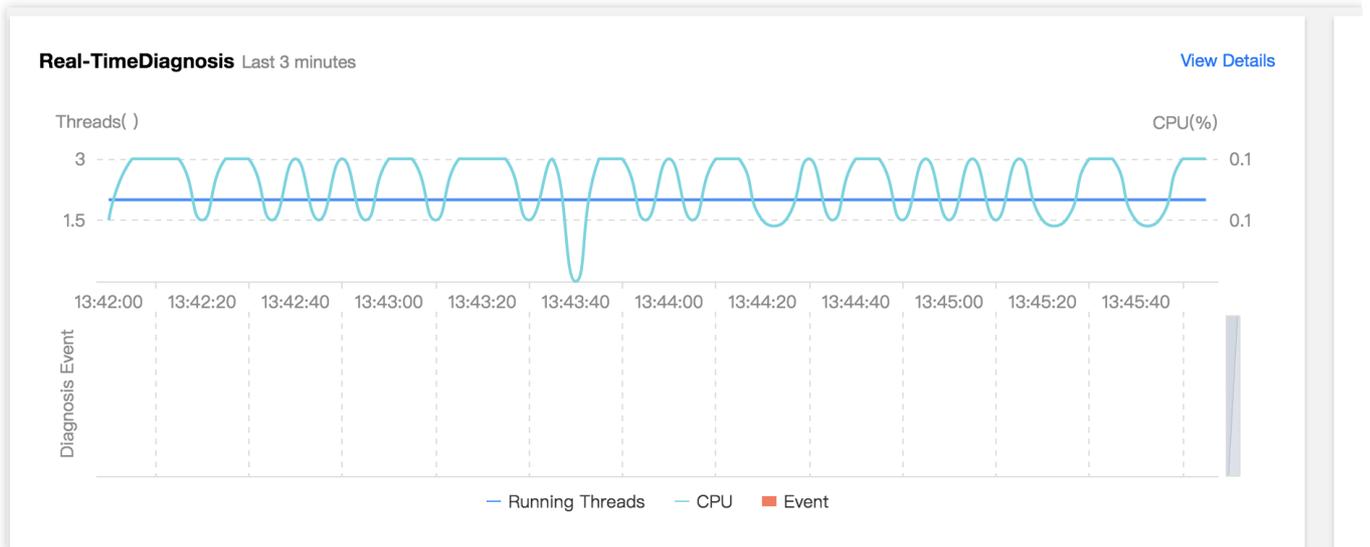
4. Click the SQL template on the target row, and the SQL statement details will be displayed on the right.

On the analysis page, you can view and copy specific SQL statements and optimize them based on the provided optimization suggestion or description.

On the statistics page, you can view the statistical analysis and execution duration track of the specified types of SQL statements by Host, User, and SQL Code.

## How do I perform diagnosis or optimization by myself when a TencentDB for MySQL instance is faulty or has an exception?

1. Log in to the [DBbrain Console](#) and select **Performance Optimization** on the left sidebar. On the displayed page, select a database at the top and select the **Exception Diagnosis** tab.
2. The "Diagnosis Prompt" column displays the diagnosis event history, including the health level, start time, diagnosis items, and duration. DBbrain performs health checks on the instance regularly.



3. You can click **View Details** or a diagnosis item in the "Diagnosis Prompt" to access the diagnosis details page. Click a diagnosis event in the view, and its details will be displayed below, including the event overview, symptom description, intelligent analysis, and expert suggestions. Based on the expert suggestions, you can perform optimization to solve the database exception and improve the instance performance.

**Event Details**

Item	CPU Utilization	Time Range	2020-06-02 16:42:01
Risk level	<b>Alarm</b>	Duration	7 minutes
Overview	monitoring metrics "cpu_use_rate" alarm, the current value 47.53		

Description    Intelligent Analysis    Optimization Advise

MSG\_SQL\_OPT

Database

SQL Statement

```
select id, pay_date, pay_hour, item_id, item_name, item_group_name,
buyer_group_name, store_code, total_order_num, total_order_amount,
return_sale, item_buy_num, user_count, item_group_name
from t_order_item_sales_hour
where pay_date = '2020-05-24'

and item_id = 357221
```

Table

Advice one    Create Index

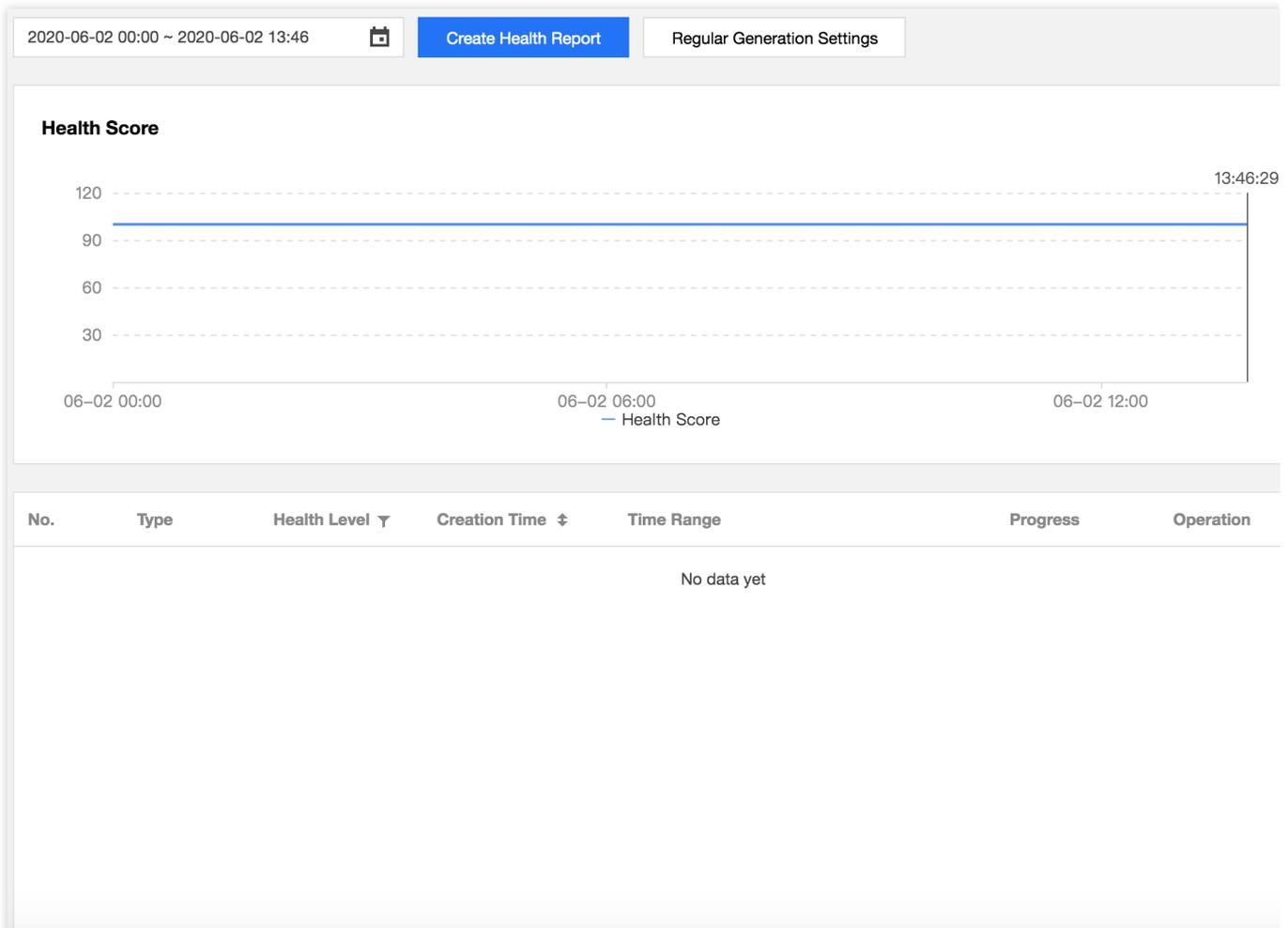
```
alter table `y` . `t_order` . `our` add index index_0(`pay_date`)
```

**How can I receive the TencentDB for MySQL health report regularly?**

Log in to the [DBbrain Console](#) and select **Performance Optimization** on the left sidebar. On the displayed page, select a database at the top and select the **Health Report** tab. You can view health score trends and the problem overview for the specified time period.

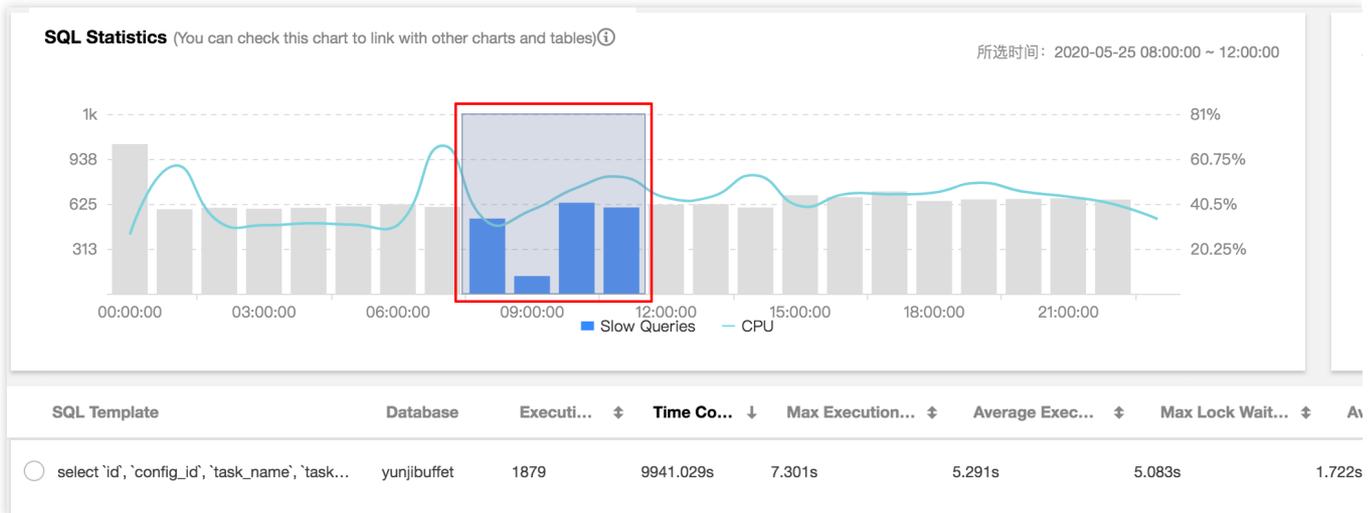
Select the report time range and click **Create Health Report**. After the task is completed, you can view or download the health report for the specified time period.

Click **Regular Generation Settings** to configure the frequency for automatically generating health reports.



## How do I view and optimize MySQL slow logs?

1. Log in to the [DBbrain Console](#), select **Diagnosis and Optimization** on the left sidebar, and select **Slow SQL Analysis** at the top. The "SQL Statistics" section displays the number of slow queries and the CPU utilization of the instance.
2. You can click or drag slow queries in "SQL Statistics", and the aggregated SQL template and execution information will be displayed below. Each column of data can be sorted in ascending or descending order. The duration distribution section on the right displays the distribution of the overall SQL statement execution duration for the selected time period.



3. Click an aggregated SQL template and the SQL optimization suggestions and statistics will be displayed on the right. You can rewrite the SQL statement or add appropriate indexes based on the optimization suggestion to improve the SQL statement execution efficiency and database performance.

Analysis
Statistics

### Execution Sample

SQL Template
SQL Sample

```

select
  id,
  pay_date,
  pay_hour,
  item_id,
  item_name,
  dept_id,
  dept_name,
  buyer_group,
  buyer_group_name,
  modify_time,
  online_time
from
  t_order_item_sales_hour
where
  pay_date = ?
  and item_id = ?;
            
```

### Index Advice

Table `yunjine.t_order_item_sales_hour`

Advice one Create Index

```

alter table
  `yunjine`.`t_order_item_sales_hour`
add
  index `index_0`(`pay_date`);
            
```

SQL Template	Database	Executi...	Time C
<input checked="" type="radio"/> select id, pay_date, pay_hour, item_id, it...	yunjine	150	4104.88
<input type="radio"/> select count(*) from t_goods_category;	yunjine	2	3872.35
<input type="radio"/> load data local infile ? into table yunjine...	yunjine	2	836.324
<input type="radio"/> load data local infile ? into table yunjine...	yunjine	2	619.46s
<input type="radio"/> load data local infile ? into table yunjine...	yunjine	2	587.978
<input type="radio"/> load data local infile ? into table yunjine...	yunjine	2	500.104
<input type="radio"/> load data local infile ? into table yunjine...	yunjine	2	499.736
<input type="radio"/> load data local infile ? into table yunjine...	yunjine	2	488.287

# Product

Last updated : 2022-09-01 18:34:46

## What is DBbrain compatible with?

DBbrain is currently supported for many types of SQL, NoSQL, and NewSQL databases, including TencentDB for MySQL (excluding basic single-node instances), TDSQL-C for MySQL, self-built MySQL, TencentDB for Redis, and TencentDB for MongoDB.

## What features does DBbrain have?

DBbrain provides a rich set of features, such as instance monitoring, audit log analysis (including SQL analysis and security risk identification), slow SQL analysis, real-time session, and health report.

## How do I access DBbrain?

DBbrain can be accessed on both PCs and mobile devices. On a PC, you can access DBbrain through the [DBbrain console](#). On a mobile device, you can access it through the "Tencent Cloud Assistant" WeChat Mini Program or the "TencentDB" WeChat Official Account.