FTP To Database Integration

Overview

In this article, you will learn how to transfer data from a file, residing in an FTP server, to a table in a database. First, you will see a data map. Then, you will learn the preliminary steps necessary to prepare a database. Finally, you will see how to create your integration.

Data Map

In this case, we are matching data, from a file, to the data in a database. There is no specific requirement on names. All that is necessary is that the columns, belonging to a table in the database, must be mapped by the user to the columns defined in the file. For example, the below table matches the columns of a table named Account (see below Preliminary Steps) with the fields in the file.

File	Database
AccountID	AccountID
AccountName	AccountName
BillingStreet	BillingStreet
BillingPostalCode	BillingPostalCode
AnnualRevenue	AnnualRevenue
CreatedDate	CreatedDate
LastModifiedDate	LastModifiedDate
NumberOfOfficeLocations	NumberOfOfficeLocations

Example

The following is an example of a file that can be transferred to a database:

myExample.csv - Notepad

File Edit Format View Help

```
1234,John Doe,"3 Albert Street, Boston",2456,300,2018-03-03,2018-03-03 00:00:00,2
2345,Sue Martins,"3 Bellairs Drive, Boston",2457,4000,2018-06-06,2018-07-07 00:00:00,3
```

After the transfer, you should have the following data in your database:

AccountID	AccountName	BillingStreet	BillingPostalCode	AnnualRevenue	CreatedDate	LastModifiedDate	NumberOfOfficeLocations
2345	Sue Martins	3 Bellairs Drive, Boston	2457	4000.00	2018-06-06	2018-07-07 00:00:00	3
1234	John Doe	3 Albert Street, Boston	2456	300.00	2018-03-03	2018-03-03 00:00:00	2

Preliminary Steps (Database preparation):

1. Setup your Database for Integration (For this Tutorial, I will be using MySQL Database named "**Accounts**".)
2. Create a Table "**dbAccount**" in Database. The scripts below show how to do it for MySQL, SQLSERVER and Oracle databases.
3. Once you have created the table, insert some dummy values in it.

Database Script : MYSQL	**Database Script** : SQLSERVER	D
`create table `Accounts`.`dbAccount` (`AccountID` varchar(100) NOT NULL , `AccountName` text NOT NULL , `BillingStreet` text , `BillingPostalCode` numeric(20) , `AnnualRevenue` decimal(30,2) , `CreatedDate` date , `LastModifiedDate` datetime , `NumberOfOfficeLocations` int , PRIMARY KEY (`AccountID`) );`	`create table dbAccount (AccountID varchar(100) NOT NULL , AccountName text NOT NULL , BillingStreet text , BillingPostalCode numeric(20) , AnnualRevenue decimal(30,2) , CreatedDate date , LastModifiedDate datetime , NumberOfOfficeLocations int , PRIMARY KEY (AccountID) );`	

MYSQL:

```
create table `Accounts`.`dbAccount`

(`AccountID` varchar(100) NOT NULL
,
`AccountName` text NOT NULL ,
`BillingStreet` text ,
`BillingPostalCode` numeric(20) ,
`AnnualRevenue` decimal(30,2) ,
`CreatedDate` date ,
`LastModifiedDate` datetime ,
`NumberOfOfficeLocations` int ,
PRIMARY KEY (`AccountID`) );
```

SQLSERVER:

```
create table dbAccount

(AccountID varchar(100)
NOT NULL ,
AccountName text NOT NULL
,
BillingStreet text ,
BillingPostalCode
numeric(20) ,
AnnualRevenue
decimal(30,2) ,
CreatedDate date ,
LastModifiedDate datetime
,
NumberOfOfficeLocations
int ,
PRIMARY KEY (AccountID)
);
```

Creating Integration

Once you have your database ready, perform the following steps:

1. Go to www.mydbsync.com and, click on **CustomerLogin**. Enter your **Username** and **Password** and click on **Development Studio** to open the **Project** console.
2. Create a project with a project, process, workflow. Use the names of your choice.
3. Click on **Connectors** on the left section of Project Console and create a DB and an FTP connector. (Note: Enter the required details in Database and FTP credentials in the fields and validate the connections).
4. Click on **Project ->Process -> Workflow**
5. From the **Workflow** section, proceed to the **Trigger** Section.

6. In the **Triggers** section, you can use three tabs - namely, **Query Builder**, **Advanced Query Builder,** & **Properties**. You need to select data-source as FTP. You can make additional changes to the Query by using the **Advanced View** section of the **Advanced Query Builder**.
7. In the **Rules** section, select target connector as "Database", operation, target object respectively.
8. Click on Map to see the Mapping screen. You will see a list of Database fields in the left section. In the right section, in Schema, you see a list of selected File columns.
9. Drag & drop the fields from Schema next to the required Database fields. Click on Save and Close once the mapping is completed. Now, click on Save Workflow.
10. Ensure that Workflow status is On.
11. You are now ready to run the sync. Click on the **Run** Button on the Top Right corner of the page.
12. After successful sync, open the log and the table. Check and make sure that the data has been rightly inserted into the database table.