



"Cloud Database Professional"

1		1
2		1
3	Cloud Database Professional	2
4		3
5		3
6		3
7		5
8	Amazon Aurora Amazon Redshift	7
9	MongoDB	8
10		10
11	SQL	12
12	SQL	14

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.

4

Plug-in -

Advanced Serial Data Logger

5

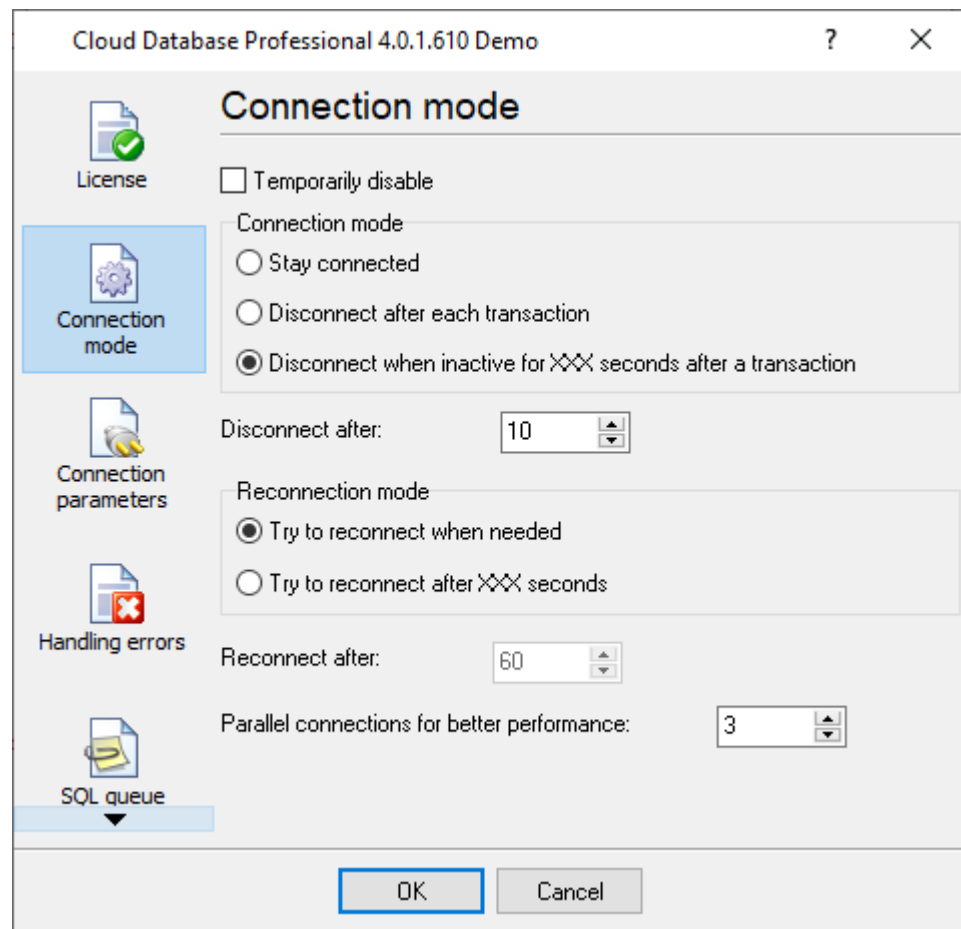
1. Data Logger).
2.  -> ...
3. " - "
4. Professional". "Cloud Database
5. " " "

6

" (. 1)

' " " " " "

" "

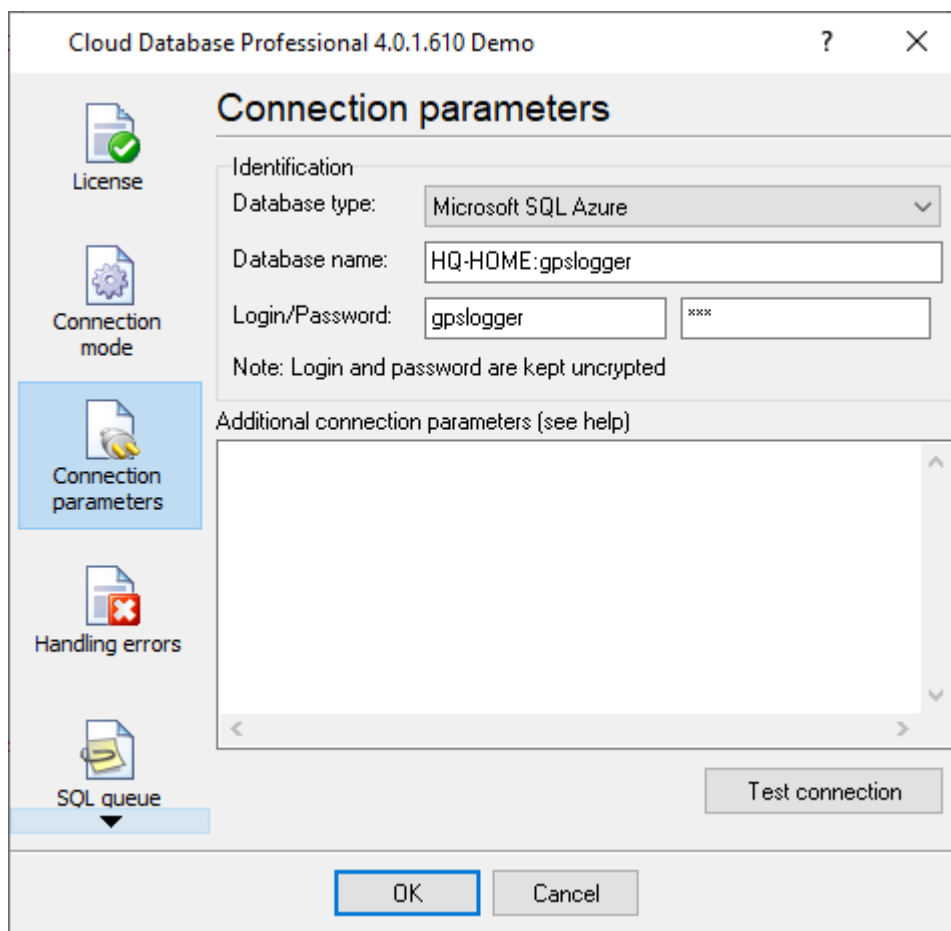


.1.

XXX

7

" (.2)



. 2.

" " (" ")

" " :

- : - -
:

Aurora:
database-1.cluster-copwtiaj8an.us-east-1.rds.amazonaws.com:mydb

Azure:
aggsoft-test.database.windows.net:test

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

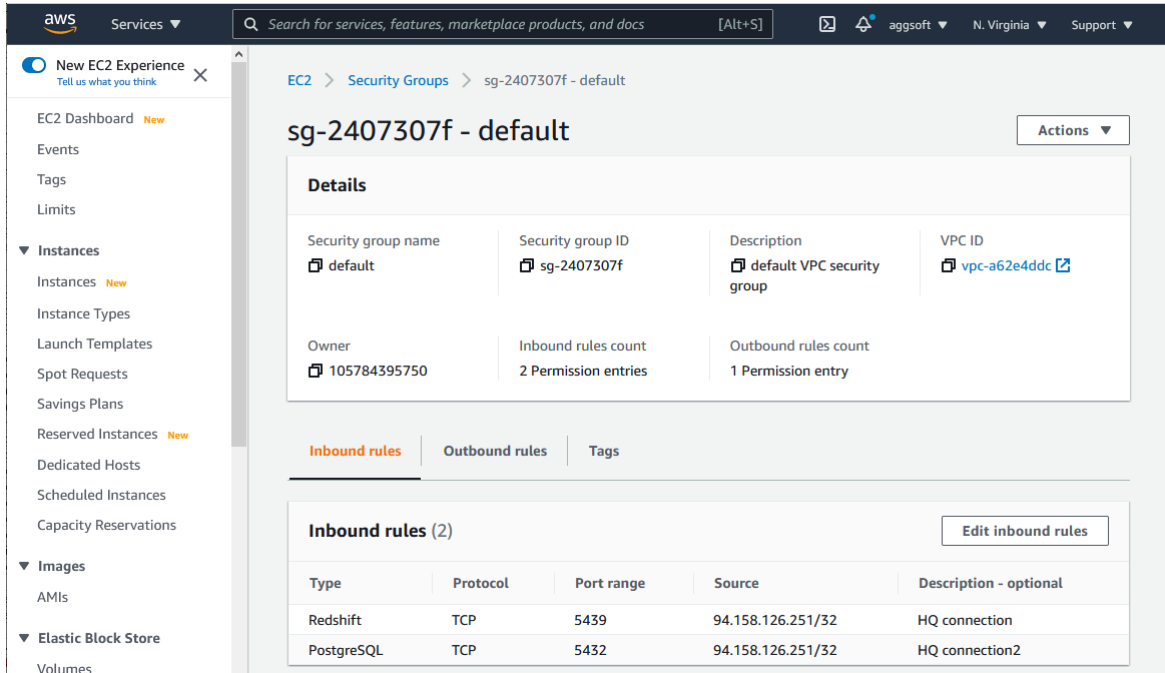
Redshift :
redshift-cluster-1.cm01xvy5h8ea.us-east-1.redshift.amazonaws.com:dev

" " .
" " .
,

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

, " " ,
()

8 Amazon Aurora Amazon Redshift



. 3. Amazon

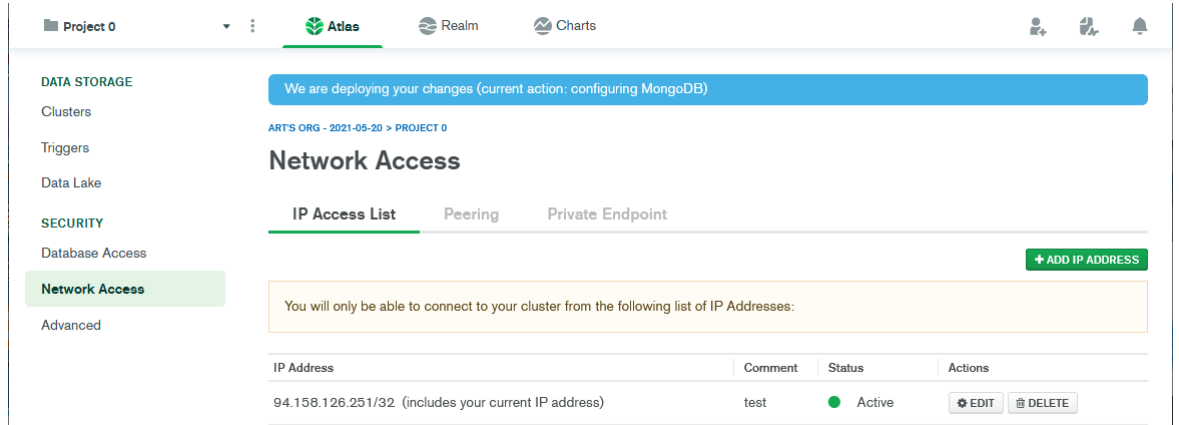
Amazon Redshift

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

9 MongoDB

MongoDB Atlas.

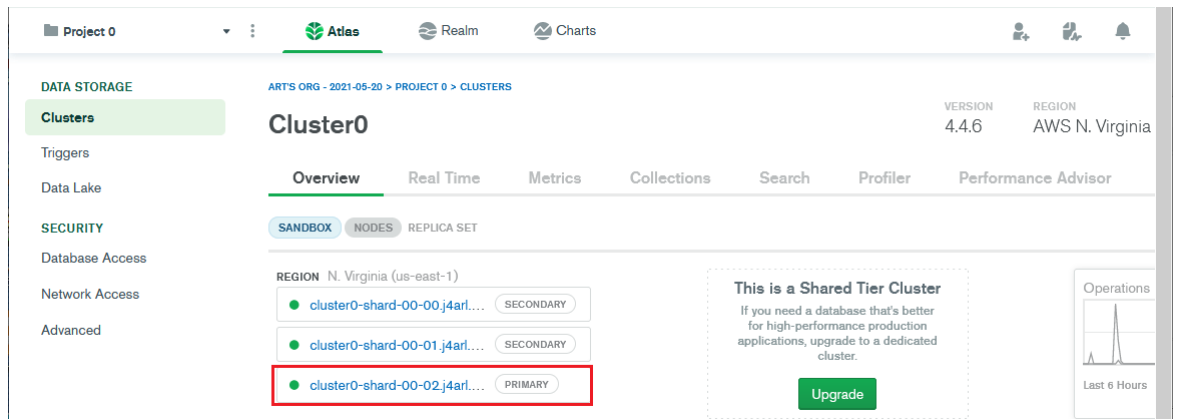
1.



. 4. IP

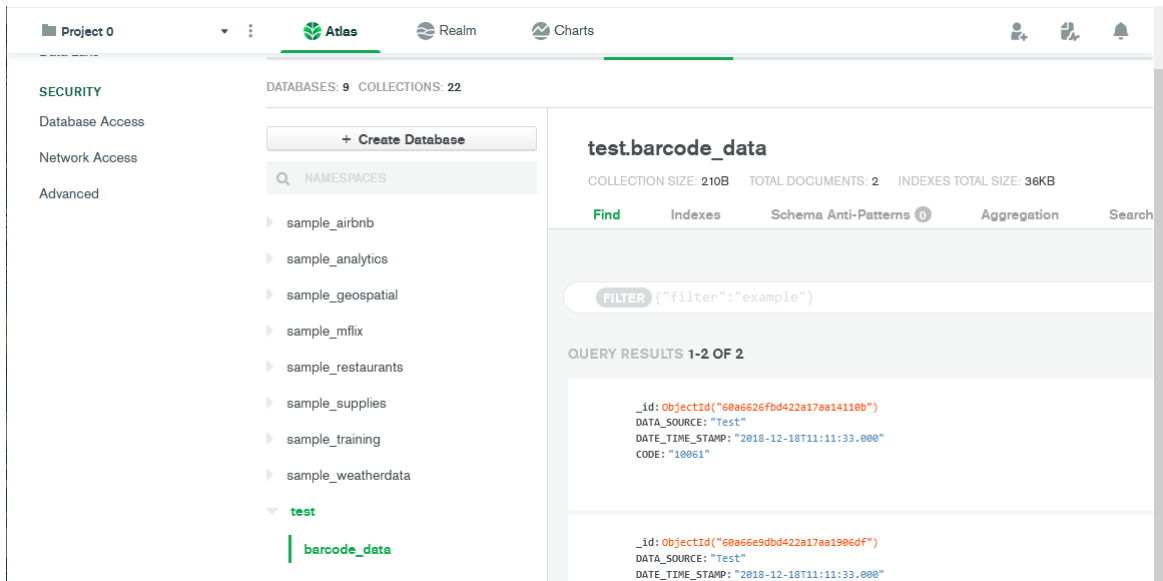
2.

(primary)



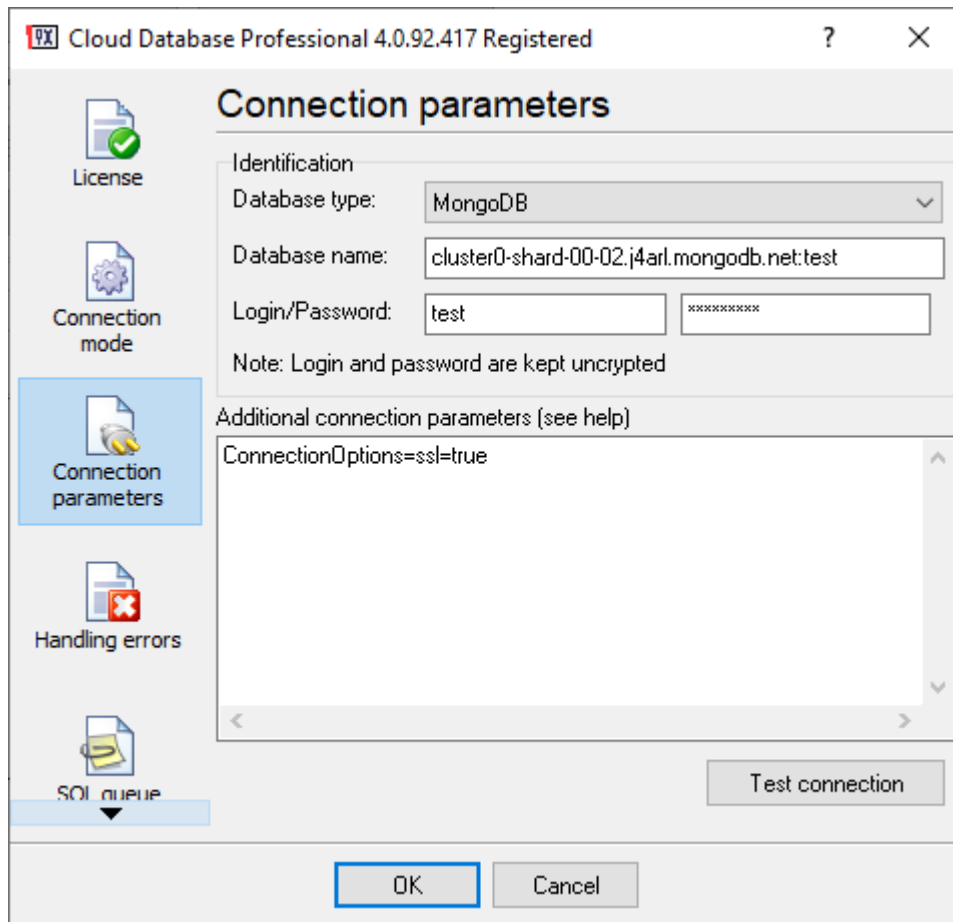
. 5.

3.



. 6.

4.



. 7.

5. "INSERT" MongoDB.

```

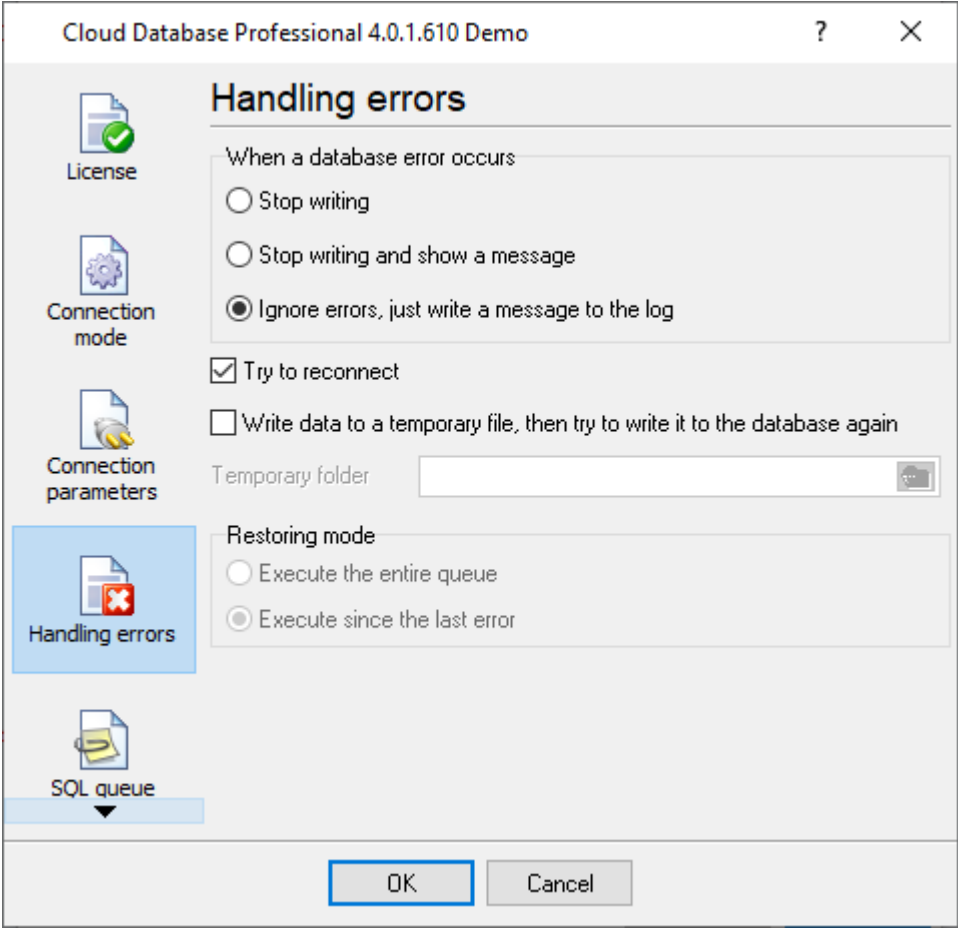
1 {"insert":"barcode_data", "documents":[
2 {"DATA_SOURCE":"{{DATA_SOURCE}}",
3 "DATE_TIME_STAMP":"{{DATE_TIME_STAMP}}",
4 "CODE":"{{CODE}}"}
5 ]}

```

. 8.

10

. , , : (PRIMARY KEY)
 , (FOREIGN KEY) ,
 .
 " , "
 " " "
 " (.9)



. 9.

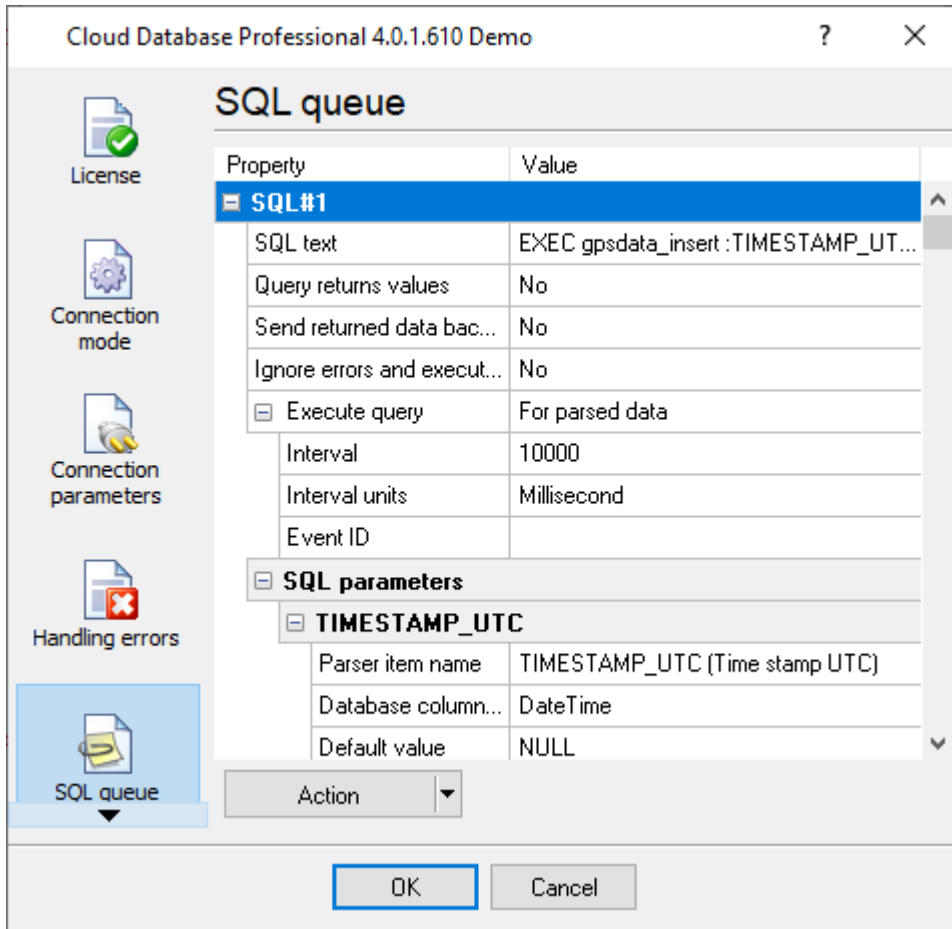
1.

2.

3.

4.

SELECT
SQL
" SQL" (. 10)



. 10. SQL

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

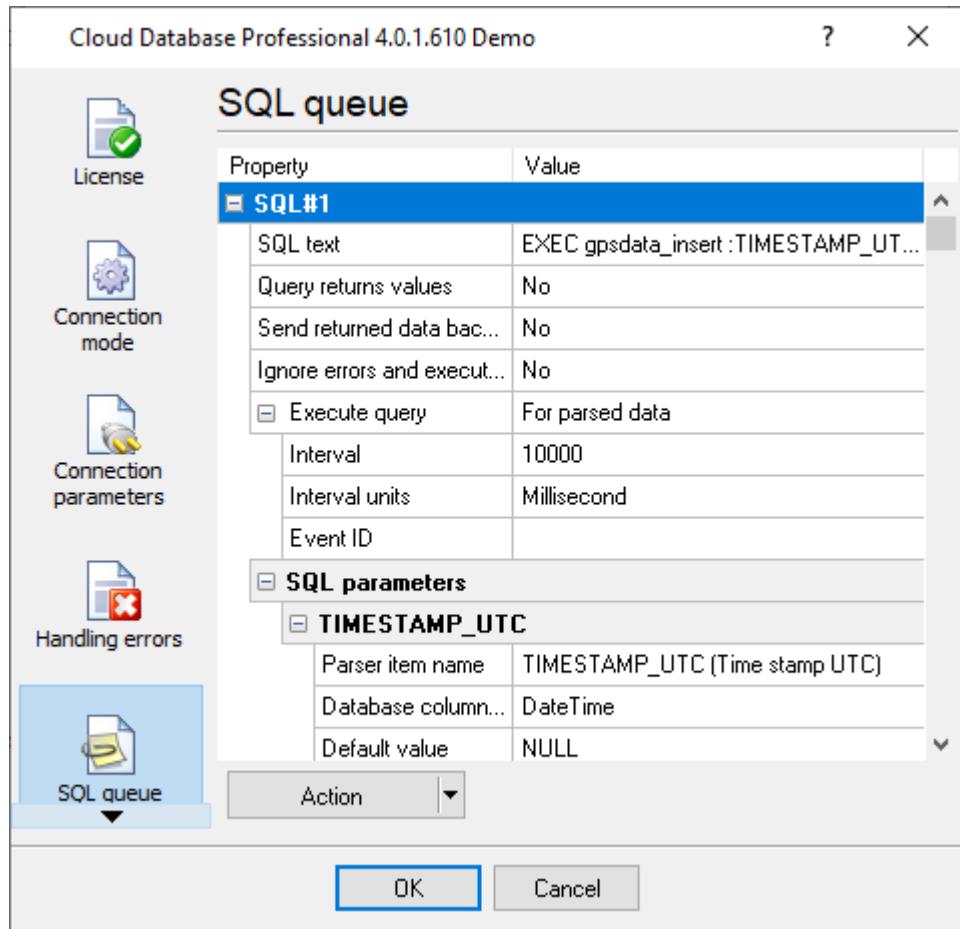
SQL

12

SQL

SQL

SQL (. 11)



. 11. SQL

SQL -

SQL

SQL

SQL (. 12).

SQL ":P1"

"P1". ()

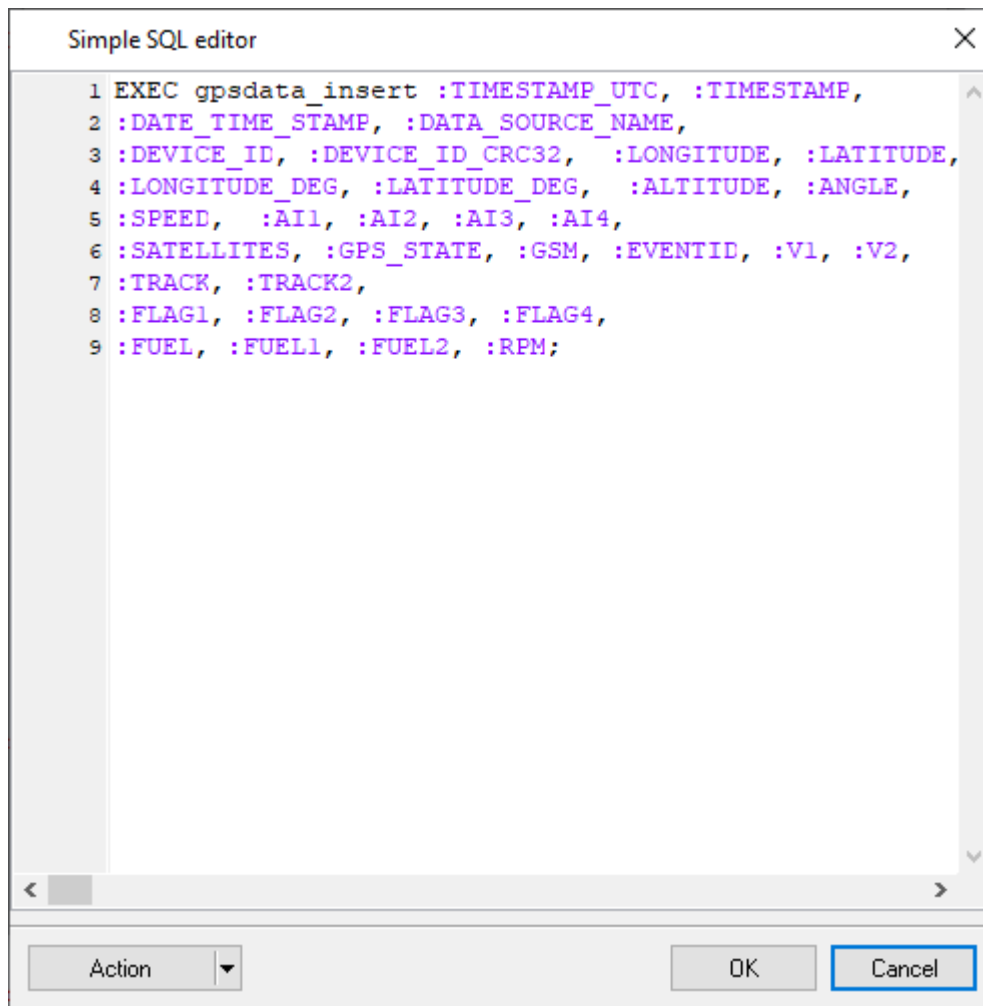
SQL / " "

"OK"

(, SELECT).

SQL

SQL



```
Simple SQL editor
1 EXEC gpsdata_insert :TIMESTAMP_UTC, :TIMESTAMP,
2 :DATE_TIME_STAMP, :DATA_SOURCE_NAME,
3 :DEVICE_ID, :DEVICE_ID_CRC32, :LONGITUDE, :LATITUDE,
4 :LONGITUDE_DEG, :LATITUDE_DEG, :ALTITUDE, :ANGLE,
5 :SPEED, :AI1, :AI2, :AI3, :AI4,
6 :SATELLITES, :GPS_STATE, :GSM, :EVENTID, :V1, :V2,
7 :TRACK, :TRACK2,
8 :FLAG1, :FLAG2, :FLAG3, :FLAG4,
9 :FUEL, :FUEL1, :FUEL2, :RPM;
```

Action [v] OK Cancel

. 12. SQL

```

SQL
" SQL" ( . 11).
( )
" SQL".
3 :
- , ( ) (
Advanced Serial Data Logger).
: NULL DEFAULT,
NULL
" ".
SQL :
select (max(id)+1) as max_id from test_datas
max_id. ID, MAX_ID
( , ). MAX_ID
SQL test_datas MAX_ID
null ( , test_datas ),
1. P1 ( . . 12)
SQL
- ,
.
- , null.

```