

"Cloud Database Professional"

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1

"Cloud Database Professional"  
 ( , Advanced Serial Data Logger)  
 SQL- : Microsoft Azure, MySQL, PostgreSQL, MariaDB,  
 MongoDB, Amazon Aurora, Amazon Redshift.

( , Microsoft SQLServer MySQL).

SQL

2

Cloud Database Professional :

: Windows 2000 SP4 , 32-x 64-x

5 MB

( ), Advanced Serial Data Logger.

**Microsoft Vista** :

Program Files,

1. ,
2. ;
3. Windows Vista

Google.

3

## Cloud Database Professional

1. ; ( , Advanced Serial Data Logger),

2. ;

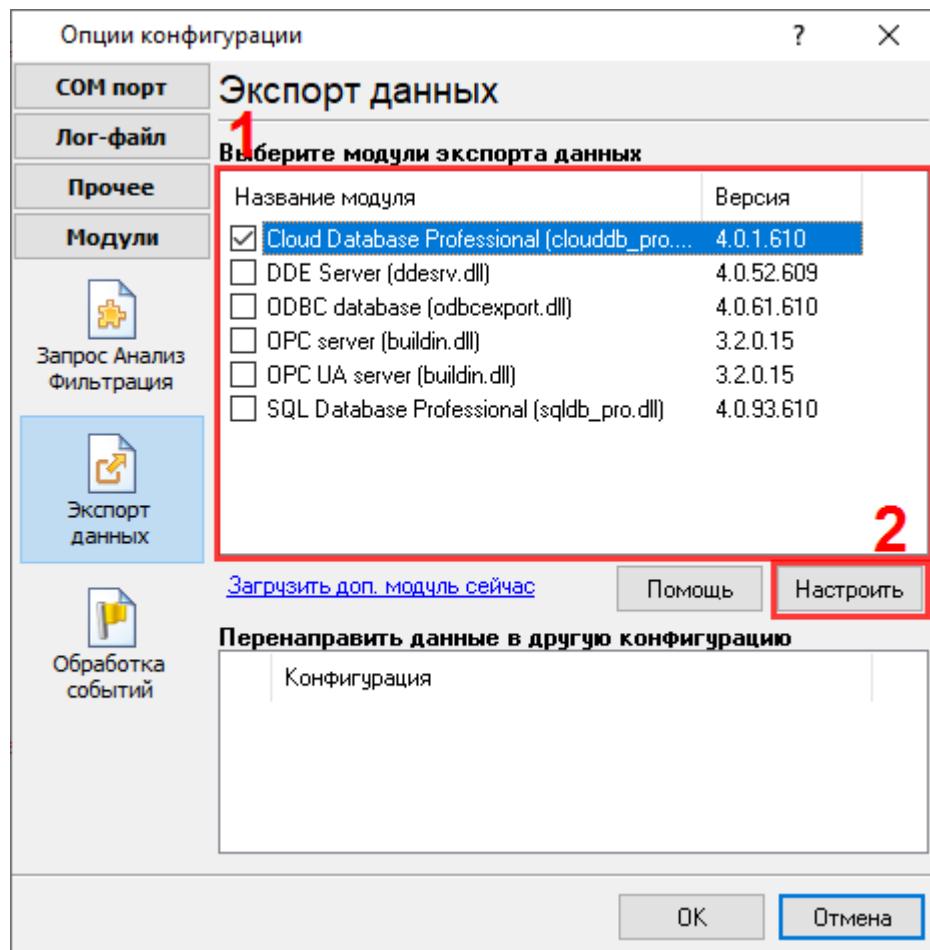
3. ,

Windows;

4. " ";

5. " ".

.1-2.



.1.

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**4****Plug-in -**

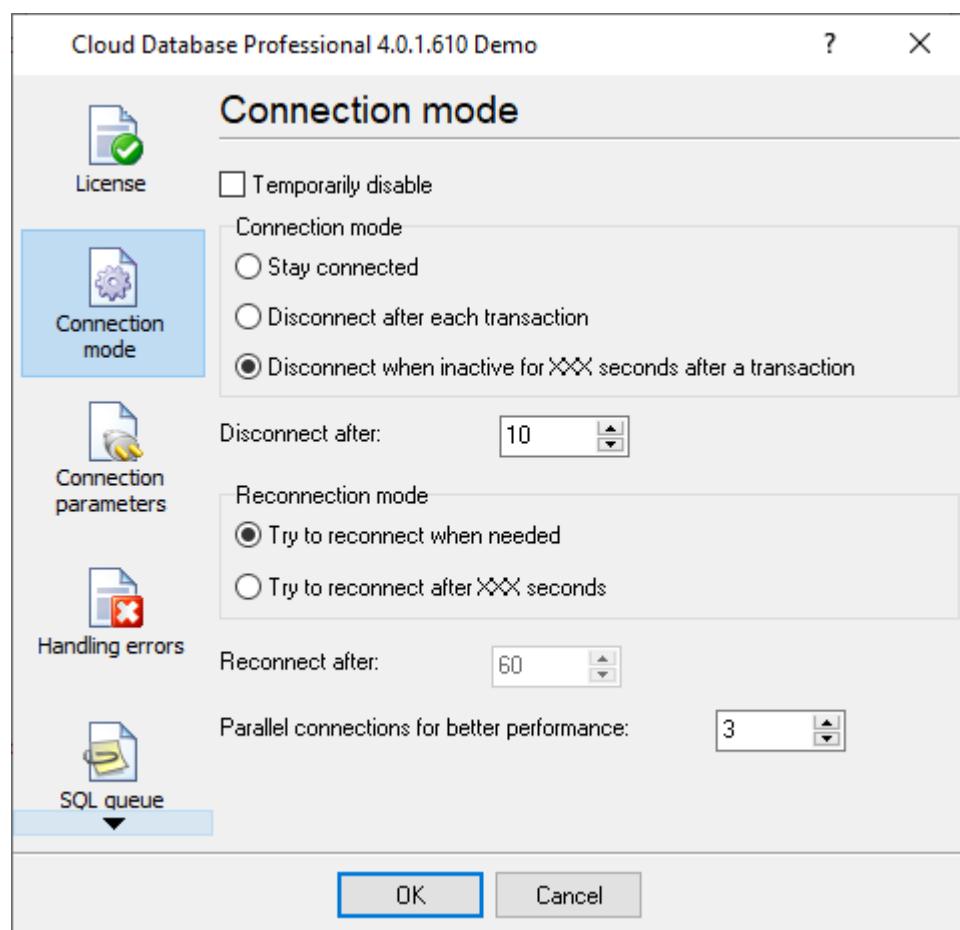
Advanced Serial Data Logger

**5**

1. , , ( , Advanced Serial Data Logger).
2. -> -> ...
3. 
4. "Cloud Database Professional".
5. " " " .

**6**

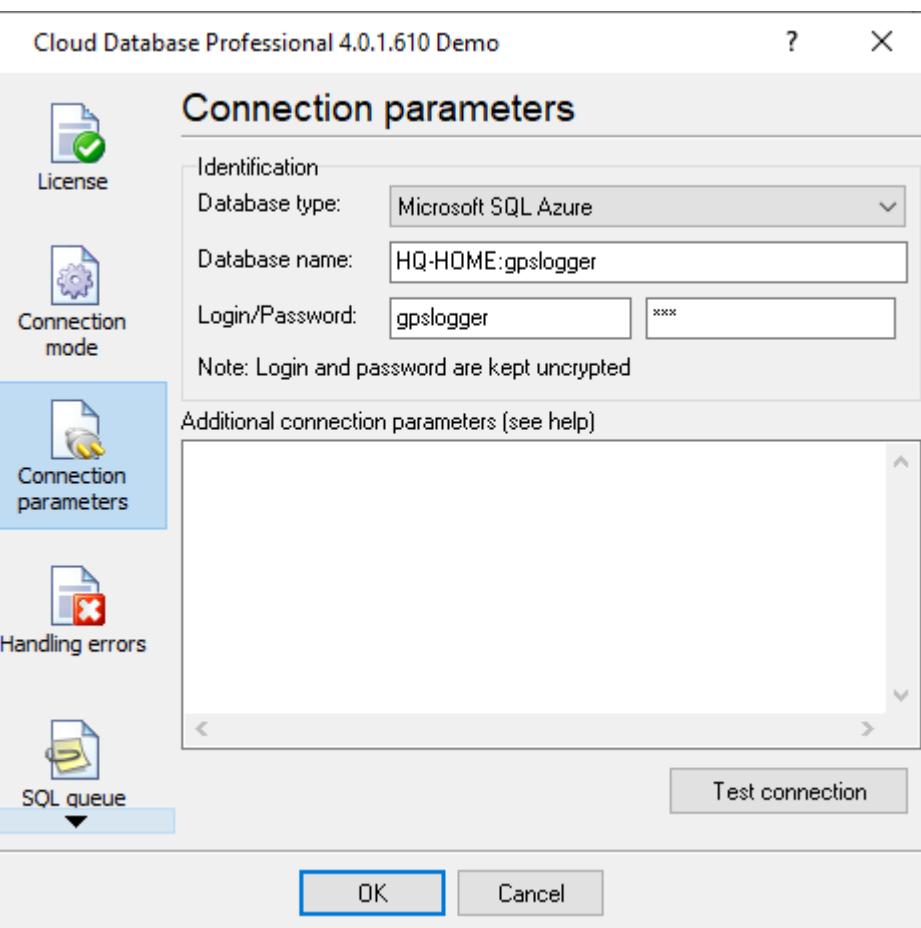
" ( . 1)



.1.

XXX

7



.2.

(

"

").

Aurora:

database-1.cluster-copvutiaj8an.us-east-1.rds.amazonaws.com:mydb

Azure:

aggsoft-test.database.windows.net:test

MongoDB:

cluster0-shard-00-02.j4arl.mongodb.net:test

Redshift

redshift-cluster-1.cm01xvy5h8ea.us-east-1.redshift.amazonaws.com:dev

SERVER PORT			SERVER PORT=8897
ConnectionOptions		MongoDB	ConnectionOptions=ssl=true

## 8 Amazon Aurora Amazon Redshift

The screenshot shows the AWS EC2 Security Groups console. The left sidebar lists various EC2 services like Instances, Images, and Elastic Block Store. The main pane shows the details for a security group named 'sg-2407307f - default'. The 'Details' section includes fields for Security group name (default), Security group ID (sg-2407307f), Description (default VPC security group), and VPC ID (vpc-a62e4ddc). Below this, the 'Inbound rules' tab is selected, showing two entries: one for Redshift (TCP port 5439) and one for PostgreSQL (TCP port 5432). The 'Edit inbound rules' button is visible at the top right of the rule table.

. 3.

**Amazon**

### Amazon Redshift

1. Redshift console --> Clusters  
"Properties".
2. "Network and Security".  
"Publicly Accessible" , "Yes".  
"VPC Security Group",
3. "Security Group" "Inbound".
4. , , "Edit".
5. , , "Add Rule".
- Redshift. "Save".
6. (SSL)  
"require\_ssl" "true". , Config --> Workload management.

## 9 MongoDB

MongoDB Atlas.

1.

The screenshot shows the MongoDB Atlas interface for managing network access. The left sidebar has sections for Project 0, DATA STORAGE (Clusters, Triggers, Data Lake), SECURITY (Database Access, Network Access, Advanced), and Network Access (selected). The main area shows a message: "We are deploying your changes (current action: configuring MongoDB)". Below it, the "Network Access" section is titled "IP Access List". It lists one IP address: "94.158.126.251/32 (includes your current IP address)" with a status of "Active". A green "EDIT" button and a grey "DELETE" button are next to it. A blue "+ ADD IP ADDRESS" button is at the top right of the list table.

. 4. IP

2.

(primary)

The screenshot shows the MongoDB Atlas interface for clusters. The left sidebar has sections for Project 0, DATA STORAGE (Clusters, Triggers, Data Lake), SECURITY (Database Access, Network Access, Advanced), and Clusters (selected). The main area shows a cluster named "Cluster0" with details: VERSION 4.4.6 and REGION AWS N. Virginia. It lists three nodes under "NODES": "cluster0-shard-00-00.j4arl..." (SECONDARY), "cluster0-shard-00-01.j4arl..." (SECONDARY), and "cluster0-shard-00-02.j4arl..." (PRIMARY). A red box highlights the primary node. To the right, a callout box says "This is a Shared Tier Cluster" with a note about upgrading. A chart titled "Operations Last 6 Hours" is also visible.

. 5.

3.

The screenshot shows the MongoDB Atlas interface. On the left, there's a sidebar with 'Project 0' selected. Under 'SECURITY', it lists 'Database Access', 'Network Access', and 'Advanced'. Under 'Database Access', there's a '+ Create Database' button and a 'NAMESPACES' search bar. A list of databases is shown, including 'sample\_airbnb', 'sample\_analytics', 'sample\_geospatial', 'sample\_mflix', 'sample\_restaurants', 'sample\_supplies', 'sample\_training', 'sample\_weatherdata', and 'test'. Under 'test', the 'barcode\_data' collection is selected. The main panel shows the 'test.barcode\_data' collection with a collection size of 210B, 2 total documents, and 36KB indexes total size. It includes tabs for 'Find', 'Indexes', 'Schema Anti-Patterns', 'Aggregation', and 'Search'. A 'FILTER' button with the query '("filter": "example")' is present. The results section shows two documents:

```

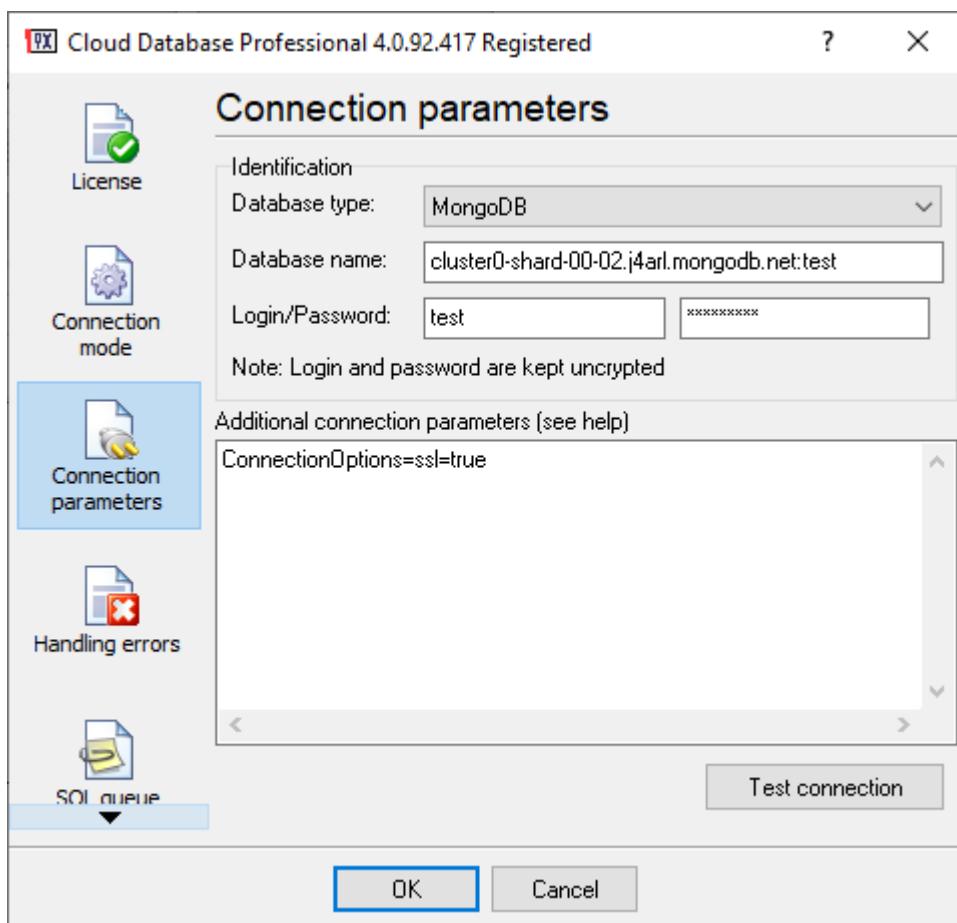
_id: ObjectId("60a66e9dbd422a17aa14110b")
DATA_SOURCE: "Test"
DATE_TIME_STAMP: "2018-12-18T11:11:33.000"
CODE: "10061"

_id: ObjectId("60a66e9dbd422a17aa1906df")
DATA_SOURCE: "Test"
DATE_TIME_STAMP: "2018-12-18T11:11:33.000"

```

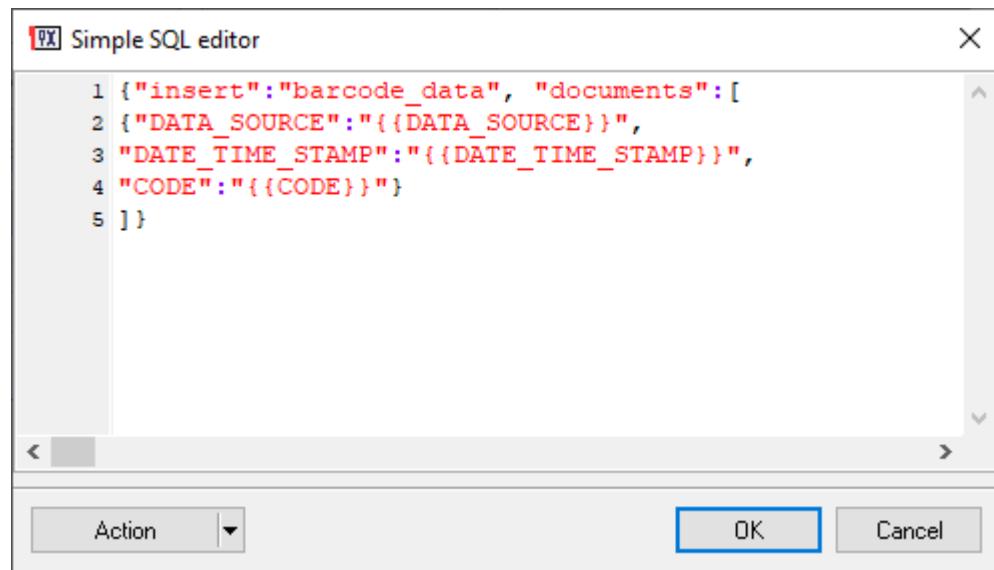
. 6.

4.



. 7.

5. "INSERT" MongoDB.

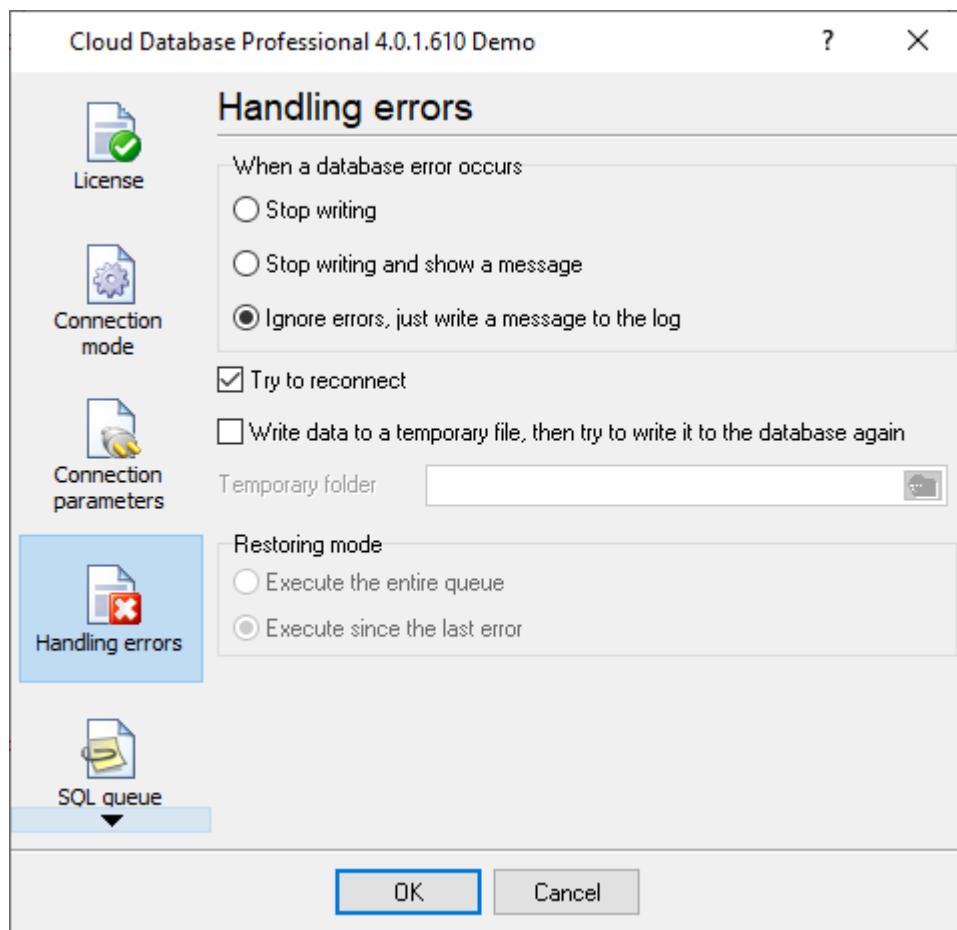


. 8.

10

(PRIMARY KEY)  
(FOREIGN KEY),

" ( . 9)



. 9.

1.

2.

3.

4.

( ), . . .  
", ", "  
", , , ,  
", , , , ,  
SQL  
( , )  
, , , , ,  
", ", "  
SQL  
( , )  
SQL  
SQL ,  
SQL  
SELECT ,  
INSERT  
SQL  
, , ,  
, , , ,  
, Advanced Serial Data Logger.  
;

**11****SQL**

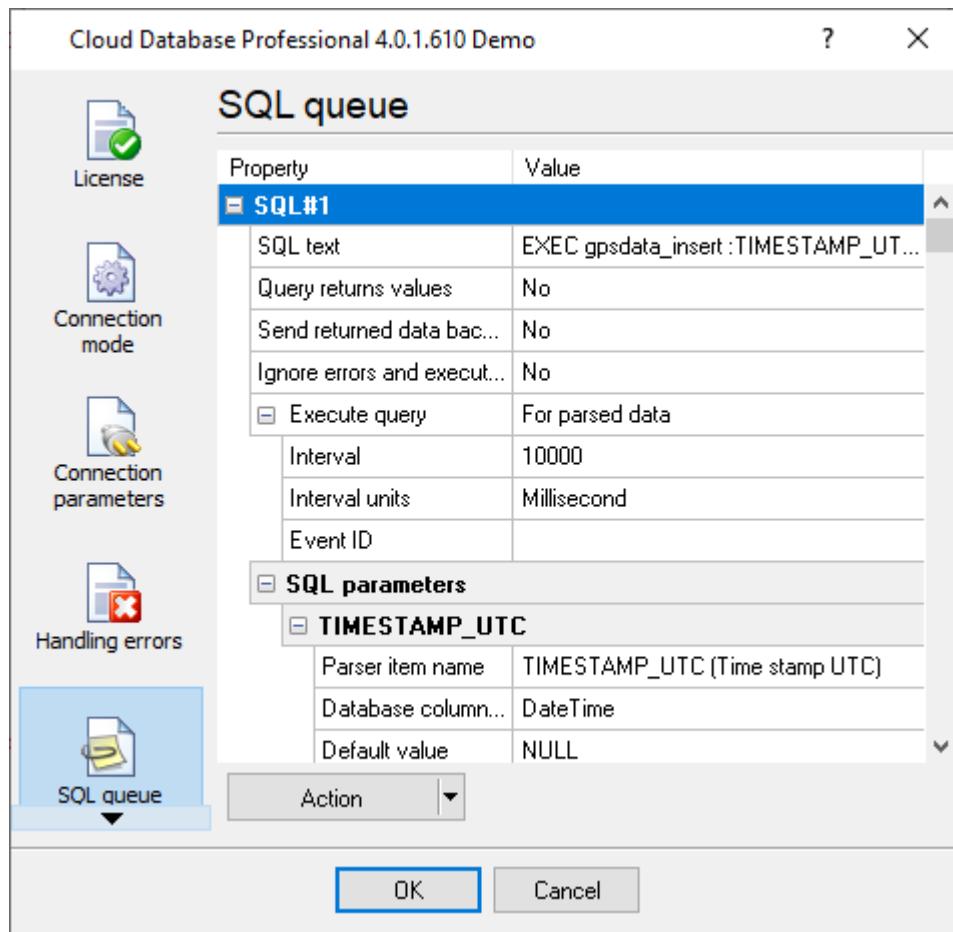
INSERT  
INSERT  
SQL ( , ),  
SQL

SELECT

SQL

SQL

SQL" ( . 10)



. 10.

SQL

" " SQL . , , SQL  
" ( . 10) SQL SQL

SQL - SQL

SQL - SQL

SQL , , SQL - SQL

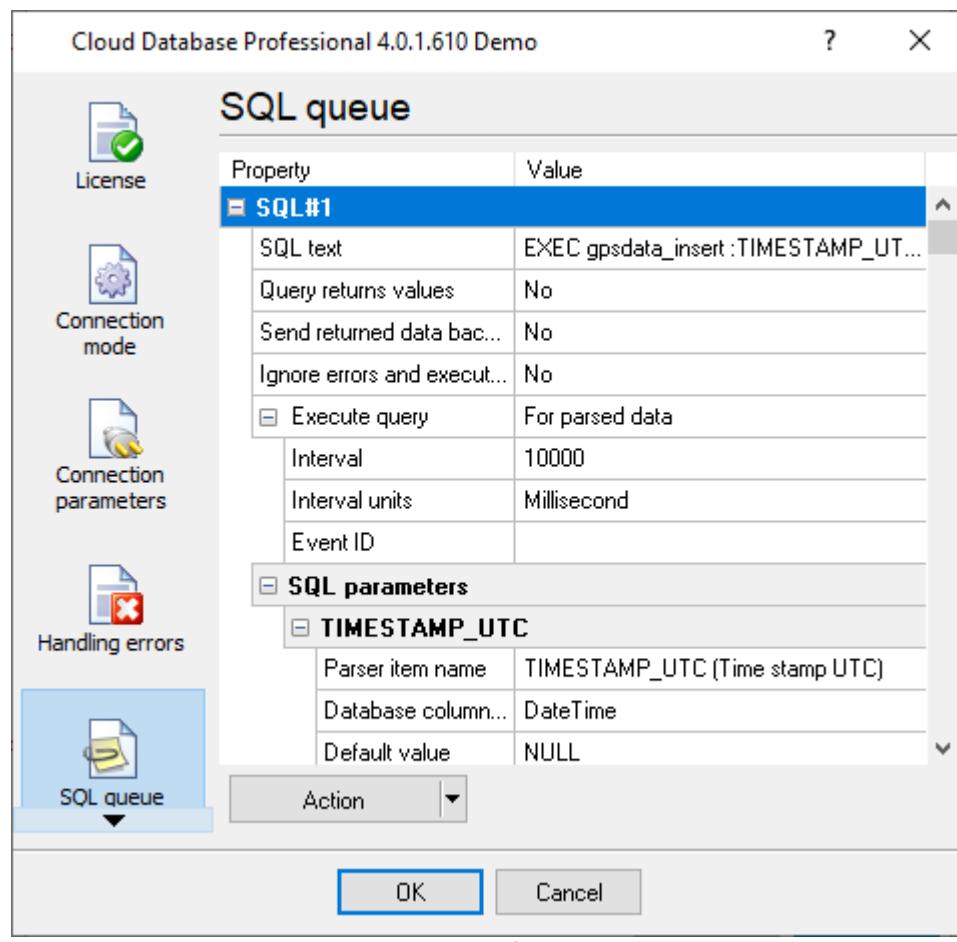
SQL -

SQL

12

**SQL**

SQL  
", SQL SQL ( . 11)



.11. SQL

SQL - " " SQL SQL SQL  
 SQL ( . 12). SQL SQL SQL  
 SQL SQL "P1". SQL SQL ( )  
 , SQL / " " SQL  
 "OK"

( , SELECT).



. 12. SQL

" SQL" ( . 11).  
( )  
SQL".

3 :  
- , ( ) (

Advanced Serial Data Logger).

NULL DEFAULT,  
NULL

" "

,  
SQL :  
;

select (max(id)+1) as max\_id from test\_datas

ID,  
MAX\_ID

max\_id.  
( ).  
MAX\_ID  
SQL null ( , test\_datas , MAX\_ID  
P1 ( . . 12)  
1.

SQL

- ,  
;

-,  
null.