

# Quick Start on Demo Environment

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## Contents

### 1 Prepare Environment

Since two client scripts are written in Python, you should setup basic python environment. And install following two dependencies:

```
sudo pip install requests click prettytable
```

### 2 Ingestion

First, create a table "demo\_table"

```
python ingestion_client.py create \  
-h 52.27.67.237 \  
-u demo -a VbJSMjQ2MTIyNjY2MjJS01HKTAEKleom \  
-d demodb \  
-t demo_table
```

Then, check the status if the ingestion agent is up.

```
python ingestion_client.py status \  
-h 52.27.67.237 \  
-u demo -a VbJSMjQ2MTIyNjY2MjJS01HKTAEKleom \  
-d demodb \  
-t demo_table
```

Now, we can POST the data chunk by chunk. Here, we use 10 lines for each request.

```
python ingestion_client.py postfile \
    -h 52.27.67.237 \
    -u demo -a VbJSMjQ2MTIyNjY2MjJS0lHKTAEKleom \
    -d demodb \
    -t demo_table \
    -f wc.sample.json \
    --lines 10
```

### 3 Create/Update Schema

And, you can also check the code in "create\_update\_schema.py" for the schema definition.

```
python create_update_schema.py \
    -h 52.27.67.237 \
    -u demo -a VbJSMjQ2MTIyNjY2MjJS0lHKTAEKleom \
    -d demodb \
    -t demo_table
```

### 4 Query Example

You can query using "query.py"

#### 4.1 Hive Engine

```
python query.py \
    -h 52.27.67.237 \
    -e hive \
    -d default \
    -q "SELECT uuid,ssid,source_host FROM demo_table limit 10"
```

The output will look like this:

```
host:52.27.67.237, port:18789, engine:hive, db:default, query:SELECT uuid,ssid,source_host
+-----+-----+-----+
|          uuid          |          ssid          | source_host |
+-----+-----+-----+
| fc2afe6d-e715-4585-a1f9-27776c4bfc7b | 913klbjvregia61mve4g011617 | cax-web03.aws.com |
| 573f1314-fd4d-4a04-a919-2132961bfee2 | lvped4ges659e7f8933lkr1mo4 | cax-web03.aws.com |
| 74645fbe-82e0-4408-a37d-dd8d96564ab2 | 0hlatnug02m6om1r3iugaeqqh6 | cax-web03.aws.com |
```

aab85085-1779-4056-a7bd-bbce747fdfff	msccisclv1d30jepd06o4nsur7	cax-web02.aws.cor
e5fc8dfd-9459-4ae0-9aa5-30e2f3f20d3a	52qs5dg93o498t6hlk1ni7snn2	cax-web04.aws.cor
6ead7616-6bd8-4cc1-861e-c5be2e6a7202	b9dvcc6frffo6116o3l0n7atq5	cax-web03.aws.cor
2157966b-5c2e-4913-9bad-0613c07c8116	d58ptgb43tgni69seoe44e1216	cax-web02.aws.cor
06c8d39d-bccd-4ab6-b56d-9c0829e55426	4fd022k4b4n3i15ha8q5b1qmd3	cax-web01.aws.cor
f119a607-c76d-4b93-8f52-d4f5c32ee648	hgkoot1e1hgpj7lb8q93tvafb0	cax-web03.aws.cor
4fd380eb-21cb-4aa4-9332-4d4b8fb19f72	dgk5on6k2bqbm0cav5441t0as3	cax-web04.aws.cor

+-----+-----+-----+  
Query DONE

## 4.2 MPP Engine

```
python query.py \
  -h 52.27.67.237 \
  -e mpp \
  -d demo \
  -q "SELECT uuid,ssid,source_host FROM demo_table limit 10"
```

The output will look like this:

host:52.27.67.237, port:18789, engine:mpp, db:demo, query:SELECT uuid,ssid,source\_host  
Query results now, status:Processing  
Query results now, status:Processing

uuid	ssid	source_host
01146ab6-aadb-423d-81b8-ea0051ddadda	eq751c4d1i21tgagfc5dfh21e6	cax-web04.aws.cor
f0583231-a531-498a-8356-d285cc603d3f	dieg9ok0j2qmvgpdtntqpt85to0	cax-web04.aws.cor
cd5febc6-db26-499a-bb13-98ed4f2a3091	qhon2877qnag3r14efhhqfd3u2	cax-web03.aws.cor
b69c49e9-0220-431f-a490-128eef90348c	vgko93g93qd6qufql1fgf3os13	cax-web02.aws.cor
b4b39e53-da3b-42dc-8871-7147fec26506	imq9av4n9arsiru200kutkdl131	cax-web04.aws.cor
99216648-2b1f-49d8-9f7e-c94d8ffe84a2	n4fm84lj3ij8f4seps1o4ksbs2	cax-web03.aws.cor
a1ac0528-d1c8-4ea0-bf0c-2d166328f613	2k2p6ma4vspqmk8ksa9uit0b82	cax-web01.aws.cor
de1a7c69-9753-4083-847b-a367940b6f99	igrpuc3l21gki198jaii0sqk82	cax-web04.aws.cor
f3146326-5fe2-4613-814f-d2e70fb6cbfb	orkde6qnhqs9ns4cr2rp2els81	cax-web02.aws.cor
95790330-2ab2-4388-b82b-389f6816f386	igeo5ml8d67l1nd0kb3ov5kgn0	cax-web05.aws.cor

+-----+-----+-----+  
Query DONE

## 5 Example Queries

### 5.1 MPP

```
SELECT COUNT(*)  
FROM demo_table
```

```
SELECT COUNT(e) AS n_e,ssid  
FROM demo_table  
GROUP BY ssid  
ORDER BY n_e;
```

### 5.2 Hive

```
SELECT COUNT(*)  
FROM demo_table
```

```
SELECT COUNT(e) AS n_e,ssid  
FROM demo_table  
GROUP BY ssid  
ORDER BY n_e;
```