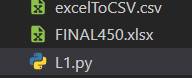
BDA-LAB01

-Jainil Trivedi (CE166)

**Tasks**

1. **Given the spreadsheet file convert it into a csv**



Code:

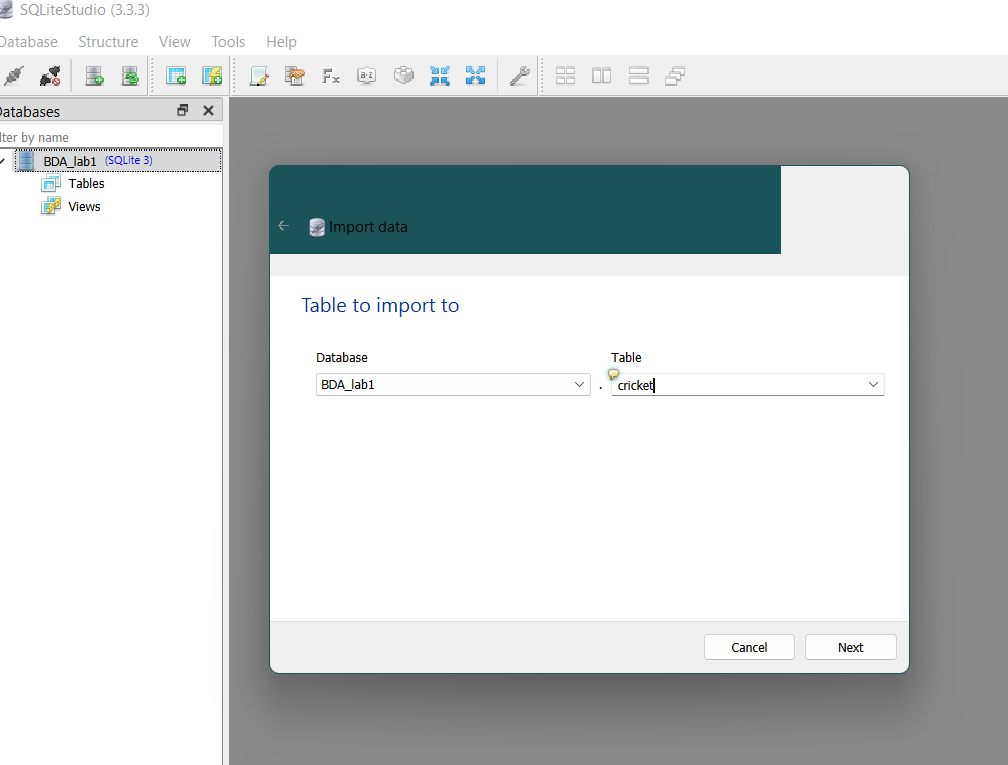
import pandas as pd

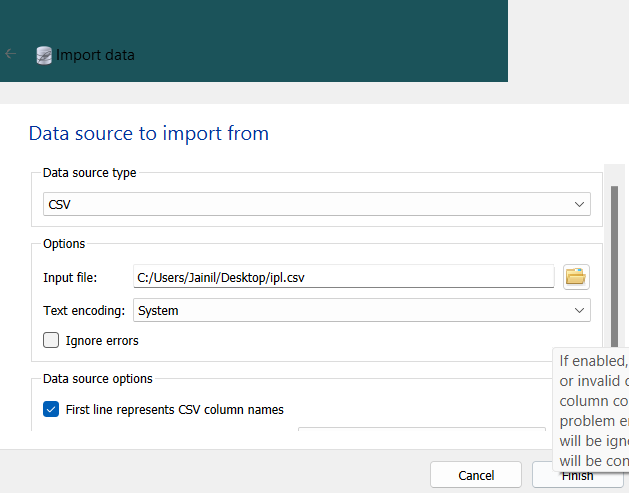
excel = pd.read\_excel('FINAL450.xlsx')

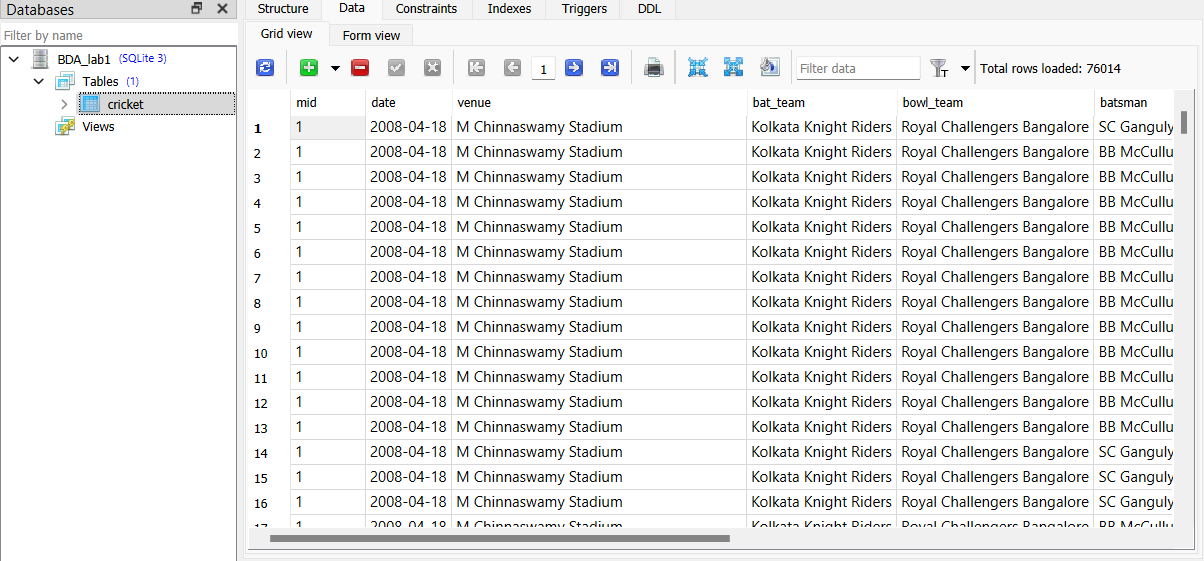
df = pd.DataFrame(excel)

df.to\_csv("excelToCSV.csv",index=False)

1. **Import a csv into MySQL database table**

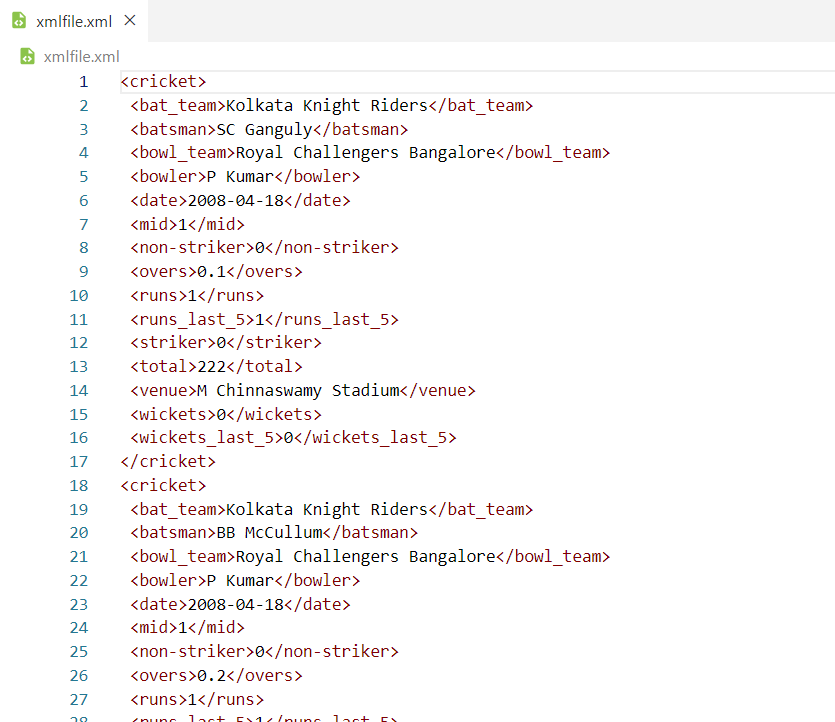
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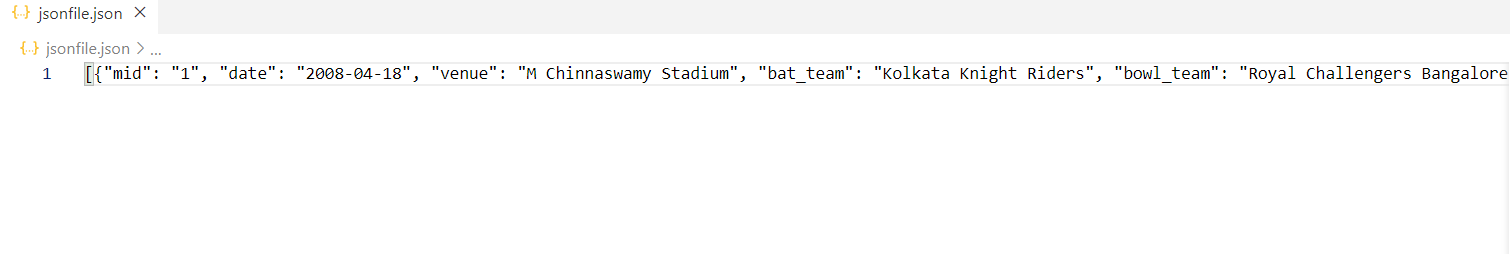
****

1. **Write a computer program to read records from database and generate data file.**

**=> XML**

****

* **JSON**



import sqlite3

import json

from textwrap import wrap

from dict2xml import dict2xml as xmlify

conn = sqlite3.connect("C:\\Users\\Jainil\\Downloads\\SQLiteStudio\\BDA\_lab1")

cur = conn.cursor()

cur.execute('SELECT \* FROM cricket')

columns = list(map(lambda x:x[0],cur.description))

records = cur.fetchall()

record\_list = []

for record in range(0,len(records)):

    record\_dict = {}

    for column in range(0,len(columns)):

        record\_dict[columns[column]] = records[record][column]

    record\_list.append(record\_dict)

json\_obj = json.dumps(record\_list)

xml\_boj = xmlify(record\_list,wrap='cricket',indent=" ")

json\_file = open("jsonfile.json","w")

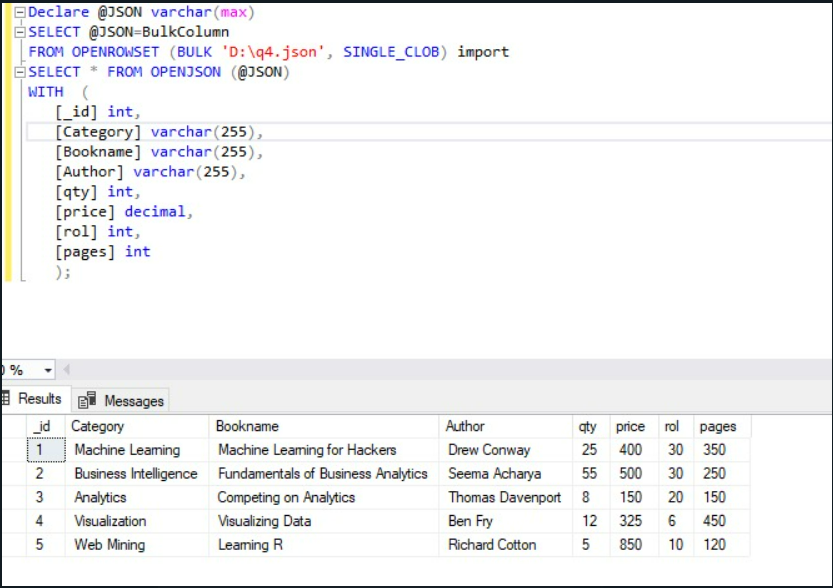
json\_file.write(json\_obj)

xml\_file = open("xmlfile.xml","w")

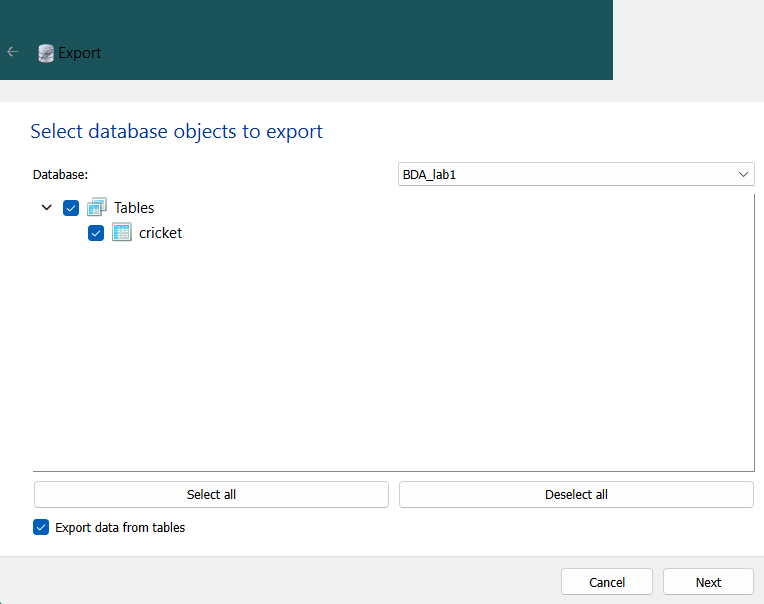
xml\_file.write(xml\_boj)

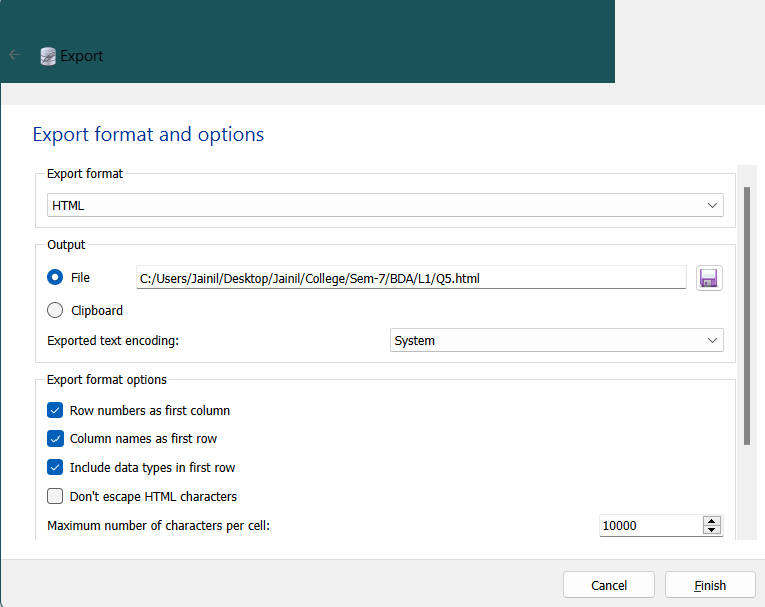
conn.close()

1. **Import XML/JSON file into another database/table. i.e, MS Access. Oracle, etc.**

****

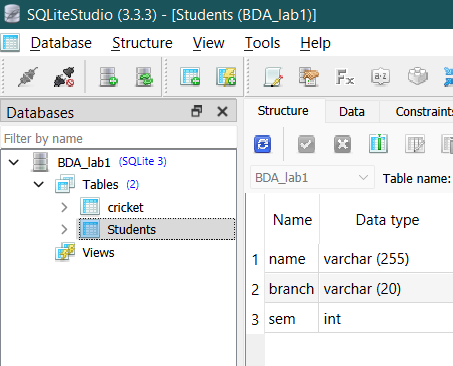
1. **Export database dump for data migration/archival**

****

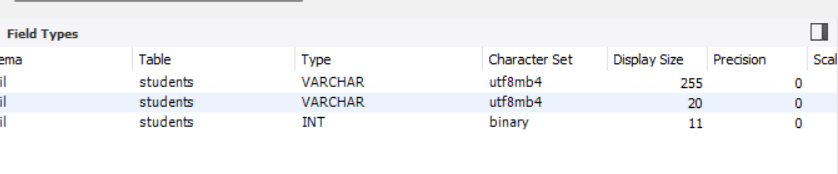
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1. **Validate/Map data types across different database systems when migrating from one to another**

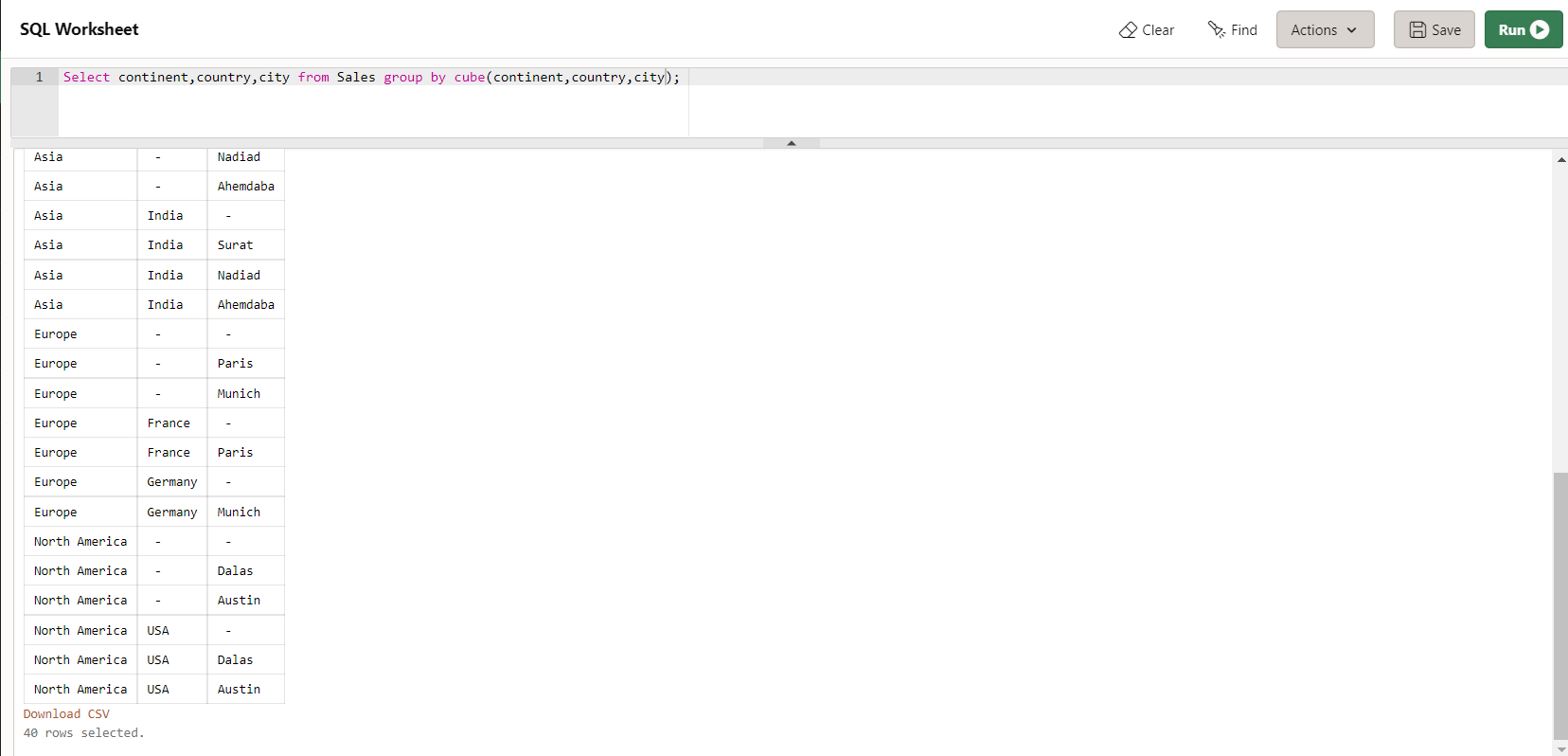
In SqliteStudio

****

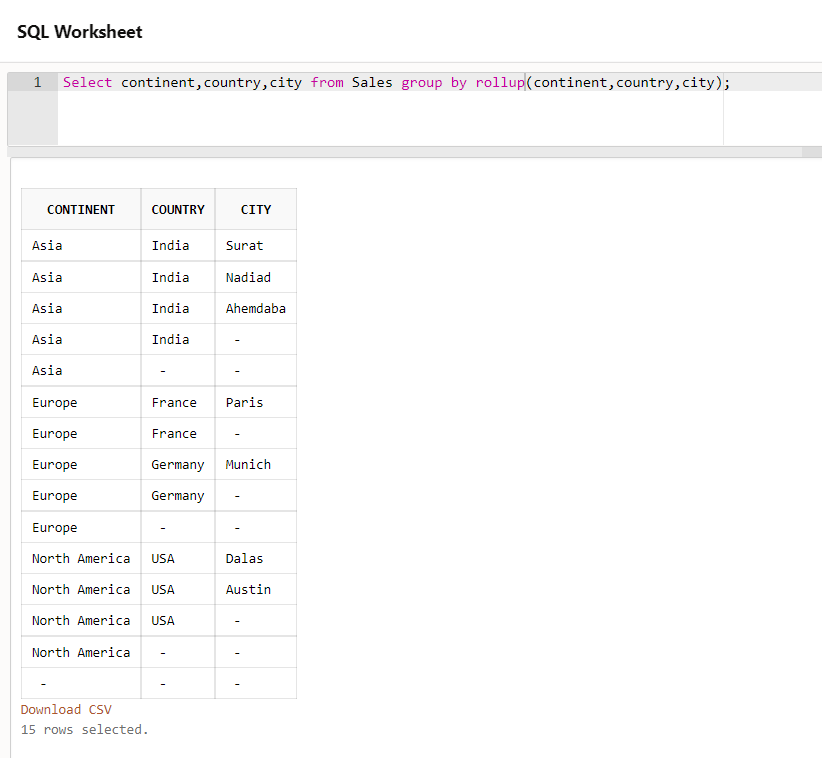
In mysql

****

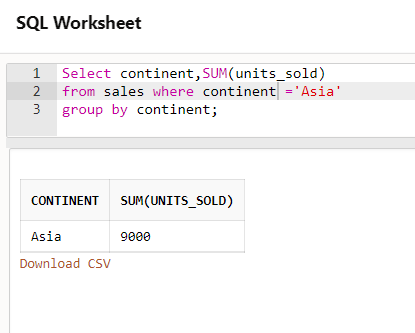
1. **Represent Data Cube and perform operations. OLAP - Data Warehouse**
2. **Cube**

****

1. **Roll up**

****

1. **Slice**

****

1. **Dice**

****

1. **Generate pdf report/ Use any visualization tool. i.e., pie chart, maps.**

import pandas as pd

import matplotlib.pyplot as plt

ds = pd.read\_csv("Q8.csv")

topic = ds['Topic']

questions = ds['Questions']

x=list(topic)

y=list(questions)

plt.legend('topic','solved')

plt.pie(y,labels=x,autopct='%.2f%%')

plt.savefig("piechart\_Q8.pdf",format="pdf")

