Insertion des Categories dans la table Category

Import des bibliothèques

Entrée [ ]:

```
from lxml import etree
import pandas as pd
import mysql.connector
from mysql.connector import Error
import re
```

Parsage du catalogue REF

Entrée [ ]:

```
# à modifier avant chaque traitement d'un nouveau fichier XML
refPath = 'unzipped_files/cat-ref-FR3787ED_2019-11-22 11.30.32-22-11-2019_11-48-22

xtree = etree.parse(refPath)
xroot = xtree.getroot()
```

Génération d'un dataframe

Entrée [ ]:

```
df_cols = ["code", "description", "parent"]
rows = []

for i,ec in enumerate(xroot.iter('category')):
    # recherche le code du parent de chaque élément category
    ec.attrib['cat_parent'] = str(ec.getparent().get('code'))
    # ajout à la liste du dict décrivant l'élément category
    rows.append({"code": ec.attrib['code'], "description": ec.attrib['description'
# transformation de la liste en dataframe
df_category = pd.DataFrame(rows, columns=df_cols)
df_category
```

Insertion des données du dataframe dans la table Category

Entrée [ ]:

```
connection_config = {
                     'host':"localhost",
                     'port': 3308,
                     'database': 'bihr_db',
                     'user': 'BASTIER',
                     'passwd': "DA2019",
                     #'autocommit': True
                     }
```

Entrée [ ]:

```
try:
    connection = mysql.connector.connect(**connection_config)

    for i in range(len(df_category)):
        cat = df_category.iloc[i]
        if cat['parent'] == 'None':
            cat['parent'] = 0
        # on échappe les apostrophes
        description = cat['description']
        description = description.replace("'"," ")

        categoryInsertQuery = """INSERT INTO category (categoryId, DESCRIPTION, PA
                           VALUES
                           (""" + str(cat['code']) + """,'"""+ str(description) +
        cursor = connection.cursor()
        result = cursor.execute(categoryInsertQuery)

    connection.commit()
    print("Insertion datas in Category table successfully ")
    cursor.close()

except mysql.connector.Error as error:
    print("Failed to insert datas in Category table : {}".format(error))

finally:
    if (connection.is_connected()):
        cursor.close()
        connection.close()
        print("MySQL connection is closed")
```

Entrée [ ]:

```
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```