

MongoDB Foreign Data Wrapper Guide Version 5.2.8

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1 What's New

The following features are added to create MongoDB Foreign Data Wrapper 5.2.8:

- Support for EDB Postgres Advanced Server 13.
- Support for Ubuntu 20.04 LTS platform.

2 Requirements Overview

Supported Versions

The MongoDB Foreign Data Wrapper is certified with EDB Postgres Advanced Server 9.5 and above.

Supported Platforms

The MongoDB Foreign Data Wrapper is supported on the following platforms:

Linux x86-64

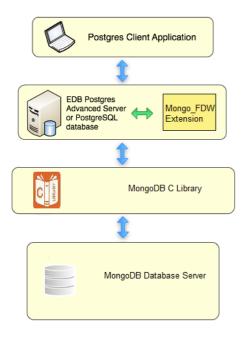
- RHEL 8.x/7.x
- CentOS 8.x/7.x
- OEL 8.x/7.x
- Ubuntu 20.04/18.04 LTS
- Debian 10.x/9.x

Linux on IBM Power8/9 (LE)

• RHEL 7.x

3 Architecture Overview

The MongoDB data wrapper provides an interface between a MongoDB server and a Postgres database. It transforms a Postgres statement (SELECT/INSERT/DELETE/UPDATE) into a query that is understood by the MongoDB database.



4 Installing the MongoDB Foreign Data Wrapper

The MongoDB Foreign Data Wrapper can be installed with an RPM package. During the installation process, the installer will satisfy software prerequisites.

Installing the MongoDB Foreign Data Wrapper using an RPM Package

You can install the MongoDB Foreign Data Wrapper using an RPM package on the following platforms:

- RHEL 7
- RHEL 8
- CentOS 7
- CentOS 8

On RHEL 7

Before installing the MongoDB Foreign Data Wrapper, you must install the following prerequisite packages, and request credentials from EDB:

Install the epel-release package:

yum -y install https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm

Enable the optional, extras, and HA repositories:

subscription-manager repos --enable "rhel-*-optional-rpms" --enable "rhel-*-extras-rpms" --enable "rhel-ha-for-rhel-*-server-rpms"

You must also have credentials that allow access to the EDB repository. For information about requesting credentials, visit:

https://info.enterprisedb.com/rs/069-ALB-339/images/Repository%20Access%2004-09-2019.pdf

After receiving your repository credentials:

- 1. Create the repository configuration file.
- 2. Modify the file, providing your user name and password.
- 3. Install edb-as<xx>-mongo fdw.

Creating a Repository Configuration File

To create the repository configuration file, assume superuser privileges, and invoke the following command:

yum -y install https://yum.enterprisedb.com/edbrepos/edb-repo-latest.noarch.rpm

The repository configuration file is named edb.repo. The file resides in /etc/yum.repos.d.

Modifying the file to provide your user name and password

After creating the edb.repo file, use your choice of editor to ensure that the value of the enabled parameter is 1, and replace the username and password placeholders in the baseurl specification with the name and password of a registered EDB user.

[edb]
name=EnterpriseDB RPMs \$releasever - \$basearch

baseurl=https://<username>:
<password>@yum.enterprisedb.com/edb/redhat/rhel-\$releasever-\$basearch
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/ENTERPRISEDB-GPG-KEY

Installing the MongoDB Foreign Data Wrapper

After saving your changes to the configuration file, use the following command to install the MongoDB Foreign Data Wrapper:

yum install edb-as<xx>-mongo_fdw

where xx is the server version number.

When you install an RPM package that is signed by a source that is not recognized by your system, yum may ask for your permission to import the key to your local server. If prompted, and you are satisfied that the packages come from a trustworthy source, enter y, and press Return to continue.

During the installation, yum may encounter a dependency that it cannot resolve. If it does, it will provide a list of the required dependencies that you must manually resolve.

On RHEL 8

Before installing the MongoDB Foreign Data Wrapper, you must install the following prerequisite packages, and request credentials from EDB:

Install the epel-release package:

dnf -y install https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm

Enable the codeready-builder-for-rhel-8-*-rpms repository:

ARCH=\$(/bin/arch) subscription-manager repos --enable "codeready-builder-for-rhel-8-\${ARCH}-rpms"

You must also have credentials that allow access to the EDB repository. For information about requesting credentials, visit:

https://info.enterprisedb.com/rs/069-ALB-339/images/Repository%20Access%2004-09-2019.pdf

After receiving your repository credentials:

- 1. Create the repository configuration file.
- 2. Modify the file, providing your user name and password.
- 3. Install edb-as<xx>-mongo fdw.

Creating a Repository Configuration File

To create the repository configuration file, assume superuser privileges, and invoke the following command:

dnf -y https://yum.enterprisedb.com/edbrepos/edb-repo-latest.noarch.rpm

The repository configuration file is named edb.repo. The file resides in /etc/yum.repos.d.

Modifying the file to provide your user name and password

After creating the edb.repo file, use your choice of editor to ensure that the value of the enabled parameter is 1, and replace the username and password placeholders in the baseurl specification with the name and password of a registered EDB user.

[edb]

name=EnterpriseDB RPMs \$releasever - \$basearch

baseurl=https://<username>:

<password>@yum.enterprisedb.com/edb/redhat/rhel-\$releasever-\$basearch

enabled=1

gpgcheck=1

gpgkey=file:///etc/pki/rpm-gpg/ENTERPRISEDB-GPG-KEY

Installing the MongoDB Foreign Data Wrapper

After saving your changes to the configuration file, use the following command to install the MongoDB Foreign Data Wrapper:

dnf install edb-as<xx>-mongo_fdw

When you install an RPM package that is signed by a source that is not recognized by your system, yum may ask for your permission to import the key to your local server. If prompted, and you are satisfied that the packages come from a trustworthy source, enter y, and press Return to continue.

During the installation, yum may encounter a dependency that it cannot resolve. If it does, it will provide a list of the required dependencies that you must manually resolve.

On CentOS 7

Before installing the MongoDB Foreign Data Wrapper, you must install the following prerequisite packages, and request credentials from EDB:

Install the epel-release package:

yum -y install https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm

Note

You may need to enable the [extras] repository definition in the CentOS-Base.repo file (located in /etc/yum.repos.d).

You must also have credentials that allow access to the EDB repository. For information about requesting credentials, visit:

https://info.enterprisedb.com/rs/069-ALB-339/images/Repository%20Access%2004-09-2019.pdf

After receiving your repository credentials you can:

- 1. Create the repository configuration file.
- 2. Modify the file, providing your user name and password.
- 3. Install edb-as<xx>-mongo_fdw.

Creating a Repository Configuration File

To create the repository configuration file, assume superuser privileges, and invoke the following command:

yum -y install https://yum.enterprisedb.com/edbrepos/edb-repo-latest.noarch.rpm

The repository configuration file is named edb.repo. The file resides in /etc/yum.repos.d.

Modifying the file to provide your user name and password

After creating the edb.repo file, use your choice of editor to ensure that the value of the enabled parameter is 1, and replace the username and password placeholders in the baseurl specification with the name and password of a registered EDB user.

[edb]

name=EnterpriseDB RPMs \$releasever - \$basearch baseurl=https://<username>:

<password>@yum.enterprisedb.com/edb/redhat/rhel-\$releasever-\$basearch
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/ENTERPRISEDB-GPG-KEY

Installing the MongoDB Foreign Data Wrapper

After saving your changes to the configuration file, use the following command to install the MongoDB Foreign Data Wrapper:

yum install edb-as<xx>-mongo_fdw

where xx is the server version number.

When you install an RPM package that is signed by a source that is not recognized by your system, yum may ask for your permission to import the key to your local server. If prompted, and you are satisfied that the packages come from a trustworthy source, enter y, and press Return to continue.

During the installation, yum may encounter a dependency that it cannot resolve. If it does, it will provide a list of the required dependencies that you must manually resolve.

On CentOS 8

Before installing the MongoDB Foreign Data Wrapper, you must install the following prerequisite packages, and request credentials from EDB:

Install the epel-release package:

dnf -y install https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm

Enable the **PowerTools** repository:

dnf config-manager --set-enabled PowerTools

You must also have credentials that allow access to the EDB repository. For information about requesting credentials, visit:

https://info.enterprisedb.com/rs/069-ALB-339/images/Repository%20Access%2004-09-2019.pdf

After receiving your repository credentials:

1. Create the repository configuration file.

- 2. Modify the file, providing your user name and password.
- Install edb-as<xx>-mongo_fdw.

Creating a Repository Configuration File

To create the repository configuration file, assume superuser privileges, and invoke the following command:

dnf -y install https://yum.enterprisedb.com/edbrepos/edb-repo-latest.noarch.rpm

The repository configuration file is named edb.repo. The file resides in /etc/yum.repos.d.

Modifying the file to provide your user name and password

After creating the edb.repo file, use your choice of editor to ensure that the value of the enabled parameter is 1, and replace the username and password placeholders in the baseurl specification with the name and password of a registered EDB user.

[edb]

name=EnterpriseDB RPMs \$releasever - \$basearch

baseurl=https://<username>:

<password>@yum.enterprisedb.com/edb/redhat/rhel-\$releasever-\$basearch

enabled=1

gpgcheck=1

gpgkey=file:///etc/pki/rpm-gpg/ENTERPRISEDB-GPG-KEY

Installing the MongoDB Foreign Data Wrapper

After saving your changes to the configuration file, use the following command to install the MongoDB Foreign Data Wrapper:

dnf install edb-as<xx>-mongo_fdw

where xx is the server version number.

When you install an RPM package that is signed by a source that is not recognized by your system, yum may ask for your permission to import the key to your local server. If prompted, and you are satisfied that the packages come from a trustworthy source, enter y, and press Return to continue.

During the installation, yum may encounter a dependency that it cannot resolve. If it does, it will provide a list of the required dependencies that you must manually resolve.

Installing the MongoDB Foreign Data Wrapper on a Debian or Ubuntu Host

To install the MongoDB Foreign Data Wrapper on a Debian or Ubuntu host, you must have credentials that allow access to the EDB repository. To request credentials for the repository, visit the EDB website.

The following steps will walk you through using the EDB apt repository to install a Debian package. When using the commands, replace the username and password with the credentials provided by EDB.

1. Assume superuser privileges:

sudo su -

2. Configure the EDB repository:

On Debian 9 and Ubuntu:

sh -c 'echo "deb https://username:password@apt.enterprisedb.com/\$(lsb_release -cs)-edb/ \$(lsb_release -cs) main" > /etc/apt/sources.list.d/edb-\$(lsb_release -cs).list'

On Debian 10:

1. Set up the EDB repository:

sh -c 'echo "deb [arch=amd64] https://apt.enterprisedb.com/\$(lsb_release -cs)-edb/ \$(lsb_release -cs) main" > /etc/apt/sources.list.d/edb-\$(lsb_release -cs).list'

1. Substitute your EDB credentials for the username and password in the following command:

sh -c 'echo "machine apt.enterprisedb.com login <username> password <password>" > /etc/apt/auth.conf.d/edb.conf'

3. Add support to your system for secure APT repositories:

apt-get install apt-transport-https

4. Add the EDB signing key:

wget -q -O - https://<username>:<password>@apt.enterprisedb.com/edb-deb.gpg.key | apt-key add -

5. Update the repository metadata:

apt-get update

6. Install the Debian package:

apt-get install edb-as<xx>-mongo-fdw

where xx is the server version number.

5 Features of the MongoDB Foreign Data Wrapper

The key features of the MongoDB Foreign Data Wrapper are listed below:

Writable FDW

The MongoDB Foreign Data Wrapper allows you to modify data on a MongoDB server. Users can INSERT, UPDATE and DELETE data in the remote MongoDB collections by inserting, updating and deleting data locally in foreign tables. See also:

Example: Using the MongoDB Foreign Data Wrapper <example_using_the_mongo_data_adapter>

Data Type Mappings

Where Clause Push-down

MongoDB Foreign Data Wrapper allows the push-down of WHERE clause only when clauses include comparison expressions that have a column and a constant as arguments. WHERE clause push-down is not supported where constant is an array.

Connection Pooling

Mongo_FDW establishes a connection to a foreign server during the first query that

uses a foreign table associated with the foreign server. This connection is kept and reused for subsequent queries in the same session.

Automated Cleanup

The MongoDB Foreign Data Wrapper allows the cleanup of foreign tables in a single operation using the DROP EXTENSION command. This feature is especially useful when a foreign table has been created for a temporary purpose, as in the case of data migration. The syntax of a DROP EXTENSION command is:

DROP EXTENSION mongo_fdw CASCADE;

For more information, see DROP EXTENSION.

6 Configuring the MongoDB Foreign Data Wrapper

Before using the MongoDB Foreign Data Wrapper, you must:

- 1. Use the CREATE EXTENSION command to create the MongoDB Foreign Data Wrapper extension on the Postgres host.
- 2. Use the CREATE SERVER command to define a connection to the MongoDB server.
- 3. Use the CREATE USER MAPPING command to define a mapping that associates a Postgres role with the server.
- 4. Use the CREATE FOREIGN TABLE command to define a table in the Postgres database that corresponds to a database that resides on the MongoDB cluster.

CREATE EXTENSION

Use the CREATE EXTENSION command to create the mongo_fdw extension. To invoke the command, use your client of choice (for example, psql) to connect to the Postgres database from which you will be querying the MongoDB server, and invoke the command:

CREATE EXTENSION [IF NOT EXISTS] mongo_fdw [WITH] [SCHEMA schema_name];

Parameters

IF NOT EXISTS

Include the IF NOT EXISTS clause to instruct the server to issue a notice instead of throwing an error if an extension with the same name already exists.

schema name

Optionally specify the name of the schema in which to install the extension's objects.

Example

The following command installs the MongoDB foreign data wrapper:

CREATE EXTENSION mongo_fdw;

For more information about using the foreign data wrapper CREATE EXTENSION command, see:

https://www.postgresql.org/docs/current/static/sql-createextension.html.

CREATE SERVER

Use the CREATE SERVER command to define a connection to a foreign server. The syntax is:

CREATE SERVER server_name FOREIGN DATA WRAPPER mongo_fdw [OPTIONS (option 'value' [, ...])]

The role that defines the server is the owner of the server; use the ALTER SERVER command to reassign ownership of a foreign server. To create a foreign server, you must have USAGE privilege on the foreign-data wrapper specified in the CREATE SERVER command.

Parameters

server name

Use <u>server_name</u> to specify a name for the foreign server. The server name must be unique within the database.

FOREIGN DATA WRAPPER

Include the FOREIGN_DATA_WRAPPER clause to specify that the server should use the mongo fdw foreign data wrapper when connecting to the cluster.

OPTIONS

Use the OPTIONS clause of the CREATE SERVER command to specify connection information for the foreign server object. You can include:

Option	Description
address	The address or hostname of the Mongo server. The default value is 127.0.0.1.
port	The port number of the Mongo Server. Valid range is 0 to 65535. The default value is 27017.
authentication_database	The database against which user will be authenticated. This option is only valid with password based authentication.
replica_set	The replica set the server is member of. If it is set, the driver will auto-connect to correct primary in the replica set when writing.
read_preference	The order of read preference. Options available are: primary [default], secondary, primaryPreferred, secondaryPreferred, and nearest.
ssl	Requests an authenticated, encrypted SSL connection. By default, the value is set to false. Set the value to true to enable ssl. See http://mongoc.org/libmongoc/current/mongoc_ssl_opt_t.html to understand the options.
pem_file	SSL option
pem_pwd	SSL option.
ca_file	SSL option
ca_dir	SSL option
crl_file	SSL option
weak_cert_validation	SSL option

Example

The following command creates a foreign server named mongo_server that uses the mongo_fdw foreign data wrapper to connect to a host with an IP address of 127.0.0.1:

CREATE SERVER mongo_server FOREIGN DATA WRAPPER mongo_fdw OPTIONS (host '127.0.0.1', port '27017');

The foreign server uses the default port (27017) for the connection to the client on the MongoDB cluster.

For more information about using the CREATE SERVER command, see:

https://www.postgresql.org/docs/current/static/sql-createserver.html

CREATE USER MAPPING

Use the CREATE USER MAPPING command to define a mapping that associates a Postgres role with a foreign server:

```
CREATE USER MAPPING FOR role_name SERVER server_name [OPTIONS (option 'value' [, ...])];
```

You must be the owner of the foreign server to create a user mapping for that server.

Parameters

role name

Use role name to specify the role that will be associated with the foreign server.

server_name

Use server_name to specify the name of the server that defines a connection to the MongoDB cluster.

OPTIONS

Use the OPTIONS clause to specify connection information for the foreign server.

username: the name of the user on the MongoDB server.

password: the password associated with the username.

Example

The following command creates a user mapping for a role named enterprisedb; the mapping is associated with a server named mongo_server:

CREATE USER MAPPING FOR enterprised SERVER mongo server;

If the database host uses secure authentication, provide connection credentials when creating the user mapping:

CREATE USER MAPPING FOR enterprised SERVER mongo_server OPTIONS (username 'mongo_user', password 'mongo_pass');

The command creates a user mapping for a role named enterprisedb that is associated with a server named mongo server. When connecting to the MongoDB server, the server will authenticate as mongo_user, and provide a password of mongo_pass.

For detailed information about the CREATE USER MAPPING command, see:

https://www.postgresql.org/docs/current/static/sql-createusermapping.html

CREATE FOREIGN TABLE

A foreign table is a pointer to a table that resides on the MongoDB host. Before creating a foreign table definition on the Postgres server, connect to the MongoDB server and create a collection; the columns in the table will map to columns in a table on the Postgres server. Then, use the CREATE FOREIGN TABLE command to define a table on the Postgres server with columns that correspond to the collection that resides on the MongoDB host. The syntax is:

where column_constraint is:

```
[ CONSTRAINT constraint_name ] { NOT NULL | NULL | CHECK (expr) [ NO INHERIT ] | DEFAULT default_expr }
```

and table_constraint is:

```
[ CONSTRAINT constraint_name ] CHECK (expr) [ NO INHERIT ]
```

Parameters

table name

Specifies the name of the foreign table; include a schema name to specify the schema in which the foreign table should reside.

IF NOT EXISTS

Include the IF NOT EXISTS clause to instruct the server to not throw an error if a table with the same name already exists; if a table with the same name exists, the server will issue a notice.

column_name

Specifies the name of a column in the new table; each column should correspond to a column described on the MongoDB server.

data_type

Specifies the data type of the column; when possible, specify the same data type for each column on the Postgres server and the MongoDB server. If a data type with the same name is not available, the Postgres server will attempt to cast the data type to a type compatible with the MongoDB server. If the server cannot identify a compatible data type, it will return an error.

COLLATE collation

Include the COLLATE clause to assign a collation to the column; if not specified, the column data type's default collation is used.

INHERITS (parent table [, ...])

Include the INHERITS clause to specify a list of tables from which the new foreign table automatically inherits all columns. Parent tables can be plain tables or foreign tables.

CONSTRAINT constraint name

Specify an optional name for a column or table constraint; if not specified, the server will generate a constraint name.

NOT NULL

Include the **NOT NULL** keywords to indicate that the column is not allowed to contain null values.

NULL

Include the NULL keywords to indicate that the column is allowed to contain null values. This is the default.

CHECK (expr) [NO INHERIT]

Use the CHECK clause to specify an expression that produces a Boolean result that each row in the table must satisfy. A check constraint specified as a column constraint should reference that column's value only, while an expression

appearing in a table constraint can reference multiple columns.

A CHECK expression cannot contain subqueries or refer to variables other than columns of the current row.

Include the NO INHERIT keywords to specify that a constraint should not propagate to child tables.

DEFAULT default expr

Include the **DEFAULT** clause to specify a default data value for the column whose column definition it appears within. The data type of the default expression must match the data type of the column.

```
SERVER server name [OPTIONS (option 'value' [, ...])]
```

To create a foreign table that will allow you to query a table that resides on a MongoDB file system, include the SERVER clause and specify the server_name of the foreign server that uses the MongoDB data adapter.

Use the OPTIONS clause to specify the following options and their corresponding values:

```
option value

database The name of the database to query. The default value is test.

collection The name of the collection to query. The default value is the foreign table name.
```

Example

To use data that is stored on MongoDB server, you must create a table on the Postgres host that maps the columns of a MongoDB collection to the columns of a Postgres table. For example, for a MongoDB collection with the following definition:

```
}
```

You should execute a command on the Postgres server that creates a comparable table on the Postgres server:

```
CREATE FOREIGN TABLE warehouse

(
_id NAME,
warehouse_id INT,
warehouse_name TEXT,
warehouse_created TIMESTAMPZ
)

SERVER mongo_server
OPTIONS (database 'db', collection 'warehouse');
```

The first column of the table must be <u>_id</u> of the type <u>name</u>.

Include the SERVER clause to specify the name of the database stored on the MongoDB server and the name of the table (warehouse) that corresponds to the table on the Postgres server.

For more information about using the CREATE FOREIGN TABLE command, see:

https://www.postgresql.org/docs/current/static/sql-createforeigntable.html

Note

MongoDB foreign data wrapper supports the write capability feature.

Data Type Mappings

When using the foreign data wrapper, you must create a table on the Postgres server that mirrors the table that resides on the MongoDB server. The MongoDB data wrapper will automatically convert the following MongoDB data types to the target Postgres type:

MongoDB (BSON Type)	Postgres
ARRAY JSON BOOL BOOL	
BINARY BYTE	A
DATE_TIME DATE DOCUMENT JSON	/TIMESTAMP/TIMESTAMPTZ
DOUBLE FLOA	T/FLOAT4/FLOAT8/DOUBLE PRECISION/NUMERIC

MongoDB (BSON Type)	Postgres
INT32 SMAL	LINT/INT2/INT/INTEGER/INT4
INT64 BIGI OID NAME	NT/INT8
UTF8 BPCH	AR/VARCHAR/CHARCTER VARYING/TEXT

7 Example: Using the MongoDB Foreign Data Wrapper

Before using the MongoDB foreign data wrapper, you must connect to your database with a client application. The following examples demonstrate using the wrapper with the psql client. After connecting to psql, you can follow the steps in the example below:

```
-- load extension first time after install
CREATE EXTENSION mongo_fdw;
-- create server object
CREATE SERVER mongo_server
     FOREIGN DATA WRAPPER mongo fdw
     OPTIONS (address '127.0.0.1', port '27017');
-- create user mapping
CREATE USER MAPPING FOR postgres
     SERVER mongo server
     OPTIONS (username 'mongo user', password 'mongo pass');
-- create foreign table
CREATE FOREIGN TABLE warehouse
    (
      id name,
      warehouse id int,
      warehouse name text,
      warehouse created timestamptz
     SERVER mongo server
     OPTIONS (database 'db', collection 'warehouse');
-- Note: first column of the table must be " id" of type "name".
```

```
-- select from table
SELECT * FROM warehouse WHERE warehouse_id = 1;
                | warehouse_id | warehouse_name | warehouse_created
53720b1904864dc1f5a571a0 |
                                    1 | UPS
                                                 | 2014-12-12 12:42:10+05:30
(1 row)
db.warehouse.find
    {
       "warehouse_id" : 1
).pretty()
    "_id": ObjectId("53720b1904864dc1f5a571a0"),
    "warehouse id": 1,
    "warehouse_name": "UPS",
    "warehouse_created": ISODate("2014-12-12T07:12:10Z")
}
-- insert row in table
INSERT INTO warehouse VALUES (0, 2, 'Laptop', '2015-11-11T08:13:10Z');
db.warehouse.insert
       "warehouse_id": NumberInt(2),
       "warehouse_name": "Laptop",
       "warehouse_created": ISODate("2015-11-11T08:13:10Z")
    }
-- delete row from table
DELETE FROM warehouse WHERE warehouse_id = 2;
db.warehouse.remove
    {
       "warehouse id": 2
-- update a row of table
```

```
UPDATE warehouse SET warehouse name = 'UPS NEW' WHERE warehouse id =
1;
db.warehouse.update
    {
      "warehouse id": 1
    },
      "warehouse id": 1,
      "warehouse_name": "UPS_NEW",
      "warehouse created": ISODate("2014-12-12T07:12:10Z")
    }
-- explain a table
EXPLAIN SELECT * FROM warehouse WHERE warehouse id = 1;
               QUERY PLAN
Foreign Scan on warehouse (cost=0.00..0.00 rows=1000 width=84)
 Filter: (warehouse id = 1)
 Foreign Namespace: db.warehouse
(3 rows)
-- collect data distribution statistics
ANALYZE warehouse:
```

8 Identifying the MongoDB Foreign Data Wrapper Version

The MongoDB Foreign Data Wrapper includes a function that you can use to identify the currently installed version of the .so file for the data wrapper. To use the function, connect to the Postgres server, and enter:

```
SELECT mongo_fdw_version();
```

The function returns the version number:

mongo_fdw_version

<xxxxx>